General Catalog
2014-2015



Salt Lake Community College

Step Ahead.

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DISCLAIMER

This catalog applies to new students entering Salt Lake Community College in the 2014-2015 academic year and returning Salt Lake Community College students whose governing catalog has expired. Individuals with specific questions about this policy should see the admissions officer or the appropriate academic administrator for their program of study.

The catalog contains information concerning academic programs, course descriptions, tuition and fees, policies, and general information about Salt Lake Community College in existence at the time of this publication's deadline, December 1, 2014.

Information in this catalog is subject to change and Salt Lake Community College reserves the right to make any necessary revisions in the information contained here without notice. The College further reserves the right to add, amend, or repeal any rules, regulations, policies, and procedures as provided by law.

This catalog is for information purposes only and does not constitute a contract between the student and the College.

A MESSAGE FROM INTERIM PRESIDENT HUFTALIN



Wow. It's the first word that comes to mind when I consider that you are among more than 60,000 students this year who have chosen to attend Salt Lake Community College to further their higher education goals, improve upon their careers, or engage in lifelong learning. It's truly an honor to count you among our ranks of courageous students who are sacrificing their valuable time toward their commitment to better their personal and professional lives.

This catalog can answer many of your questions about academic programs and course offerings covering over 120 areas of study from accounting and biology to welding and yoga. Please take advantage of the resources the College provides. Explore this catalog, visit us online at http://www.slcc.edu, stop by one of our 10 convenient locations, or contact any of our dedicated, helpful staff.

Congratulations on choosing a premier, comprehensive community college that is a perennial national leader in awarding associate degrees and an institution that has maintained an open-enrollment policy since its inception in 1948.

May your journey among our halls and classrooms help you reach your goals and dreams!

Sincerely,

Deneece G. Huftalin

Dr. Deneece Huftalin

SLCC AT A GLANCE

ACCREDITATION

Salt Lake Community College is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities in not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities
8060 165th Avenue N.E., Suite 100
Redmond, WA 98052 (425) 558-4224 www.nwccu.org

PROGRAMS

SLCC offers more than 100 degree programs, as well as continuing education, apprenticeships, non-credit and other options to help students achieve their educational objectives.

OFFERINGS

- Associate of Arts Degree (AA)
- Associate of Science Degree (AS)
- Associate of Pre-Engineering (APE)
- Associate of Applied Science Degree (AAS)
- Diploma
- Certificate of Completion
- Certificate of Proficiency
- Certificate of Achievement

STUDENT BODY PROFILE

Based on Fall Semester 2013, third week figures:

25,456 Headcount
14,715 Full-Time Equivalent (FTE)

96% Utah Residents
4% Non-Residents

33% Freshmen
67% Sophomores

49% Male
51% Female

2% Veterans

67.0% Caucasian
13.6% Hispanic
8.6% Unknown/Unreported
4.8% Asian/Pacific Islander
2.1% African American
0.8% American Indian/Alaskan Native
1.2% Non-Resident Alien
1.9% More than one race

Average Student Age: 26.50 years old

Student to Faculty Ratio: 20:1

Number of Graduates: 4,049 students graduated during the 2012-2013 school year

COLLEGE OVERVIEW

Salt Lake Community College is an accredited, multi-campus college serving the diverse needs of the Salt Lake County community. With an open-door enrollment policy, the College serves more than 60,000 students through credit and non-credit courses and workshops each year. It is the seventh most prolific producer of Associate's degrees in the country.

To accommodate student needs, SLCC has ten locations plus SLCC Online that allows students to take classes virtually anywhere. Courses are offered in both traditional and accelerated semesters, during the day, at night, and on weekends. Students receive personal attention from faculty as the College maintains an average student-to-faculty ratio of 20 to 1.

The College has established active partnerships with more than 500 local businesses and school districts to provide skills training, professional development, and academic programs to current and future employees. SLCC plays a key role in building Utah's economy by anticipating future needs and preparing a skilled workforce able to manage ever-changing technologies.

Students also benefit from distance learning. SLCC offers a broad range of courses via distance learning formats, with almost half of these distance-delivered sections being taught completely online. More than 15 percent of SLCC course sections are online classes and more than 7,000 SLCC students take at least one online course each semester.

Salt Lake Community College has initiated and developed an education/business partnership that provides a two-year scholarship to students and work opportunities for students. Called the "PACE," (Partnerships for Accessing College Education) program, this unique partnership between local secondary school systems, local businesses, and the College is an incentive program that provides high school students with opportunities for employment during summer recesses and potential internships during their academic years. High school students involved in the program who complete the PACE criteria and graduate in eight consecutive academic terms will receive full two-year academic scholarships to attend Salt Lake Community College.

The Center for New Media will soon open its doors at the South City Campus. In partnership with Salt Lake School District's Career and Technical Education, this innovative building will accommodate more than 7,000 students—including nearly 2,000 Applied Technology students.

The Instructional and Administration Building is also currently under construction at the Taylorsville Redwood Campus. The majority of the space in this building—75,000 of its 136,000 total square feet—will be devoted to instruction. The flexible and dynamic student spaces in this facility will foster interdisciplinary learning. Once completed, the Instructional and Administrative Building will replace the current Administration Building and allow the College to adhere to the seismic and safety standards that are part of the College's overall facilities master plan.

Salt Lake Community College is one of this state's most important engines for driving the economy. Higher earnings of SLCC students and associated increases in state income expand Utah's tax base by $153.7 million dollars annually. Higher tax receipts and avoided governmental costs result in a cumulative value of $171.2 million in benefits over the course of students' working careers. Skills acquired by SLCC students translate to higher earnings for students and increased output of businesses; added income attributable to the accumulation of SLCC credits in the workforce amounts to $840 million annually.

SLCC VISION STATEMENT

Salt Lake Community College will be the premier comprehensive community college in the nation.

SLCC MISSION STATEMENT

Salt Lake Community College is a public, open-access, comprehensive community college committed to serving the broader community. Its mission is to provide quality higher education and lifelong learning to people of diverse cultures, abilities, and ages, and to serve the needs of community and government agencies, business, industry, and other employers.

The College fulfills its mission by:

- offering associate degrees, certificate programs, career and technical education, developmental education, transfer education, and workforce training to prepare individuals for career opportunities and an enriched lifetime of learning and growing;
- offering programs and student support services that provide students opportunities to acquire knowledge and critical thinking skills, develop self-confidence, experience personal growth, and value cultural enrichment;
- maintaining an environment committed to teaching and learning, collegiality, and the respectful and vigorous dialogue that nourishes active participation and service in a healthy democracy.

COLLEGE-WIDE UNIFIED LEARNING OUTCOMES

1. Acquire substantive knowledge in their intended major and throughout General Education
2. Communicate effectively
3. Develop quantitative literacies necessary for their chosen field of study
4. Think critically and creatively
5. Develop the knowledge and skills to be a community engaged learner and scholar
6. Develop the knowledge and skills to work with others in a professional and constructive manner
7. Develop computer and information literacy
8. Develop the attitudes and skills for lifelong wellness

STRATEGIC PRIORITIES

I. Enhance Quality Higher Education
II. Improve Student Access and Success
III. Advance a Culture of Evidence and Accountability
IV. Strengthen Institutional Support
V. Advance Partnerships/Relationships with the Community and Business

SLCC CORE THEMES

ACCESS AND SUCCESS

- Provide accessible instructional programs and student services
- Provide access to students underrepresented in higher education
- Provide access to students underprepared for higher education
- Support students to become successful and engaged learners

TRANSFER EDUCATION

- Prepare students with a foundation for success in continued studies
- Provide the first two years of articulated major courses (AA, APE, and AS degrees)
- Provide students a comprehensive and integrated General Education experience

WORKFORCE EDUCATION

- Prepare students with knowledge and skills meeting current industry needs
- Provide specialized training for business and industry
- Provide integrated pathways for academic and career mobility/advancement

COMMUNITY ENGAGEMENT

- Contribute to economic and community development
- Champion diversity and cultural enrichment in the community and the College
- Provide community service and involvement opportunities

ACADEMIC POLICIES & PROCEDURES

ADMISSIONS

ADMISSION POLICY

SLCC welcomes students for admission to any course of study for which they're qualified, without regard to age, marital status, race, color, creed, gender, sexual orientation, national origin, disability, or status as a disabled veteran. Applicants will only be admitted to credit programs at Salt Lake Community College if they have earned either a state- recognized high school diploma, a state-issued General Education Diploma (GED), or an associate degree or higher from a regionally accredited institution. Applicants who have not earned one of these credentials may only be admitted to College credit programs if the Accuplacer, ACT, or SAT exams place the student into college-level coursework (ENGL 1010 or higher and MATH 1010 or higher); exam scores must be less than one year old for English and less than one year old for math. For more information on testing for non-high school graduates applying for admission to SLCC, please see "Testing for Non-High School Graduates Applying for Admission."

Applicants without a high school credential or college-level test scores may participate in non-credit programs through the School of Applied Technology (SAT) or Continuing Education with no restrictions. Federal financial aid is not available to individuals who start a program of study and do not have a state-recognized high school diploma or state-issued GED.

Salt Lake Community College reserves the right to audit for accuracy self-reports of high school, GED, or associate degree or higher completion. Providing false information may result in denial of admission and/or financial aid.

Health Sciences programs have additional specific selective admission requirements as described under the "Admission to Health Sciences Programs" section.

Students under the age of eighteen who have not or their class has not completed high school must comply with Utah Code Annotated, 53A-11, "Students in Public Schools," and can only be admitted to Salt Lake Community College as a Special Status Student through the Concurrent Enrollment or Early Enrollment programs.

ADMISSION PROCEDURE

MATRICULATED STUDENTS

A matriculated student is one who is working toward the completion of a degree, diploma or certificate of completion, or with the intent to transfer a degree to another institution. Matriculation is a requirement for any student seeking financial aid. To become matriculated, an applicant must do the following:

1. Submit an admission application with a declared program of study by the admission application deadline.
2. Submit a $40 non-refundable application fee when applying.
3. After an application has been processed, the student will receive a letter of acceptance containing an SLCC "student number" (S#) which will be necessary to access MyPage, the official online gateway to all College services including class registration, tuition and fee payment, and BruinMail email. The letter will also contain important information about orientation requirements. Students generally receive this letter within two weeks after the application is submitted.
4. Complete new student orientation. First-time freshmen must complete mandatory new student orientation in order to register for courses.

NON-MATRICULATED STUDENTS

Students not interested in pursuing a degree, diploma, certificate of completion or transfer can be admitted as non-matriculated students. Similar to matriculated applicants, non-matriculated applicants to College credit programs must have earned a state-recognized high school diploma, state-issued GED, or associate degree or higher from a regionally accredited institution. Applicants who have not earned one of these credentials may only be admitted to College credit programs if the Accuplacer, ACT, or SAT exams place the student into college level coursework (ENGL 1010 or higher and MATH 1010 or higher). To apply for this status, submit the admission application as a non-matriculated student and the $40 fee by the admission application deadline. The non-matriculated admission status limits the ability to use credits toward graduation at SLCC; it also prohibits students from receiving financial aid through the College.

Credit earned as a non-matriculated student may not count toward a degree at SLCC unless the student matriculates. No more than 24 credits earned before matriculation can be counted toward a diploma or degree from SLCC; no more than 12 credits can be counted toward a one-year certificate from SLCC.

APPLICATION DEADLINES

Fall and Spring Semester Admission Application deadline dates may be found on the SLCC website under Academic Calendar. These deadlines apply only to SLCC's credit programs and will not affect the College's School of Applied Technology and other noncredit programs—including Continuing Education courses and workshops. Students applying after the deadline are welcome to apply for a future term. Summer semester does not have an Admission Application deadline. Students are strongly encouraged to apply at least 16 weeks before fall semester or 10 weeks before spring or summer semesters to allow time for orientation, advising, and registration.

TRANSFER STUDENTS

Incoming transfer students must apply for admission and submit a $40 nonrefundable application fee. Transfer students who have earned credits at another college or university may be able to use that credit to meet general education or major course requirements in a SLCC program of study. For more information seeTransferring Credit.

WHEN TO RE-APPLY

Application for admission is valid for three years including the semester of admission for all applicants except Concurrent Enrollment and international admission. Students who do not begin classes during their semester of admission but wish to begin a different semester within the three year period must update their application by submitting an Admission Update Application to clarify term of return. Students who have an absence from the College of one year (three semesters) or more will be required to submit, at no charge, an Admission Update Application to declare their semester of return and correct vital information. All Admission Update Applications must be submitted by the admission deadline for the semester. If the three-year admission eligibility period has expired, students must re-apply for admission by the desired semester's application deadline and submit the $40 non-refundable application fee. Upon re-admission, the student's academic program will be posted as the current catalog year, and students must adhere to the graduation requirements in the current General Catalog.

ADMISSION TO HEALTH SCIENCES PROGRAMS

Most SLCC Health Sciences programs have special admission requirements. Students must complete certain prerequisite courses and achieve specific grades before applying to these programs of study, and a select number of applicants will be admitted each year. A separate health sciences admission application form and $25.00 application fee is also required, and most programs require additional testing, documents, and/or processes for applicants. For details, refer to Program Descriptions or visit the Health Sciences Admissions webpage.

ADMISSION TO SCHOOL OF APPLIED TECHNOLOGY PROGRAMS

The School of Applied Technology (SAT) offers non-credit, flexible entry programs that begin weekly or as scheduled throughout the year and accepts applications at any time. The SAT does not require a state-recognized high school diploma, state-issued GED, or associate degree or higher from a regionally accredited institution for admittance to career and vocational programs. Additional information for enrolling in The School of Applied Technology courses/programs can be found at the School of Applied Technology website or by contacting Academic Advising at (801) 957-3361.

SPECIAL STATUS PROGRAMS

Students under the age of eighteen who have not, or their class has not, completed high school must comply with Utah Code Annotated, 53A-11, "Students in Public Schools," and can only be admitted to Salt Lake Community College as a Special Status Student through the Concurrent Enrollment or Early Enrollment programs.

CONCURRENT ENROLLMENT

A concurrent enrollment class is a college-level class offered to high school junior and senior students for high school and college credit. While students earn high school credit, they also earn college credit which is recorded on a permanent College transcript. Through this program, students are able to enroll in certain introductory level SLCC courses offered on their high school campuses during their regular school day.

Courses taught at the high school are the same as courses taught on SLCC campuses. Instructor qualifications, texts, assignments, the number of exams, and grading requirements are all equivalent. College faculty support and supervise these courses and work with the high school teachers as colleagues. Placement Testing is required for some general education classes. In addition, selected Concurrent Enrollment classes are offered on SLCC campuses. In contrast, students who attend SLCC classes as Early Enrollment students do pay tuition and fees.

Students are required to apply for admission to the College and pay the $40 admission application fee. Beginning Summer 2013, students will pay partial tuition of $5.00 per credit hour. For more information, please visit

http://www.slcc.edu/concurrentenrollment.

EARLY ENROLLMENT

Academically qualified high school students pay tuition and attend regular, on-line, and distance education SLCC classes while attending high school through SLCC's Early Enrollment program. Early Enrollment is designed for motivated students who have completed the highest level of coursework offered by the high school, i.e., honors, AP and Concurrent Enrollment courses, and is intended to supplement the high school curriculum. This program is independent of Concurrent Enrollment programs offered by many local high schools. Written permission from parent(s) or guardian(s) and school officials is required, along with transcripts, qualifying test scores, orientation, and meeting with an academic advisor. Students must apply for Early Enrollment by the deadline. Early Enrollment and Concurrent Enrollment are the only Special Status programs for students enrolled in secondary education. To learn more about the Early Enrollment process and application deadlines, visit http://www.slcc.edu/earlyenrollment.

EARLY HIGH SCHOOL GRADUATES

All applicants to credit programs at SLCC must meet the high school completion requirement as outlined in the Admission Policy. Of the applicants who have met the high school completion requirement, those who are under the age of 19 who plan to attend SLCC before their high school class has graduated must follow the College policy and procedures for Early High School Graduates below. Applicants who are high school juniors and seniors who wish to supplement their high school curriculum with college-level SLCC courses apply through different SLCC processes called Early Enrollment or Concurrent Enrollment.

Applicants 17 years or older who plan to attend SLCC before their high school class has graduated:

1. Complete an online admissions application
2. Provide official proof of graduation (original diploma or sealed transcript) to Enrollment Services
3. Students who are home schooled, submit statement that graduation requirements have been met and submit a current district release form
4. Students who earned a GED must submit their official GED Test Scores to the Data Center. All sections of the GED must have passing scores.
5. It is the student's responsibility to complete admissions and to follow through with Orientation and Advising

Applicants 16 years or younger:

1. Collect the following forms to be submitted with admission application:
    a. Completed and signed Parent Permission Form
    b. Copy of original official state ID or driver's license
    c. Official documentation of graduation:
        i. Provide official proof of graduation (original diploma or sealed transcript)
        ii. Students who earned a GED must submit their official GED Test Scores to the Data Center. All sections of the GED must have passing scores.
        iii. Students who are home schooled, submit statement that they have met graduation requirements and submit a current district release form
2. Submit completed paper admissions application, forms and $40 application fee to Cashiering
3. It is the student's responsibility to complete admissions and to follow through with Orientation and Advising

RESIDENCY CLASSIFICATION

The Office of the Registrar and Academic Records classifies all applicants for admission as either residents or nonresidents for tuition purposes following state laws as stipulated by the Utah Board of Regents at the time of application for admission. Students considered non- residents may apply for residency reclassification after applying for admission at Salt Lake Community College. Visit www.slcc.edu/enrollmentservices/residency.aspx for specific information regarding residency. Students making application under the Utah State Law HB 144 "Exemption from Non-Resident Tuition" may visit: http://www.slcc.edu/enrollmentservices/docs/Residency_Affidvit.pdf for additional information and requirements.

WESTERN UNDERGRADUATE EXCHANGE PROGRAM (WUE)

Students who are residents of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Washington, and Wyoming may be eligible to participate in the Western Undergraduate Exchange (WUE) Program. This program allows students to pay reduced out-of-state tuition while maintaining residency status in their home state. Students are advised to apply early for the WUE as a limited number of spaces for the program are available. Applications are accepted in the order they are received. WUE tuition waivers are not available for all academic programs at Salt Lake Community College. Any time spent on the WUE does not count towards state requirements in obtaining Utah residency. For more information and WUE forms visit www.slcc.edu/enrollmentservices/residency.aspx.

INTERNATIONAL STUDENTS, SCHOLARS & EXCHANGE VISITORS

SLCC welcomes 350 International Students and Scholars from 70 countries. SLCC is authorized to issue the USCIS form I-20 for "F" and "M" student visa applicants. Students must complete an international application and meet all admission requirements to receive the form I-20.

DEADLINES FOR INTERNATIONAL ADMISSION

Students applying from outside of the United States:

FALL SEMESTER	JUNE 1
SPRING SEMESTER	NOVEMBER 1
SUMMER TERM	APRIL 1

Students transferring from schools within the United States:

FALL SEMESTER	JUNE 17
SPRING SEMESTER	DECEMBER 3
SUMMER TERM	APRIL 30

INTERNATIONAL ADMISSION REQUIREMENTS

The following documents and credentials are to be submitted to International Student Services for the form I-20 to be issued:

1. APPLICATION FOR ADMISSION

   Complete the International Student Application for Admission with the appropriate field of study and the $75.00 non-refundable application fee. The online application is available at www.slcc.edu/iss.

2. FINANCIAL STATEMENT

   The U.S. Citizenship and Immigration Service (USCIS) requires SLCC to verify that an international student provides evidence of financial resources for the length of time necessary to pursue an education in the United States. A realistic financial plan is required for the issuance of the I-20 form. Official financial documents from the student or the student's sponsor are used to demonstrate financial ability. Both an official bank statement and a notarized Financial Statement (see application packet) from the bank account holder or sponsor are required. (Faxed documents will not be accepted).

   SPONSORED INTERNATIONAL STUDENTS

   International students whose tuition and fees are to be paid by another organization or agency will have their invoices processed by the Accounts Receivable Office. Financial Guarantees may be faxed to (801) 957-5747. Sponsored students are responsible for coordinating that their account is paid in full prior to the tuition due date. Verification can be made by going to MyPage, or visiting a cashier location. Late fees may be applied to accounts with unpaid tuition balances.

3. INTERNATIONAL STUDENT IMMUNIZATION REQUIREMENT

   All students on non-immigrant visas must prove that they have immunity to measles, mumps and rubella (MMR) or receive the vaccinations. Please visit the Health and Wellness Services Medical Clinic to be tested for Tuberculosis (TB) and to provide proof of immunizations. Visit the Health and Wellness Services website for locations and contact information.

4. INTERNATIONAL STUDENT HEALTH INSURANCE

   Health insurance is mandatory for international students. Students who do not meet health insurance requirements will not be allowed to register for classes.

   SLCC requires health insurance for international students for several reasons, including:

   - Health care can be very costly in the U.S.
   - The U.S. does not have a national health care plan
   - Health services may be restricted if you do not have health insurance

   International students fulfill this requirement by purchasing the SLCC Student Health Insurance Plan for F-1 international students provided by Ascension Benefits & Insurance Solutions, http://www.4studenthealth.com/slcc.

5. PROOF OF ENGLISH PROFICIENCY – NO TOEFL REQUIRED

   SLCC does not require the Test of English as a Foreign Language (TOEFL) for international admissions. Applicants for

whom English is not their native or first language must prove they are proficient in English or must satisfactorily complete English-as-a-Second Language classes. English proficiency is demonstrated by the SLCC Accuplacer/LOEP test (www.slcc.edu/testing). The Accuplacer/LOEP test can be taken at the Taylorsville Redwood, South City or Jordan Campus Testing Centers. Practice tests for Accuplacer exam preparation are available at www.slcc.edu/testing .

A minimum score of 95 on the LOEP is required to enter a major. Students scoring between 72 and 95 will be admitted to the College level four English as a Second Language Program. Students scoring below 72 will be admitted to the SLCC Intensive English Language Program at the School of Applied Technology.

Note: Entering international students should be aware that gaining proficiency in English may require as much as one year before entry into their degree programs. Students should plan their course of study and financial support accordingly.

6. OFFICIAL PROOF OF HIGH SCHOOL GRADUATION
   International admissions policy requires satisfactory completion of secondary education or the equivalent of a U.S. high school diploma. Submit an official high school diploma with graduation date.

7. COPY OF MAIN PASSPORT PAGES
   Include name, photo, and passport expiration dates.

INTERNATIONAL TRANSFER STUDENTS

In addition to the documents above, students transferring their form I-20 to SLCC must submit:

8. NOTICE OF INTENT TO TRANSFER (TRANSFER FORM)
   Students transferring from schools within the U.S. must submit a Transfer Form completed by the previous school's Designated School Official (DSO) certifying the student's status and eligibility to transfer.

9. TRANSCRIPTS
   Official transcripts for each post-secondary school, college or university attended by the applicant in the United States. Faxed documents are not accepted.

   International Transfer Credit Evaluations can be obtained through a foreign credential evaluation service. Information about these services is available from International Student Services at international.services@slcc.edu.

NOTE: The International Student Application is available at www.slcc.edu/iss. Contact ISS directly with questions about the international application process via email at: international.services@slcc.edu.

TESTING AND PLACEMENT ASSESSMENT

Testing Services provides an accessible option for students who need to complete Accuplacer placement testing. Additional services offered are GED, CLEP, and challenge testing as well as proctoring services for students earning credits from other schools. For more information, please visit the Testing Services website www.slcc.edu/testing.

The Accuplacer is an un-timed assessment, so students may take as much time as needed to complete the test. The Accuplacer is not graded on a pass/fail basis. Accuplacer test scores are used for class placements. English testing is limited to one retest per semester and scores have no expiration date. Math testing is limited to two retests per semester and scores are valid for one year. A fee is charged for each retest. Call (801) 957-4500 for more information about taking the Accuplacer.

Students who have Accuplacer scores from another higher education institution may submit those scores to SLCC to use for placement if the scores are valid. Please check the Testing Services website for instructions and forms.

Students who have taken the ACT or SAT recently (within the last two years) should submit an official copy of their scores to an Enrollment Services office for evaluation.

TESTING FOR NON-HIGH SCHOOL GRADUATES APPLYING FOR ADMISSION

Applicants will only be admitted to SLCC credit programs if they have earned either a state-recognized high school diploma, a state-issued General Education Diploma (GED), or an associate degree or higher from a regionally accredited institution.

Applicants who have not earned one of these credentials may only be admitted to credit programs if the Accuplacer, ACT or

SAT exams place the student into college-level coursework (ENGL 1010 or higher and MATH 1010 or higher). Exam scores must be less than one year old for English and less than one year old for math. If either or both of the scores are not valid (i.e., in score and recency), the student would need to complete Accuplacer testing. The scores needed to place into college-level coursework are as follows:

- Accuplacer: 81 + on the Reading section, and 54 + on the Elementary Algebra section.
- ACT: 20 + on the Reading section for English placement, and 18 + on the Math section.
- SAT: 520 + on the Critical Reading section, and a 430 + on the Math section.

If a student is a non-high school graduate and does not achieve a college-level Accuplacer placement into both English and math, the student may retest one time on whichever section was not passed. Any student not passing will be given choices for study prior to retesting (see 3rd section), the option to attend the SAT, or the option to talk further with an advisor. The student must wait the standard 72 hours required of all re-testers and pay the $15 retest fee. If the student still does not achieve the necessary placement after retesting, the student should be referred to the School of Applied Technology (SAT) for assistance in developing academic skills or preparing to take the GED.

OPTIONS FOR STUDENTS NOT PLACING AT COLLEGE LEVEL

For those non-high school graduate students who test but do not place at college-level in both English and math, Testing Services will offer the following options.

- The students may retest one time. A $15.00 fee will be charged.
- The student will be given a list of websites which may help them prepare for a retest.
- The student may go to the School of Applied Technology and enroll in either an ABE program, or an academic program if they choose.
- The student may consider taking the GED. Information would be supplied to the student about the necessary procedure.
- The student may take the Diagnostic portion of the Accuplacer in order to determine in which areas they may have a weakness. This would also give the student access to MyFoundationsLab. This is the same program currently being used in the Math Emporium and that will be used in Reading classes. The student will have 10 weeks of access to the program. The student would pay a $15 fee to take the test and access MyFoundationsLab.

ENGLISH-AS-A-SECOND LANGUAGE

Students for whom English is not their native or first language must satisfactorily complete English-as-a-Second Language classes or must prove they are proficient in English-as-a-Second-Language. English proficiency can be demonstrated by TOEFL exam (173 or above) or the SLCC Accuplacer/LOEP exam. All non-native English speakers need to take one of these exams to determine English proficiency. For more information on ESL (English-as-a-Second-Language) classes, call the ESL coordinator at the School of Applied Technology, South City Campus, at (801) 957-3212.

REGISTRATION

Before the beginning of each semester, students may register for classes listed in the class schedule. Class schedules are available online at www.slcc.edu/schedule. Registration is complete when students enroll in one or more courses and tuition and fees are paid in full or payment arrangements have been made. Registration deadlines and payment due dates are listed in the Academic Calendar.

ADDS/DROPS/WITHDRAWALS

Students are responsible for adding and dropping their own classes and should follow the procedures below.

ADDS

Classes may be added during the scheduled registration periods. Students hoping to add a class that is closed are encouraged to continue viewing seat availability through the MyPage student portal. The waitlist option is available to students registering for a closed class.

DROPS

Classes may be dropped until the published drop deadline. Students dropping classes by the published deadline will receive a refund or adjustment of tuition. No entry is made on the student's permanent record for classes dropped by the published deadline. Exceptions to the drop policy may be made under extenuating circumstances. Please see Appeals for more information.

WITHDRAWALS

Students may withdraw from classes after the third week through the ninth week of a semester or within the first 60% of a 7 1/2 week term. For sessions shorter than 7 1/2 weeks, see deadlines published in the Academic Calendar. Withdrawal from class after the third week of the semester or 20% of the term will be shown as a 'W' on the transcript and will not be calculated in the grade point average. No tuition refund/adjustment will be made for withdrawals. Exceptions to the withdrawal policy may be made under extenuating circumstances. Please see Appeals for more information.

REGISTRATION ATTEMPTS

Registration attempts in the SLCC student computer system are limited to a manageable number during a semester. If students neglect to register within the allotted registration attempts during one semester, registration privileges will automatically be disabled for the semester. In addition, the use of developed technical programs, registration robot tools, and any other device that interferes with the Office of the Registrar and Academic Records policy and procedure is prohibited. Students caught using technical devices may be subject to disciplinary action.

WAITLIST

The waitlist option is available for the majority of courses filled to capacity (closed courses). Students registering for a closed course will be offered the opportunity to be put on a waitlist. Students may view waitlist status on the MyPage Student Portal. When a registered student drops a seat in a closed class, the waitlisted student will be notified by BruinMail email that a seat is open in the class. Once notified by email that a seat is available, the waitlisted student has 24 hours to register for the course. If registration is not finalized within the 24-hour period, the student is dropped from the waitlist. Waitlisted students will need to attend the first day of class and receive further instructions from the faculty member.

ADMINISTRATIVE DROPS FOR NON-ATTENDANCE

In order to maximize registration opportunities for all students, students are required to attend the first class meeting of any regularly scheduled class that meets once per week or at least the second class meeting of any regularly scheduled class that meets more than once per week. Students who are unable to attend the initial class meeting(s) as required must inform the instructor or department office, preferably in writing, that they intend to attend subsequent meetings and do not want to be dropped.

Students who fail to attend initial class meeting(s) as required and who fail to contact the instructor in advance of the absence may be dropped from the course by the instructor.

Students are required to log into online classes within the first five days of the term. Class accessibility begins on the first day of each term. Students are expected to access online classes the first day. Students must log into online classes within the first five days of the term or may be dropped to make space for other students.

Students enrolled in classes of high demand and/or limited availability are particularly vulnerable to a drop for nonattendance. Students who receive an Administrative Drop for Nonattendance will receive full credit for tuition paid. Dropping and reinstatement are at the instructor's discretion during the first 20% of the term. See Academic Calendar for specific calendar dates. Students are NOT automatically dropped for non-attendance.

FAILURE TO DROP/WITHDRAW

Students should not assume classes are automatically dropped for non-attendance or nonpayment. Students are responsible for dropping or withdrawing from classes they (a) are not attending, or (b) do not intend to complete in the current semester. Students who stop attending a course without completing the formal drop or withdrawal procedures by the published deadlines will be responsible for all tuition and fees associated with the course, and will receive a failing grade 'E' for the course with the last date of attendance recorded.

REGISTRATION APPEAL

In the case of extenuating circumstances, students may appeal to drop classes after the drop period. Appeals must be initiated within one year of the semester involved to be eligible for a tuition refund/adjustment. If students have received failing grades ("E" grade only) due to extenuating circumstances, students may also appeal in writing by submitting a Registration Appeal Form with appropriate documentation to the Office of the Registrar and Academic Records to request an official withdraw. "E" grades and official withdrawals cannot be removed from a student's record except when an appeal to DROP tuition refund or adjustment is granted. Guidelines for submitting appeals are explained on the Appeal form.

For more information and to access forms, please go to www.slcc.edu/enrollmentservices/forms.

Appeals are reviewed by a representative of the Registration Appeals Committee. Results are emailed to the student within 7-10 business days. If a student is not satisfied with the appeal decision, the student may submit a second appeal with additional supporting documentation, to be reviewed by the Appeals Committee. Results of the Appeals Committee decision are final.

FULL-TIME AND PART-TIME STATUS

For students who receive federal financial aid, enrollment in 12 or more credit hours in a semester is considered full-time and enrollment in less than 12 credits constitutes part time status. Full-time equivalent (FTE) is equal to 15 credit hours per semester or 450 clock hours per semester.

CREDIT HOUR LOAD IN EXCESS OF 21 CREDIT HOURS

To register for 22 credits or more, permission must be obtained from the appropriate College Department of the student's current program or from the Director of Academic Advising.

AUDITING CLASSES

Students may audit most SLCC classes for the purpose of the learning opportunity it provides, according to the following conditions:

- Tuition and fees will be assessed at the same rate for audited classes as those taken for credit.
- Students are not required to attend, take exams, or otherwise participate in classes they are auditing.
- Students do not receive Attempted or Earned credit hours for audited classes.
- Audited classes appear on student transcripts with an AU grade which is not calculated in term or cumulative grade-point averages.
- Audited classes are not counted as part of student enrollment status.
- Students will not be awarded financial aid nor receive veterans benefits for audited classes.
- Audited classes will not be considered part of Satisfactory Progress for financial aid purposes.

Students should declare their intent to audit a class at the time of registration. Exceptions may be recommended by the appropriate administrative authority. To audit a class after the add period, the instructor of the intended class will need to mailto:enrollmentexceptions@slcc.edu.

SENIOR CITIZEN ENROLLMENT

Utah Residents who have reached age 62 and over are invited to enroll in any regular class offered at reduced cost under the following conditions:

- Surplus space must be available in the class
- Classes will be taken as an audit (non-matriculated, no college credit)
- $10 registration fee required each semester (fee does not cover cost of books, supplies, parking or special class fees, lab fees)
- Online Admission Application must be completed. ($40 application fee waived)
    - Register online as an audit status for each class
    - Course prerequisites must be met
    - Senior Citizen Waiver form must be submitted to the Cashiers Office each semester
- Senior citizens desiring college credit must follow regular admissions and registration procedures and pay full tuition and fees
- Senior Citizen audit status may not be combined with credit status within the same semester

CREDIT BY EXAM

Students may earn credit through the following examination programs: Challenge Examinations, Advanced Placement (AP), College Level Examination Program (CLEP) and International Baccalaureate (IB) Examination. Credit earned through these exams is not counted as in-residence credit.

CHALLENGE EXAMINATIONS

Students who feel that their experience or previous knowledge would enable them to successfully challenge (test out of) a course offered at SLCC may apply to take a challenge examination at Testing Services. Information about challenge tests is located on the Testing Services website http://www.slcc.edu/testing/.

ADVANCED PLACEMENT EXAMINATIONS

Advanced Placement Exams are administered in the High School. High school students who achieve scores of 3, 4 or 5 on an AP

examination may be awarded up to 10 hours of college credit for each examination completed, as shown online http://www.slcc.edu/transcriptevaluation/forms.aspx.

SLCC will recognize Advanced Placement with credit only for those freshman-level areas which apply to the graduation requirements of the specific major and the established general education requirements for graduation from the chosen program. Official results must be sent directly from College Board to Enrollment Services at SLCC. Please visit Advanced Placement Exam Credit for further information.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

CLEP is a national program of examination to evaluate and confirm the academic achievement of individuals who have reached a college level of education through either traditional or non-traditional means of study. SLCC awards credit only for the CLEP exams shown in CLEP EXAM CREDIT TABLE. Information about CLEP exams, including credit granted, is located on the Testing Services website www.slcc.edu/testing/.

CLEP EXAM CREDIT TABLE			
EXAM	**SCORE**	**CR**	**COURSES**
College Composition	50	6	ENGL 1010 (3 cr.) + 3 cr. General Studies elective
Natural Sciences	50	6	3 cr. Physical Science GE + 3 cr. Biological Science GE
Humanities	50	6	3 cr. Fine Arts GE + 3 cr. Humanities GE
Social Science/History	50	6	HIST 1700 (3 cr.) + 3 cr. Social Sciences GE

Credit is not awarded if duplicated by previous course work and credit is not given for the mathematics general examination. A non-refundable fee (per test) is required at or before the time of testing.

CLEP language exams are not accepted. Please be aware that CLEP results may take from four to six weeks to be returned and up to an additional two weeks to appear on a transcript.

The CLEP test is given by appointment only. For specific information regarding the CLEP test or to make an appointment, contact Testing Services at (801) 957-4500.

INTERNATIONAL BACCALAUREATE (IB) EXAMINATION CREDIT

Students who achieved scores of 5, 6, or 7 on Higher Level International Baccalaureate (IB) Examinations may be awarded up to eight semester hours of credit in each Higher Level examination or 22 semester hours of credit for the completion of the International Baccalaureate Diploma. General education requirements will be cleared for completion of the IB Diploma except in the areas of Composition, American Institutions and Quantitative Literacy. These areas can be cleared with a Higher Level exam. For more information about IB credit, call (801) 957-4738.

TRANSFERRING CREDIT

TRANSFER OF CREDIT FROM OTHER INSTITUTIONS TO SLCC

If you are transferring to SLCC, please visit www.slcc.edu/transcriptevaluation to learn how to have your prior credits evaluated.

The posting of transfer credit is completed in the order ALL official documentation is received. The formal process can take up to six weeks during peak registration periods. PLAN ACCORDINGLY and read all transferring instructions and guidelines carefully http://www.slcc.edu/transcriptevaluation/transferring-guidelines.aspx.

The Transfer Evaluation Office evaluates general education credit. If transcripts also contain credit related to a program of study, the Transfer Evaluation Office will forward them to the appropriate academic department for further evaluation.

BASED ON REGENT'S POLICY R470-7. TRANSFER OF CREDIT POLICY 7.1.2

TRANSFER OF COMPLETED GENERAL EDUCATION CREDITS THROUGH PROGRAM COMPLETION

An AA or an AS degree earned at any USHE institution will meet the General Education requirements of any other USHE institution. If a student has completed all institutional General Education requirements, a Letter of Completion issued by the

sending institution that confirms such General Education completion should be accepted by the receiving USHE institution.

Degrees from non-USHE institutions will be subject to individual course evaluation for general education unless a prior agreement exists.

All credit accepted will be recorded as part of a student's academic history. **Email notification will be sent to the student once the evaluation is completed or updated.** Once transfer credit is posted it may not be removed. Some exceptions may include a lapse in attendance that requires re-application, new transcripts be submitted, and/or a re-evaluation of credit. Credits may need to be updated if the initial evaluation of credits was not applied toward a degree within two years.

NOTE: Students wishing to transfer credits from schools outside the U.S. should submit a comprehensive report from an accredited foreign credential evaluation service. Contact the Office of the Registrar and Academic Records or International Student Services for a list of foreign credential evaluation services.

SLCC awards transfer credit for college classes which meet the following criteria:

1. Classes were taken for credit at a regionally accredited college or university (exceptions to this rule are sometimes made by specific academic programs for credit applied to a program of study).
2. Individual classes with a grade of C- or higher, except in cases where a grade of C or higher is required at SLCC as a prerequisite.
3. Classes were college level (rather than remedial or developmental; at Utah institutions this usually means numbered 1000 or above).
4. Classes are designated as "general education" by the issuing institution or by SLCC, or meet a requirement for graduation in the student's SLCC program.
5. Courses taken more than 10 years ago may only transfer as elective credit, rather than specific course credit.
6. To be eligible for graduation from SLCC, students must take 25% of required credits directly from Salt Lake Community College.

Credit is awarded based on course equivalency at the time credit is transferred. Transfer course articulations are subject to change. Courses accepted for transfer will be awarded the same number of credit hours given for equivalent SLCC courses. If SLCC has no equivalent course, the transferred course will be awarded its original number of credit hours (based on a semester system). Transcripts are kept on file at the Office of the Registrar and Academic Records for one year. After one year, students requesting additional evaluation may be asked to submit new transcripts. Evaluations that were not applied toward a degree within two years from date of evaluation may be subject to a re-evaluation.

TRANSFER OF CREDIT FROM SLCC TO OTHER INSTITUTIONS

SLCC is accredited by the Northwest Commission on Colleges and Universities (NWCCU) (11130 NE 33rd Place, Suite 120, Bellevue, WA 98004), an institutional accrediting body recognized by the Council for Higher Education Accreditation and/or the U.S. Department of Education.

SLCC credit from college level courses (numbered 1000 or above) is accepted by most colleges and universities in the United States. Utah's public colleges and universities have established transfer of credit policies that outline how credit will transfer within the state system. SLCC courses numbered 1000 or above are accepted as general elective, general education or major credit by Utah's public colleges and universities. Most private and out-of-state institutions also accept SLCC courses numbered 1000 and above; however, there may be exceptions. Students should check with the institution to which they plan to transfer to determine exactly how SLCC credit will be accepted and applied to degree programs.

SLCC offers the Associate of Science (AS) and the Associate of Arts (AA) degrees that provide the first two years of college for most baccalaureate degree programs. Students who earn an SLCC AS or AA degree will be considered as having satisfied all of the lower division general education requirements for a bachelor's degree at Utah's public colleges and universities. This policy does not apply to the Associate of Applied Science (AAS), or the Associate of Pre-Engineering (APE), because these degrees do not contain all of the general education requirements.

Students who complete all general education requirements, but not the entire AS or AA degree, will also be considered as having completed the lower division general education requirements for a bachelor's degree by Utah's public colleges and universities. In this instance, students should request a "Letter of General Education Completion" from the SLCC Graduation Office to be sent with their official transcript to the institution to which they intend to transfer. See page 23 for more information.

Students can begin lower division requirements for most baccalaureate majors at SLCC. SLCC offers the AS and AA degree in more than 40 different program areas. Many major courses have been "articulated" or equated to similar courses at the four-year institutions in Utah. Students should consult an advisor or the academic department to select appropriate courses that apply to their major program of study at the institution to which they plan to transfer.

Completion of a transfer degree does not guarantee automatic acceptance into any specific major at other colleges and universities; some four-year major programs are restricted and require special application as well as a competitive GPA. On-going planning is essential!

Most of the private institutions in Utah, including BYU, Columbia College of Missouri, Westminster College, Argosy University and University of Phoenix have similar policies regarding the transfer of SLCC credits. However, there are a few exceptions that should be reviewed with an SLCC Program Advisor or advisor at the receiving institution before enrolling in courses.

NOTE: Some programs such as business and engineering have particular general education requirements that should be investigated before selecting general education courses.

TRANSFER AND ARTICULATION AGREEMENTS

SLCC has established specific transfer and articulation agreements with the Utah System of Higher Education (USHE) institutions and a variety of other private, public, and out-of-state institutions.

These agreements outline how general education and major-related courses transfer from SLCC to these other institutions. For a full list of institutions with established articulation agreements with SLCC, see the Transfer Center website: www.slcc.edu/academicadvising/transfercenter/.

TRANSFER TIPS

Start early to plan a transfer with these simple steps:

- Meet with an SLCC Academic and Career Advisor
- If undecided you can research options using the following resources: visit the Career Library, use our dedicated web tools, attend the Careers to Majors Fairs and enroll in LE 1200.
- Contact the advising and academic departments at the institution you are planning to transfer to.
- Attend transfer activities.
- Visit with Transfer Advisors from other institutions at SLCC.
- When transferring out of state get in touch with the colleges or universities to find out about their transfer of credit policies. Although SLCC's college level credits will typically be accepted by most out-of-state institutions, there is no guarantee that they will meet specific general education or major requirements. Students are advised to keep the syllabus from each SLCC course for possible review of credit by an out-of-state school. Keep in mind completion of a transfer degree does not guarantee automatic acceptance into any specific major at other colleges and universities; some four-year major programs are restricted and require special application as well as a competitive GPA.
- All transfer resources and calendar can be found at www.slcc.edu/academicadvising/transfercenter.

GRADES AND REPORTS

GRADING POLICIES

Students must complete, by the end of the term, all courses for which they register. Students will be awarded letter grades with quality points used in GPA computation for work undertaken at SLCC.

Performance is graded as follows:

Grade	Pts.	Quality
A	4.0	Superior Grade
A-	3.7	
B+	3.4	
B	3.0	Above Average Grade
B-	2.7	
C+	2.4	
C	2.0	Average Grade
C-	1.7*	
D+	1.4	
D	1.0	

D-	.07	Lowest Passing Grade
E	0.0**	Failing Grade

*C- or lower is unacceptable in classes requiring a grade of C or better.
**All E grades are designated with the last date of attendance.

Not used in GPA computation are:

Grade	Designation
W	Withdrawl[1]
P	Passing Grade
I	Incomplete Grade[2]
AU	Audit
EX	Extension[3]

[1] Withdrawal from class after the third week of the semester or 20% of the term. Not calculated in GPA.

[2] The following conditions apply to incomplete (I) grades:

- Incomplete grades may be given by instructors to students who cannot continue in class because of circumstances beyond their control (such as serious illness, death in the family, or change of employment) with proper documentation;
- Student must be passing the course at the time of incomplete grade request;
- A substantial portion of a course must be completed before an incomplete is given;
- Upon receiving an 'I' grade, the student must work directly with the instructor to create a contract for completing the classwork. The contract should specify (a) required work to be completed and/or tests to be taken, and (b) time allowed for requirements to be completed; time may not exceed one year from the time the 'I' grade was received.
- Student should not re-register for the class, but should work directly with the instructor to complete the contract.
- The student who fails to fulfill the contract within one year of when the 'I' was received will (a) have their 'I' grade changed to the grade of 'E' (failing), and (b) be required to retake the class in order to receive credit. An incomplete must be resolved before the student will be permitted to register for the same course again.

[3] EX grades are allowed only in open-entry classes. In order to complete the course, the student must re-register for the class and pay applicable tuition and fees. All coursework for 'EX' grades must be completed within one year.

ATTENDANCE

Regular and prompt attendance is expected at all classes. Regular attendance and consistent study habits are necessary for success in college. Faculty members have the prerogative of lowering grades for excessive absence.

INCOMPLETE GRADES

Incomplete grade policy – Faculty may submit an Incomplete for students who meet the following requirements: Incomplete grades may be given by an instructor to students who cannot continue in class because of extenuating circumstances beyond their control (such as serious illness, death in the family, or change of employment) with proper documentation. Students must be passing the course at the time of the Incomplete grade request. A substantial portion of a course must be completed before an Incomplete is given. A substantial portion of a course is generally defined as 70%; however, the final decision is based on the instructor's discretion. Upon receiving an Incomplete grade, the student must work directly with the instructor to create a contract indicating required work and time limits for completing the course. The contract should specify (a) required work to be completed and/or tests to be taken, and (b) time allowed for requirements to be completed. Suggested time period is six months, however the time period may not exceed one year from the time the Incomplete grade was received. The student does not re-register for the class, but should work directly with the instructor to complete the contract. If the student fails to fulfill the contract by the determined completion date or within one year of when the Incomplete was received, the Incomplete grade will be changed to the grade of "E" (failing), and the student will be required to retake the class in order to receive credit. Faculty submit a grade change to facultygradechange@slcc.edu when the student has completed the requirements of the course.

REPEAT COURSES

Students may repeat a course in which low grades are received. All grades remain on the academic record; however, only the highest grade received in the course will be used to calculate the student's cumulative GPA. Courses completed at other institutions may be used as repeated courses if the courses are accepted as transfer credit at Salt Lake Community College. Only one repeated course for the same course may be included in the total credit hours earned toward graduation.

WICHE PASSPORT

SLCC is a participant in the Interstate Passport Initiative where a transferable block of classes comprised of general education classes (oral communication, written communication, and quantitative literacy) are noted on the transcript for articulation purposes. Please refer to the WICHE website for further information: www.wiche/edu/passport

SCHOOL OF APPLIED TECHNOLOGY COMPETENCY GRADES

School of Applied Technology non-credit, competency-based clock hour courses are graded on mastery of competency leading to Certificates of Proficiency.

MC	Mastered Competency
NM	Competency Not Mastered
TC	Transfer Competency
TT	Transfer Tested
W	Withdrawn

Grading system prior to July 1, 2010

4	Skilled
3	Moderately Skilled
2	Limited Skill
1	No Skill
P	Passed an administrative block
W	Withdrawn

School of Applied Technology non-credit, clock hour courses are not applicable to Salt Lake Community College credit program requirements.

ACADEMIC STANDARDS POLICY

The SLCC Academic Standards Policy exists to help you reach your academic potential and maintain an expected level of academic performance at the institution. Academic and Career Advisors and faculty members are available to review the obstacles in your education and recommend strategies for success. If you would like to learn about the resources available for you, please set up an appointment with an Advisor by calling (801) 957-4978 and/or visit our web page www.slcc.edu/academicadvising/academicstandards.

The following guidelines are in place to assist students in academic jeopardy:

1. Academic Notification - Students whose term grade point average (GPA) falls below a 2.0 while their cumulative GPA is 2.0 or higher will be put on Academic Notification. Students will be notified by email of their status, encouraged to read the Academic Standards Policy, and made aware of the learning support and tutoring resources available at SLCC.
2. Academic Alert - Students with 14 or less credits whose term and cumulative GPA fall below 2.0 will be placed on Academic Alert. Students will be notified by email and online of their status, encouraged to read the Academic Standards Policy, and made aware of the learning support and tutoring resources available at SLCC.
3. Academic Warning - Students with 15 or more credits whose term and cumulative GPA fall below 2.0 for the first time will be placed on Academic Warning. Students will be notified by mail and email that they have been placed on Academic Warning. Registration restrictions will be placed on these students' records. Students will not be able to register until they meet with an academic advisor, or complete a workshop when available online or on campus.
4. Continued Warning - After being placed on Academic Warning, students whose subsequent term GPA rises above a 2.0 while their cumulative GPA is still below a 2.0 will be on Continued Warning. No registration restriction will be placed on their record. These students will be sent an email acknowledging their improvement and encouraging them to keep up the good work.
5. Conditional Enrollment - The second time that students' term and cumulative GPA fall below a 2.0, with 15 or more credits; they will be placed on Conditional Enrollment. Students will be notified by mail and email that they have been placed on Conditional Enrollment. Registration restrictions will be placed on these students' records. Students will not be able to register until they meet with an academic advisor in order to create a follow-up plan, identify obstacles and discuss strategies to assist them with their academic success.
6. Continued Conditional Enrollment - After being on Conditional Enrollment, students' whose subsequent term GPA rises above 2.0 or above while their cumulative GPA is still below a 2.0 will be on Continued Conditional Enrollment.

   No registration restriction will be placed on their record. They will be sent an email acknowledging their improvement and encouraging them to keep up the good work.

7. Academic Probation - The third time that students' term and cumulative GPA fall below a 2.0 they will be placed on Academic Probation. Students will be notified by mail and email that they have been placed on Academic Probation. Registration restrictions will be placed on these students' records. Students will not be able to register until they complete an appeal process. They will need to fill out an appeal form with their academic advisor. The appeal form will include their name, address, proposed class schedule and proposed work schedule. Students will also need to write a statement indicating what they will change in order to ensure academic success.

The Academic Success Committee will review all appeals. The Committee will consist of the Academic Standards Advisor, the student's advisor, and a faculty member. The Committee will determine the conditions of attendance (i.e. restricted hours, class requirements, term suspension, etc.).

8. Continued Probation - Should students' subsequent term GPA rise above a 2.0 while their cumulative GPA is still below a 2.0, they will be on Continued Probation. No registration restriction will be placed on their record. They will be sent a letter acknowledging their improvement and encouraging them to keep up the good work.

The academic standing of students will be posted online to their SLCC unofficial academic transcript. It will not appear on the official transcript.

PRESIDENT'S LIST, DEAN'S LIST HONORS

To qualify for the semester President's list, students must earn a 3.8 grade-point average and take 15 or more credits. To qualify for the semester Dean's List, students must earn a 3.5 grade-point average and take 15 or more credits. The Academic and Career Advising Office recognizes the high achievement of the students by presenting a certificate with the President or Dean of Students' signature and invites the students to the annual President and Dean's Lists reception.

TUITION AND FEES

Important deadlines for undergraduate (UG) registration and payment of undergraduate (UG) tuition/fees will be available on MyPage. Tuition and fees for the 2013-2014 academic year are as follows: http://www.slcc.edu/students-current/tuition-fees

International students are charged an additional $40 administrative fee per term. Some courses will have a laboratory or special course fees attached. See current class schedule: http://www.slcc.edu/schedule

NOTE: A $50 Late Payment Fee will be charged after payment deadline to all student accounts with unpaid Tuition and Fees.

SCHOOL OF APPLIED TECHNOLOGY COSTS AND FEES

For Utah residents, the School of Applied Technology courses and programs are based on $2.02 per clock hour of instruction, which does not include student fees. Books and supplies are separate and are subject to change.

See a School of Applied Technology advisor for total program costs or the School of Applied Technology section of this catalog.

NON-RESIDENT FEES

Non-residents of Utah are required to pay non-resident fees. Living in Utah merely to attend SLCC does not constitute resident classification. To qualify as a resident, a student must present objective evidence of intent to become a permanent resident of Utah and abandon residence elsewhere.

The Utah Legislature passed HB 144, November 2002, which amends the Tuition Waiver Policy. The revised policy exempts certain students from paying the non-resident portion of total tuition regardless of immigration status. To be eligible for exemption, the student must meet specified requirements including having attended a Utah High School for three years and having earned a diploma or equivalent in Utah.

At the time application for admission is made, students are classified as either resident or non-resident. Under certain circumstances, classification s non-resident may be appealed. An Application for Resident Classification and information outlining the rules and regulations that determine resident status are available online at www.slcc.edu/enrollmentservices.

PAYMENT OF TUITION AND FEES

Tuition and student fees are established by the Utah State Board of Regents and are subject to change without notice. Twelve credit hours per semester constitute a full load for tuition purposes. Registration is complete only when tuition and fees are paid in full.

TUITION IS DUE AT THE BEGINNING OF EACH SEMESTER

Tuition is dues at the beginning of each semester. Payment must be received by deadlines published on the current academic calendar at http://www.slcc.edu/academiccalendar to avoid the $50 Late Fee. Students may review their accounts at any time online at http://mypage.slcc.edu. Monthly billing statements are mailed, or may be sent electronically to students SLCC email address.

NOTE: SLCC reserves the right to place financial holds on registration, grades, transcripts, and graduation for any student owing the College money or who has had a check dishonored. Students may not register if money is owed.

TUITION PAYMENT OPTIONS

http://www.slcc.edu/cashiering/tuition-payment-options.aspx

INSTALLMENT PLAN

Students who need more time to pay their tuition in full should consider signing up for the Semester Tuition Installment Loan (STIL) which requires a non-refundable $30.00 application fee. After the application and first installment, additional installments are due by the 10th of the month. There are four installments for Spring Semester (January, February, March and April), three installments for Summer Semester (May, June, July), and four installments for Fall Semester (August, September, October, November). Apply online at http://mypage.slcc.edu

SPONSORED STUDENTS

Students whose tuition and fees are to be paid by another organization or agency (other than Financial Aid awards) will have their vouchers processed by the Accounts Receivable Office. Vouchers may be faxed to (801) 957-5747. Sponsored students are responsible for coordinating that their account is paid in full prior to the tuition due date. Verification can be made by going to MyPage or visiting a cashier location. Late fees may be applied to accounts with unpaid tuition balances.

FINANCIAL AID PAYMENTS

Classes are automatically held if students have been offered Financial Aid awards. Classes cannot be held for Financial Aid applicants who have not been offered an award. A pending Financial Aid award, does not remove a student's obligation to pay tuition and fees by the published deadline. Financial Aid awards that are insufficient to cover tuition and fees may result in an unpaid balance on the student account. Late Fees may apply.

DISHONORED CHECKS

Dishonored checks are paid at the Cashier Offices. Students are charged a minimum $20.00 fee per check for checks paid within 15 days. After 15 days, fees are increased. If tuition remains unpaid due to a dishonored check, a $50.00 Late Fee may be added to a student account in addition to other fees. A HOLD is placed on the student's records, which can only be removed by the Student Loans and Receivables Department. The student will not be entitled: 1) to receive an official copy of grades, transcripts or diplomas; or 2) to pick up checks disbursed by SLCC–-which may include but is not limited to tuition refunds and payroll checks—until the amount due has been paid to the College or otherwise satisfied. Collection of dishonored checks may involve legal prosecution and recovery of legal costs if necessary.

Checks will not be accepted from students who have not resolved dishonored checks on their accounts. Students who have settled past dishonored checks may have check privileges reinstated, unless they have three or more dishonored checks.

COLLECTION POLICY

SLCC pursues all financial obligations to the fullest extent of the law. This includes but is not limited to: HOLDS on registration, transcripts, grades, and graduation; liens against State of Utah tax refunds; referrals to collection agencies; and litigation. Any fee or financial obligation, if not paid when due, is subject to interest, collection and/or attorney fees.

DROPS/WITHDRAWALS

If a student decides not to remain enrolled in a class, it is the student's responsibility to drop or withdraw from the class. Failure to officially drop classes not attended will result in failing grades and forfeiture of tuition due the College. Failure to officially drop may lead to enforcement of the college collection policy (see above.)

Students are required to pay for ALL classes that they do not officially drop.

If the student withdraws after the last published date to drop, the action is considered a 'withdrawal' and no adjustment of tuition will be made.

If the student drops a class on or before the last published date to drop, the action is considered a 'drop' and the student is entitled to an adjustment or refund of tuition:

1. When a student officially drops classes, adjustments are based on the drop date regardless of class attendance. Refunds/adjustments for students, who were awarded Financial Aid, will go to Title IV federal programs first (Pell, Stafford, Perkins, SEOG).
2. Application fees are non-refundable.
3. STIL fees are non-refundable.

REFUNDS

http://www.slcc.edu/cashiering/refunds

Refund/Adjustment schedule for classes that follow regular semester beginning and ending dates:

Refund/Adjustment Period	Percent Adjustment
Through 21st calendar day of semester	100%
After 21st calendar day	No Refund/Adjustment

Adjustment schedule for classes with beginning or ending dates that do not correspond with regular semester beginning or ending dates:

Refund/Adjustment Period	Percent Adjustment
Through 20 percent of class taught	100%
Over 20 percent of class taught	No Refund/Adjustment

SCHOOL OF APPLIED TECHNOLOGY WITHDRAWAL/REFUNDS

For information on withdrawing and refunds for School of Applied Technology courses and programs, see the School of Applied Technology section of this catalog.

• SHOP CARDS ARE NON-REFUNDABLE •

NOTE: For information on appeals regarding the adjustment of tuition and fees, see Registration Appeal form at http://www.slcc.edu/enrollmentservices/forms

FINANCIAL AID AND SCHOLARSHIPS

Financial aid applications are available online at www.slcc.edu/financialaid and from Student Services at Taylorsville Redwood, South City, Jordan and Miller Campuses.

Please be aware that not all programs and/or classes offered at SLCC are eligible for financial aid. Please check with the Financial Aid Office to determine if your program is eligible.

All students are encouraged to apply for financial aid. Students should apply as early as possible for financial aid as the process can take several weeks to complete. The application process for financial aid can be started before applying for admission, but financial aid is only awarded to admitted students. Students must have earned a state-recognized high school diploma or a state-issued General Education Diploma (GED) to receive financial aid.

There are many sources of aid available to students including federal, state, institutional and private. Aid can be need-based or merit-based and is available in the form of grants, loans, jobs, scholarships and tuition waivers. Further information on the type of aid and the eligibility criteria is available online at www.slcc.edu/financialaid.

DETERMINING NEED

A student's financial need is the difference between the cost of attendance at SLCC and the expected family contribution.

Level of need = Budget minus resources

A number of federal, state and private sources of assistance are available to eligible students who demonstrate financial need. Some scholarships and waivers based on merit and achievement are also available.

In receiving financial aid, students and their families are expected to assume some responsibility for meeting the cost of education. The expected contribution from the student and family is determined by income, assets, number of dependents and other relevant information. Most financial assistance is awarded when costs of attending SLCC are greater than the ability to pay. To determine this, the College uses the guidelines established by the U.S. Department of Education.

Students may obtain information from the Financial Aid Office at the Taylorsville Redwood, South City, Miller or Jordan locations.

APPLYING FOR FINANCIAL AID

1. Complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov with school code 005220.
2. Complete the Student Information Form and submit it to the Financial Aid Office.
3. Submit further documentation, if verification is required by the Financial Aid Office. This may include Tax Transcripts from the IRS, W-2 forms or proof of untaxed income.
4. Complete the admissions process to become a matriculated student in an eligible program at SLCC. Entering students who need financial aid must be enrolled in an eligible program and all of the matriculation requirements must have been met.

APPLICATION PRIORITY DATES

Once students have completed an application for financial aid, it may take up to three months to process applications and notify students. The Financial Aid Office has established the following priority dates for students entering each semester. (Applications for non-credit School of Applied Technology programs are accepted throughout the year.)

Fall Semester	April 15
Spring Semester	November 1
Summer Term	April 15

NOTE: Priority consideration will be given to students who have completed applications by these deadlines. Applications submitted after the priority dates will be processed as time allows and in the order received. Only one application is necessary for the Fall and Spring semesters; a separate application may be required for Summer term.

WHAT HAPPENS AFTER APPLICATION?

Once the FAFSA results are received in the Financial Aid Office, students will be contacted to provide any other information needed. When the student file is complete, it will be reviewed and processed by the Financial Aid Office.

If eligible, the student will be awarded and an email will be sent to the student's SLCC email address to inform him/her of the amount of aid. If the student has indicated an interest in student loans on the FAFSA, a subsidized and/or unsubsidized Stafford Loan may be offered. Students must also complete Loan Entrance Counseling. The student will be notified if a Master Promissory Note (MPN) needs to be signed. Aid is normally disbursed the week before classes begin. If tuition and fees have not been paid, the aid will be applied to the unpaid charges. If any funds remain after tuition/fees are paid, a check will be mailed to the student's local address or the student may set up other refund delivery options through the Cashiers Office.

For further information or assistance in filling out the FAFSA, contact the Financial Aid Office.

ELIGIBILITY CRITERIA FOR FINANCIAL AID

Students who receive federal or state financial aid funds are expected to maintain satisfactory academic progress (SAP). SAP includes a qualitative measure, as indicated by the cumulative GPA (CGPA), or competency achievement for clock hour programs, and a quantitative measure, determined by comparing attempted credits versus earned (or completed) credits within a maximum time frame, or determined by comparing scheduled hours to competency attainment in School of Applied Technology programs. Determination of SAP takes into account the full record of students' attendance at SLCC, regardless of whether they received financial aid during previous periods of enrollment.

Under certain circumstances, students may qualify for financial aid when repeating courses. If a student is unable to pass a class (grade of D- or higher), financial aid may be available until the course has been passed. Once a course has been passed, students may retake the course one time for any reason (improve grade, review information, etc.) and may qualify for aid again. However, retaking courses may impact a student's eligibility for financial aid based on the 150% limit (see paragraph below).

Students may be allowed 150% of the published number of credit hours or clock hours required for graduation completion in

which to complete their program of study. For example, a student whose program requires 65 hours may have approximately 95 attempted credit hours to complete the program; or in the case of clock hour programs, a student whose program requires 600 hours may have 900 clock hours to complete the program.

Calculation of maximum allowed hours is based on attempted hours, defined as all hours for which a student has enrolled, including all transfer hours which are relevant to the current program of study. Classes which receive a grade of withdraw (W), incomplete (I), or extension (EX) are considered attempted hours, as are all repeat courses.

Based on student need, a maximum of 30 remedial credit hours may be added to the published required number of credit hours. Transfer hours not applicable to program graduation will be subtracted from the number of credit hours required for graduation, thus a maximum time hour limit would be reduced accordingly. For example, if a student has 25 transfer hours and the program of study requires 65 for graduation, the maximum time-frame is determined by deducting 25 hours from 65 and multiplying the remainder by 150%. This would equal a maximum time-frame of 60 hours. This rule does not apply to clock hour programs.

To ensure consistent progression toward graduation, students must satisfactorily complete a minimum of 70% of cumulative attempted credit hours or clock hours with cumulative GPA of 2.0 or better or a "P" for each course completed in the clock hour program. Academic progress will be monitored each term; or, in the case of clock hour programs of study, at 25%, 50%, 75%, and 100% intervals. Students who do not maintain a 70% completion rate with a minimum cumulative GPA of 2.0, or a "P" for each course completed in the clock hour program, for two consecutive terms or two consecutive 25% intervals respectively will have their financial aid terminated. If extenuating circumstances can be shown to have caused the student to fail to meet this academic standard, the student may appeal (as described below).

The penalty for failure to achieve SAP is termination of aid for at least one term or one 25% interval, or until the student has achieved satisfactory completion of 70% of cumulative enrolled hours with a minimum cumulative GPA of 2.0 or "P" in clock hour programs. Further aid is not awarded until this has been accomplished.

Academic renewal will not impact a student's satisfactory progress. A copy of the complete satisfactory progress policy may be requested at the Financial Aid Office.

APPEAL PROCESS

Students may appeal to the Financial Aid Appeal Committee for an extension of maximum allowed credit or clock hours or for a waiver of satisfactory academic progress requirements based on documented mitigating circumstances. The appeal must be made in writing and must include supporting documents to substantiate the circumstances which brought about the appeal and which were beyond the control of the student. Students who disagree with the Appeal Committee's decision may ask that the documentation and the Committee decision be reviewed by the Director of Financial Aid and/or the Assistant Vice President for Student Enrollment Services. A maximum of three appeals is allowed.

CONDITIONS UNDER WHICH FINANCIAL AID MAY BE WITHDRAWN

- Failure to meet satisfactory progress standards
- Failure to meet conditions of financial aid probation
- Misrepresentation or falsification of application materials for aid or for admission
- Official or unrecorded withdrawal from the College
- Violation of any institutional policy or regulation which could result in suspension or termination from the College
- For Stafford Loans, failure to complete a minimum of 6 hours with a grade of D- or higher.

FINANCIAL AID OVERPAYMENT AND RETURN OF TITLE IV FUNDS POLICY

OVERPAYMENT

An overpayment situation occurs when students receive a Pell Grant and drop classes after funds have been disbursed. For example, if a student receives a Pell Grant based on full-time enrollment and then drops to nine credits, an overpayment will be calculated. Any refund will be credited back to the Pell Grant and the student will be required to pay back any difference between a full-time Pell Grant and a 3/4-time Pell Grant. These funds must be repaid prior to receiving aid for subsequent terms at SLCC or any other institution.

Students attending the School of Applied Technology may have an overpayment if they were paid for a 25% interval, enrolled in classes, and do not attend classes.

RETURN OF TITLE IV FUNDS

Return of Title IV funds occurs when a student receives federal funds and then officially drops, withdraws or ceases attendance without notifying the school. The amount of unearned Title IV aid must be figured. This is determined by

multiplying the percentage of term, or 25% interval for clock hour programs, not attended (based on calendar days including weekends and holidays) by the Title IV aid received. All types of aid—including loans—are used in this calculation. College work-study funds which have been earned will not be included. If a student attended more than 60% of the term, no return of funds will be required.

After the amount of Title IV aid to be returned is calculated, a determination of how much must be returned by the institution and how much must be returned by the student will be determined. Any funds returned by the institution are credited in the order of loans, (Unsubsidized Stafford, Subsidized Stafford, Perkins, PLUS) Pell Grant, FSEOG Grant and other Title IV aid. If the student has any loans (Perkins, Stafford, and Plus) which have been used in the calculation, this obligation will be due and payable by the terms of the promissory note. Any grant funds to be returned by the student will be reduced by 50%. For example, if a calculation determines that a student's grant obligation is $300, the repayment will be $150.

Any return of Title IV funds required by a student must be paid prior to receiving additional financial aid at SLCC or any other institution. Any funds returned by the institution on the student's behalf must be repaid by the student to the College prior to receiving grades or attempting to register for subsequent terms. A complete and detailed explanation of this policy, along with examples, is available at the Financial Aid Office.

GRADUATION

GRADUATION REQUIREMENTS

To be eligible for graduation from SLCC, students must:

1. Student must be a current, matriculated (degree seeking) student.
2. Apply for graduation at least one semester or term prior to completing requirements, and by the priority deadline published in the Academic Calendar.
3. Based on the program requirements most programs require 60 to 72 credit hours of courses numbered 1000 or higher.
4. Complete requirements for a certificate of completion, a diploma, or a degree as outlined in the catalog.
5. Cumulative grade point average (GPA) must be 2.0 or higher.
6. "I" grades necessary for graduation must be completed.
7. Students requesting a substitution must go online to request the substitution.
8. Clear all College financial obligations. Any financial holds must be cleared in order to receive your diploma.
9. Complete a minimum of 25% credit hours from Salt Lake Community College.
10. Repeated course work may only count once in the total credit hours earned for graduation.
11. Diploma name must be the same name as declared on the SLCC student record.
12. Students pursing dual degree programs must apply and pay for each program.
13. Application for graduation is valid for one year. A new application and additional payment will be required after the one-year time period has elapsed.
14. Courses numbered 0001-0999 may not be used toward graduation.

For additional graduation information visit http://www.slcc.edu/graduation.

SCHOOL OF APPLIED TECHNOLOGY GRADUATION REQUIREMENTS

To be eligible for graduating from programs offered through the School of Applied Technology, students must successfully complete their program of study prior to the SLCC graduation date. Students meeting these criteria will be notified by mail.

LETTER OF COMPLETION

Also known as a Letter of General Education Completion, these letters certify that a student has completed General Education requirements. A letter of completion is provided free of charge upon student request (written authorization needed) and can only be issued to colleges and universities operated by the State of Utah. Letters of Completion cannot be issued to any private institution (e.g., BYU, LDS Business College, or Utah Career College) within the state of Utah with the exception of Westminster College who will recognize SLCC Letters of Completion.

A Letter of General Education Completion provides verification to a receiving institution that the student has satisfied the lower division general education requirements for all Utah public colleges and universities. To receive the Letter of Completion for SLCC, the student must complete 9 credit hours at SLCC.

ACADEMIC RENEWAL POLICY

Students admitted to Salt Lake Community College may petition to have poor grades and credits discounted from the GPA calculation of previous coursework. To petition, the student must have an interruption in their education at Salt Lake Community College of at least five consecutive years and meet the policy requirements. The Academic Renewal Policy allows a

returning student the opportunity to improve academic standing at Salt Lake Community College. For information on how to apply, see the Academic Renewal form at http://www.slcc.edu/enrollmentservices/policies.

1. Academic renewal permits returning students to discount previous poor grades and associated credits from grade point calculations under the following conditions:
    a. Returning students must have an interruption in their collegiate education at Salt Lake Community College of five or more consecutive years.
    b. The grades and associated credits to be discounted must be at least five years old.
    c. Academic renewal applies only to courses with grades of D+, D, D-, E or UW.

2. Conditions under which academic renewal will be considered:
    a. The applicant must be enrolled at Salt Lake Community College at the time of application for academic renewal and upon return to Salt Lake Community College, and have completed 6 credits of graded coursework at SLCC with a GPA of 2.0 or above.
    b. Academic renewal may be applied only once during a student's academic career at Salt Lake Community College and it is irreversible.
    c. Not all graded coursework described in 1.3 must be discounted. Students may request specific courses for academic renewal.
    d. Repeated courses and credits are not eligible for academic renewal.
    e. Grades and credits approved for academic renewal will no longer count toward Salt Lake Community College program or graduation requirements.
    f. Courses approved for academic renewal and the course grades will remain on transcripts with an academic renewal notation.
    g. Students will not receive a tuition adjustment or refund for courses granted academic renewal status.
    h. Academic renewal applies only to courses and credits taken at Salt Lake Community College.

PROCEDURE FOR APPLICATION

1. Students need to meet with an Academic Advisor before applying for academic renewal.
2. Students applying for academic renewal must complete and submit the academic renewal application form to the Office of the Registrar and Academic Records.
3. Students must clearly identify courses for which they are requesting academic renewal.
4. Enrollment Services will determine if all conditions have been met; the student will be notified within four weeks.
5. Upon approval for academic renewal, grade point average and credit hours earned will be recalculated and appropriate notations made on the student's record.
6. Academic renewal may not be accepted by transfer institutions or for financial aid satisfactory academic progress requirements.

SALT LAKE COMMUNITY COLLEGE POSTHUMOUS DEGREE POLICY

All Degrees, Certificates of Completion, and Diplomas awarded by Salt Lake Community College may be issued posthumously under the following conditions:

1. The deceased student has completed a minimum of 80% of program and credit-hour requirements for his/her major field of study.
2. The deceased student is in good academic standing and has earned a minimum grade-point average of 2.00 at Salt Lake Community College.
3. The deceased student must have been enrolled at the college within the past two years.

A deceased student not eligible for a posthumous Degree, Certificate of Completion, or Diploma, may be awarded a Certificate of Academic Achievement at the discretion of the College. Visit http://www.slcc.edu/enrollmentservices for further information.

TRANSCRIPTS

The permanent record (transcript) of students' academic achievement is maintained by Enrollment Services. Transcript requests can be processed at Taylorsville Redwood, Miller, South City and Jordan Campus sites for a $5.00 fee per transcript.

UNOFFICIAL TRANSCRIPTS/VIEW TRANSCRIPTS ONLINE

Login to https://mypage.slcc.edu, click on the "Student" tab, and in the "Student Portal" frame click on "Student Records" and then "Academic Transcript." Click [Print Transcript] at the top of the record to print an unofficial transcript.

ORDER OFFICIAL TRANSCRIPTS

Official transcripts are signed by the College Registrar and sealed with an official SLCC seal. Official transcripts are used to

transfer college credit to receiving institutions. The cost of each requested transcript is $5.00. Students are able to request transcripts online, in person, by mail or by fax following the instructions at http://www.slcc.edu/enrollmentservices/transcripts.aspx. SLCC is unable to process transcript requests by phone.

VETERANS SERVICES

Services are available for veterans at the Taylorsville Redwood Veterans Center and at South City Campus. Support and assistance is provided to ALL veterans & service members and their dependents attending SLCC. If you are using your US Department of Veterans Affairs (VA) benefits or are self-pay, seeking to earn a degree or completing School of Applied Technology (SAT) technical training, we are here to support you to succeed.

The SLCC Veterans Center, located on the Taylorsville Redwood Campus offers comprehensive one-stop veteran support services for College and Veterans Services. The Center includes a lounge and study area for all veterans and dependents to use while attending school. Also available in the center is: VetSuccess On Campus Counselor, VITAL Counselor, Veterans Upward Bound, and our Veterans Accessibility Advisor.

School Certifying Officials (SCO's) are College employees. They do not determine student eligibility or percentage for VA benefits. Benefit eligibility decisions are made by VA employees at the Regional Processing Center in Muskogee, Oklahoma. SCO's are required to report College enrollment data to the VA and monitor students' progress.

AS, AA and AAS degree programs at SLCC are approved for the use of VA educational benefits. Many Certificate and Diploma programs are also approved. Any questions concerning program eligibility can be directed to a Veterans Center School Certifying Official at veterans@slcc.edu. SLCC is a Yellow Ribbon school. Check www.slcc.edu/veterans for details.

PROCEDURES AND POLICIES FOR USING GI EDUCATIONAL FUNDING

APPLYING FOR AND VERIFYING VA EDUCATIONAL BENEFIT ELIGIBILITY

Veterans and dependents must select the benefit they choose to receive from the VA. To determine which VA benefit is the best choice visit: http://www.gibill.va.gov/. Choose the benefit carefully as some benefits cannot be changed once selected. Complete the VonApp, Form 22-1990 (Veteran) and 22-5490 (Dependent). Choose the **first day** of the term on your application as your start date as the VA will only pay from the date selected forward. Provide a copy of your submitted application to the Veterans Center to start your benefits claim at SLCC.

> **Chapter 33, TEB and FRY Benefits:** To verify benefit eligibility, students must submit the Letter of Eligibility to the Veterans Center provided by the VA by the end of the first semester. To receive any Living Stipend (aka BAH) student must be attending ***more*** *than ½ time*. Payment is based on the rate of pursuit (number of hours registered). Degree seeking students: Full-time =12 credit hours. DAT students Full-time=18 to 22 clock hours (program specific)
>
> **Purple Heart Recipients:** State tuition waivers are available for **Utah Resident** Veteran recipients. To use waiver: submit DD-214 with Purple Heart classification to the SLCC Financial Aid Office. Tuition is paid by the college and student fees by Veteran. PH waiver can be used in combination with most types of VA benefits. **Chapter 33 only – please see Veterans Services for different options available.**

RULES FOR USING VA EDUCATION BENEFITS

- A cumulative GPA of 2.0 or above must be maintained to receive benefits.
- VA benefits are a reimbursement program. Veteran/dependent must attend a month or part of month and then will be paid the following month.
- Veteran/dependents may only take classes required for graduation in the SLCC declared Major/certificate program. It is the veteran/dependent's responsibility to know the requirements in their program.
- VA will not pay for remedial classes taken through distance education.
- Veterans using Chapter 30, 1606, 1607 and benefits must verify attendance on the last day of each month @ 877-823-2378 or **www.gibill.va.gov wave to receive monthly pay**.
- ALL transcripts must be requested to be sent to the college and complete college request for evaluation form to have transcripts evaluated by the end of 1st term attended. We are required to report non-compliance. Do not register for classes you may be given credit for to avoid overpayment.
- Veterans receive HLAC credit automatically by submitting military transcript. Dependents: VA will pay for one HLAC class only.
- The declared major with the VA **must** be the same as SLCC or classes will not be certified.
- Repeated classes are not paid for unless an 'E' grade is received or if the catalog states a requirement of a higher

grade to move on to the next class. A class may be repeated ONE time without financial penalty.

- Failure to complete a class through a drop or a withdrawal may result in a VA overpayment.
- If a student stops attending class for circumstances out of their control, complete VA Form 4138 including last date of attendance and provide supporting documentation to the Veterans Center. **WARNING**: Requesting a SLCC tuition appeal **may place you in overpayment**. Talk to a certifying official to determine your best option.
- SLCC is required to ensure that no program enrolls more than 85% veterans and 15% non-veterans. If any program reaches the 85% veteran maximum, we will not be able to certify new students until a space is available.

USING VA EDUCATIONAL BENEFITS AT SLCC

- Students must notify the Veterans Center of their intent to use benefits each semester/term by sending an email to veterans@slcc.edu with your name, student #, term to be certified and number credit hours. Schedules are processed in the order received.
- Notify the Veterans Center of class changes by email to veterans@slcc.edu indicating name, student #, class and last day attended. **Change in class schedules are processed after the last day to drop class at 100% each semester**
- Tuition/fees not paid by the VA must be paid by the veteran/dependent. Late fees will not be waived.
- Any letter received from the Debt Management Center by the student should be sent to veterans@slcc.edu immediately. SLCC will research debt. SLCC is not responsible for any collection fees incurred due to late submission of letters.
- Address or phone number changes must be made with the SLCC Veterans Center by email, on the College account through the MyPage account **AND** with the VA through e-benefits.
- All correspondence from the Veterans Center is sent to the college student email address. It is the responsibility of the student to check it often.

COLLEGE POLICIES

UNSCHEDULED COLLEGE CLOSURES

Information Hotline (801) 957-INFO (957-4636) SLCC normally remains open, running on schedule even during inclement weather. However, in cases of unusually severe weather or other unanticipated conditions, it is possible the College schedule may change: one or more sites may be closed or may open late, classes may be canceled, staff offices may be closed or evening classes may be dismissed early. For information about any unscheduled College closure, check the College homepage or call the information hotline listed above. Information is posted to the homepage, and is available on the hotline as soon as any decisions affecting class status are made. The information is updated whenever conditions change.

CHANGES IN LAWS, RULES and POLICIES

1. Although every effort has been made to assure accuracy of information in this catalog, students and others should note that laws, rules and policies change periodically. Often, such changes alter the information contained in this publication. It is not possible in a publication of this size to include all rules, policies, and other information which pertain to students or Salt Lake Community College. The most current or complete information may be obtained from appropriate departments and divisions. Changes may be implemented without prior notice and without obligation and, unless specified otherwise, are effective when made. Nothing in this catalog shall be construed, operated as, or have the effect of an abridgment or a limitation of any rights, powers or privileges of the Utah State Board of Regents, SLCC's Board of Trustees, or SLCC's President. This catalog does not constitute a contract or the terms and conditions of a contract between students and the institution. The relationship of students to the institution is one governed by statute, rules, and policy adopted by the Utah Legislature, Board of Regents, Board of Trustees, the President and their duly authorized designees.
2. Advisors are provided to assist students in planning academic programs. They are not authorized to change established policy. Students are solely responsible for assuring that their academic programs comply with College policy. Any variance with established policy must be confirmed by a division chair.
3. SLCC has the right to terminate or modify programs and/ or program requirements, content and the sequence of program offerings from semester to semester for reasons it deems sufficient to warrant such action.
4. Course descriptions are based on reasonable projections of faculty, faculty availability, facilities, and curriculum considerations. They are subject to change based on changes in circumstances.
5. Accreditation, approvals, and certification of SLCC are based on the institution's status at the time of printing this catalog. They are subject to review and modification from time to time.
6. SLCC disclaims liability of any kind for injury or illness of students as a result of participation in activities connected with the College. Every reasonable effort is made to provide safe conditions for conducting all activities.

STUDENT EMAIL (BRUINMAIL) POLICY

All Salt Lake Community College students are issued an email account (BruinMail, powered by Google Apps for Education) for use throughout students' College career and beyond. Accordingly, email is considered an official channel for communication between the College and students. Email services are provided to students of Salt Lake Community College in support of the teaching, learning, and outreach mission of the College and the administrative functions to carry out that mission. Email may not be used for unlawful activities.

POLICY

A College assigned student email account shall be the College's official means of communication with all Salt Lake Community College students. The College reserves the right to send official communications to students by email with the full expectation that students receive and read emails in a timely fashion.

ASSIGNMENT OF STUDENT EMAIL

Official College email accounts, known as BruinMail accounts, are available for all registered and admitted students. Official College communications will be sent to students' official College BruinMail address.

Students are expected to check their BruinMail account frequently and consistently to stay current with College-related communications. Students must ensure sufficient space in accounts to allow for email delivery. Students are required to recognize certain communications as time-critical. Students will not be held responsible for an interruption in the ability to access a message if system malfunctions or other system-related problems prevent timely delivery of, or access to, said message (e.g., power outages or email system viruses).

COURSE RELATED USE OF EMAIL

Faculty may assume a student's official College email is a valid mechanism for communicating with a student. Faculty must exercise caution when including sensitive data, such as grades, in email messages. This policy will ensure all students may comply with course requirements communicated via email from course instructors.

FORWARDING OF EMAIL

Students who "forward" the BruinMail account to a private (unofficial) email address outside the official College network address do so at their own risk. The College is not responsible for any difficulties that may occur in the proper or timely transmission or access of email forwarded to any unofficial email address. Any such problems will not absolve students of the responsibility to know and comply with the content of official communications sent to official BruinMail email addresses.

Use of a private account requires students to keep the account active and available to receive messages. Some commercially available accounts, such as Hotmail, Gmail, Yahoo!mail, etc., may be automatically blocked if specified storage limit is exceeded or may be automatically closed without regular login activity. Students who choose to forward the SLCC email to a different account are responsible to ensure receipt of official College communications forwarded to the personal account. Salt Lake Community College is not responsible for lost or deleted email due to account closures or storage restrictions.

STUDENT RIGHT TO KNOW

In accordance with the Student Right-To-Know and Campus Security Act (P.L. 101-542, amended by P.L. 102-26), Salt Lake Community College conducts an annual study of persistence and graduation rates of full-time freshman who have not previously attended college. Results of this yearly study and information regarding security issues are published online at www.slcc.edu/disclosures. A printed copy is available from Enrollment Services.

STUDENT PRIVACY RIGHTS

The Family Educational Rights and Privacy Act (FERPA) afford students certain rights with respect to their education records. These rights are:

THE RIGHT to inspect and review the student's education records within 45 days of the day the College receives a request for access. Students should submit written requests identifying the record(s) they wish to inspect to the Registrar. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If records are not maintained by the Registrar, he/she shall advise the student of the correct official to whom the request should be addressed.

THE RIGHT to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the College to amend a record that they believe is inaccurate or misleading. They should write the College official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the College decides not to amend the record as requested by the

student, the College will notify the student of the decision and advise the student of the right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to hearing.

THE RIGHT to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record to fulfill his or her professional responsibility. Upon request, the College may disclose education records without consent to officials of another school in which a student seeks or intends to enroll.

NOTE: SLCC has contracted with the National Student Clearinghouse to provide verification of student enrollment and degrees or certificates earned. The National Student Clearinghouse is considered a "school official" acting with "legitimate educational interests."

THE RIGHT to file a complaint with the U.S. Department of Education concerning alleged failures by SLCC to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, S.W.
Washington, D.C., 20202-4605

Personally identifiable information or records relating to a student will not be released to any individual, agency or organization without the written consent of the student as described in FERPA regulations, except Directory Information, which may be released upon request unless the student specifically withholds permission to do so.

Directory information includes:

Student's name
Address
Telephone number
Email address
Date of birth
Major program of study
Dates of attendance
Enrollment status
Degrees and awards received
Most recent previous educational agency/institution
Participation in recognized activities/sports

TO WITHHOLD THE RELEASE OF DIRECTORY INFORMATION

Students or alumni must complete a Request to Prevent Disclosure of Directory Information form to withhold release of directory information. The form is available at the Office of the Registrar and Academic Records webpage: http://www.slcc.edu/enrollmentservices/forms.aspx

AMERICANS WITH DISABILITIES ACT (ADA)

SLCC embraces both the letter and the spirit of the Americans with Disabilities Act (ADA), which in part says, "... no qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs or activities of a public entity, or be subjected to discrimination by any such entity." For more information, STUDENTS should contact the Disability Resources Center at (801) 957-4659 (Voice) or (801) 957-4646 (TTY). EMPLOYEES should contact Human Resources at (801) 957-4212. For the SLCC ADA Coordinator, call (801) 957-4041.

EQUAL OPPORTUNITY/AFFIRMITIVE ACTION

Salt Lake Community College is an equal opportunity institution providing education and employment opportunities without regard to race, color, gender, sexual orientation, religion, national origin, disability, age and/or veteran status. Inquiries

concerning the above, including the application of Title I, Title VI, Title VII, Title IX, or Section 504* may be referred to the SLCC Director of Equal Employment Opportunity at (801) 957-4561.

*DEFINITIONS:

Title I - American Disabilities Act
Title VI - Civil Rights Act
Title VII - Civil Rights Act
Title IX - Educational Amendments of Rehabilitation Act
Section 504 - A Section of the Age Discrimination in Employment Act

CRIME AWARENESS AND CAMPUS SECURITY REPORT

Safety and well-being of students, visitors and employees is a high priority at SLCC. The full support and cooperation of the entire college community is required to allow for the pursuit of knowledge in a safe and secure environment. The *Crime Awareness and Campus Security Report* issued to faculty, staff, and students is designed to comply with the Student Right-To-Know and Campus Security Act of 1990 (34 CFR 668.47) and amendments.

It is annually updated to provide current information to all students, employees, or any applicant for enrollment or employment at the College. This report includes information about campus law enforcement, reporting of criminal activity, crime awareness and prevention, and campus crime statistics.

To obtain copies, call the SLCC Public Safety Department at (801) 957-4270 or visit www.slcc.edu/disclosures.

STUDENT CODE OF CONDUCT

Salt Lake Community College seeks to provide a safe and secure environment for its community through the dissemination of the Student Code designed to respect and protect the rights and well-being of its members, and without disruption of individual's pursuit of education. The College reserves the right to suspend or dismiss students for failure to adhere to rules outlined in the Code for conduct detrimental to the interest to conform to the College community. Adherent to this right, the College may subject students to disciplinary action for conduct contrary to College policy on or off campus. The primary objective for the administration of discipline under the Student Code of Conduct is to foster ethically responsible behavior and protect the campus community.

The Code outlines the specific rights which students are guaranteed and the responsibilities students have as community members. It also specifically outlines the procedures for hearing cases of student misconduct, grievances, and academic dishonesty issues.

CODE AVAILABILITY

Students may obtain a complimentary printed copy of the Student Code of Conduct from the Dean of Students Office (STC 276) Taylorsville Redwood Campus. Students also may request printed copies from Student Services offices at all other SLCC locations. (The Student Code is available from the home page within the A-Z listings.)

STUDENTS RIGHTS AND RESPONSIBILITIES

Students accept both the rights and obligations of citizenship. They retain and enjoy all rights secured by the Constitution and local, state or national laws. Rights and freedoms are best preserved in a community whose members are mutually tolerant of the exercise of rights and freedoms and whose members are free from physical violence, force, abuse and threat. Toward that end, SLCC has adopted certain personal and organizational standards, policies and procedures that govern the responsibilities and behavior of its members. Violations are grounds for judicial action and possible disciplinary sanctions. Any students who assist, encourage or incite others to violate SLCC policies are similarly subject to such action.

Daily responsibility for good conduct rests with the students. All members of the College community are expected to use reasonable judgment in their daily campus life and to show due concern for the welfare and rights of others. Ultimate responsibility and authority to enforce the Student Code of Conduct rests with the College President. The President may, and has, delegated responsibility for administration of the discipline system to the Vice President of Student Services. The Vice President delegates responsibility to the Dean of Students. All procedures followed and decisions made by authorized hearing officers and bodies are approved by appropriate Vice Presidents and may be subject to Presidential review.

SLCC reserves the right to take any necessary and appropriate action to protect the safety and well-being of the campus community.

ACADEMIC HONESTY

Honesty is an expectation at SLCC. This means that each member of the College community will adhere to principles and rules of the College and pursue academic work in a straight forward and truthful manner, free from deception or fraud. Any attempt to deviate from these principles is academic dishonesty and will be dealt with according to rules of due process as outlined.

Students are also held to the College policy on acceptable use of college computing resources; which, prohibits the distribution of passwords or confidential information; sending, receiving or storing fraudulent, harassing or obscene messages; and the encroachment of computer resources or any attempt to break, or override the security of the College computers.

FAIR AND EQUITABLE DISCIPLINARY PROCESS

The SLCC social discipline system is established in accordance with the concept of due process. Due process, as used herein, consists of two parts. First, students will know in advance what conduct is unacceptable, and the consequences of such conduct. It requires rules and regulations of student behavior that are reasonable, clear, and precise, clearly communicated, and fairly and consistently administered (substantive due process). Second, students will be given a statement of charges against them and a fair opportunity to be heard and to present witnesses before a decision is rendered (procedural due process).

CAMPUS POLICY ON ALCOHOL, TOBACCO AND OTHER DRUGS

SLCC code prohibits possession, consumption or distribution of hallucinogenic, narcotic or other illegal drugs. The code also prohibits possession, consumption or distribution of alcoholic beverages on any property owned or leased by the College and at any college activity. Campus members may be subject to prosecution by civil authorities for violation of state and federal laws. Violation of the alcohol, tobacco and other drug policies will be handled through the Dean of Students. The sanctions taken may include, but are not limited to: referral for assessment by Health and Wellness Services, appearance before the Student Standards Committee, probation or expulsion.

ALCOHOL, TOBACCO, AND OTHER DRUG LAWS	PENALTIES
DUI: It is illegal to drive or be in physical control of a vehicle or motorboat, even when parked, while under the influence of alcohol, any drug, or the combined influence of alcohol and any drug if impaired. Utah's Implied Consent law requires submission to blood alcohol content (BAC) test. Refusal will result in revocation of license for one year. You are in violation if your BAC is .08 or greater or if you are incapable of operating a vehicle.	Up to 6 months imprisonment &/or $1,000 fine, rehabilitation assessment & education class, suspension of license for 90 days, $100 to victim restitution fund. Accident, injury or death will increase penalties. Class B misdemeanor.
Minors: It is illegal to sell or supply alcohol to a minor.	Maximum penalty: 1 year imprisonment and/or $2,500 fine; Class A misdemeanor.
(MIP) Minor in Possession: It is unlawful for any person under the age of 21 years to purchase, attempt to purchase, solicit another person to purchase, possess, or consume any alcoholic beverage or product.	Maximum Penalty: Up to 6 months imprisonment and/or $1,000 fine plus suspension of driver's license up to one year: Class B misdemeanor.*
Not-a-Drop Law: You are in violation if you are under 21, have consumed any amount of alcohol and are driving.	Lose license for 90 days, required substance abuse assessment, & may still face MIP laws.
Intoxication: It is illegal to sell or supply to intoxicated persons or to purchase alcohol if intoxicated.	Maximum penalty is 6 months imprisonment and/or $1,000 fine; Class B misdemeanor.
It is illegal to drink in a public building, park or stadium, or to be so intoxicated that you disturb others or injure yourself or others.	Maximum penalty is 90 days imprisonment and/or $1,000 fine; Class B misdemeanor.
Open Container: It is illegal to drink any alcoholic beverage while operating or riding as a passenger in a motorized vehicle, whether that vehicle is moving, stopped, or parked on any highway, street, or area of traffic.	Once a container has been opened, one can be arrested for possession. Violating an open container law is a Class B misdemeanor, which carries a maximum penalty of 6 months imprisonment and/or $1,000 fine.**
Tobacco use or possession: To buy, use, or possess any tobacco product by any person under age 19 is illegal. It is illegal to sell or furnish any tobacco product to any person under age 19.	Maximum $750 fine. Class C misdemeanor.

Clean Air Act: Prohibits smoking in a place of public access, public meeting or any government building (All buildings on SLCC campus) "Smoking means the possession of any lighted or heated tobacco or nicotine product in any form. "Lighted Tobacco" means both tobacco that is under self-sustained combustion and tobacco that is heated to a point of smoking or vaporizing.	Maximum $500 fine. Class C misdemeanor.
Protection of Air Used for Ventilation: Smoking is not permitted within 25 feet of any entrance-way, exit, open window, or air intake of a building here smoking is prohibited.	
Possession or sale of drug-related paraphernalia	Maximum penalty: 5 years imprisonment and/or $5,000 fine; third degree felony.*
Sale or use of inhalants to get high	Maximum penalty: 6 months imprisonment and/or $1,000 fine; misdemeanor.*
Possession or use of imitation controlled substances	Maximum penalty: 90 days imprisonment and/or $750 fine; misdemeanor.*

* All penalties enhance one degree if incident occurs within 1000 feet of a school, church, stadium, theatre, sports complex, etc.
** Unless it is completely inaccessible to driver and passengers.

TOBACCO HEALTH RISKS

Possible Effects: Extremely psychologically and physically addictive. Risks of smoking include: high blood pressure, increased heart rate, stroke, heart muscle spasms (angina); shortened life expectancy; lung, larynx, mouth, bladder, esophageal, and pancreatic cancer; coronary heart disease; chronic bronchitis and pulmonary emphysema; impaired immune system; allergy system; allergy; peptic ulcers; in pregnancy smoking contributes to stillbirths and low birth weight babies more vulnerable to disease and death. Risks of "spit" tobacco or "chew" include: noncancerous oral conditions, oral leukoplakia, loss of salivary gland function, cancer of the mouth, inflammation and receding of gums, tooth decay, bad breath, discoloration of teeth, and tooth loss.

Secondhand Smoke Effects: Nonusers (especially children of smokers) exposed to other's smoke can experience lung cancer, heart disease, asthma, and bronchitis.

Withdrawal Symptoms: Withdrawal from repeated and frequent tobacco use can cause headaches, nervousness, fatigue, hunger, severe irritability, poor concentration, sleep disturbances, and intense nicotine craving.

ALCOHOL HEALTH RISKS

Possible Effects: Psychological & physical addiction, respiratory depression, depression of the immune system, increased risk of accidents, injury due to violence, heart disease, cancer, hypertension, brain damage, impotence at high dosage levels, drunk driving crashes. In addition, alcohol use increases the risk of unwanted sex, unwanted pregnancy, sexually transmitted diseases and acquaintance/date rape. Mothers who drink during pregnancy may give birth to infants with Fetal Alcohol Syndrome or Fetal Alcohol Effect. These infants may have irreversible physical abnormalities and mental retardation. Research indicates that children of alcoholic parents are at greater risk than other people of becoming alcoholics.

Withdrawal Symptoms: Repeated alcohol use can lead to dependence. Sudden cessation is likely to produce withdrawal symptoms including: severe anxiety, tremors, hallucinations and convulsions. Alcohol withdrawal can be life threatening. Long term consumption of large quantities of alcohol, combined with poor nutrition, can also lead to permanent vital organ damage.

Effects of Overdose: Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

For more information on the health effects of alcohol, tobacco and other drugs, please visit the Health & Wellness Services website at http://www.slcc.edu/hw

Health & Wellness Services
Redwood, STC 035, 801-957-4268
South City, W175, 801-957-3323
Jordan, JHS 011, 801-957-6211

Visit http://www.slcc.edu/hw/docs/pdf-forms/ATODCampusPolicyRev.5.3.12.pdf for a complete listing of laws and penalties.

DEGREES AND GENERAL EDUCATION REQUIREMENTS

DEGREES AND CERTIFICATES

SLCC offers the following degrees:

- Associate of Arts
- Associate of Science
- Associate of Pre-Engineering
- Associate of Applied Science

SLCC also offers the following certificates:

- Diploma
- Certificate of Completion
- Certificate of Proficiency
- Certificate of Achievement

Each of the following definitions includes the applicable requirements from Utah State Board of Regents policy R401.

ASSOCIATE OF ARTS (AA) AND ASSOCIATE OF SCIENCE (AS) DEGREES

Associate of Arts (AA) and Associate of Science (AS) degrees are programs of study approved by the Board of Regents that are primarily intended to encourage exploration of academic options and prepare students for upper-division work in baccalaureate programs and/or for employment. A minimum of 61 total credits, including a minimum of 34 credits of general education coursework and 27 credits of other coursework, are required for completion of these degrees at SLCC. Individual programs may specify in their catalog entries whether general education credits beyond the 34-credit minimum can be counted toward the 61 credits of coursework necessary to earn the associate's degree; where not specified, excess general education credits can be counted. The Associate of Arts degree requires successful completion of any language course at the 1020 level or higher as part of the 27 credits beyond general education. Associate's degrees are no more than 63 credits in length unless an exception has been granted by the Board of Regents. Pre-majors, which consist of recommendations for specific courses to take at SLCC in preparation for a particular baccalaureate major, are defined in a variety of areas as outlined in this catalog.

The Associate of Arts (AA) and Associate of Science (AS) degrees are called "transfer" degrees because they satisfy the lower division general education requirements and select pre-major requirements for a baccalaureate degree at all public institutions of the Utah System of Higher Education. However, completion of an AS or AA degree at SLCC does not guarantee automatic acceptance into a specific major when transferring; some four-year programs are restricted and may require a special application, a competitive GPA, or other admission requirements.

SLCC continually strives to articulate course offerings with other colleges and universities in Utah and elsewhere so that a course taken at SLCC is counted equivalently at other institutions. SLCC academic advisors and advisors at a student's intended transfer institution can assist students with specific course articulation information. For further information about transferring, see the Academic Policies and Procedures section of this catalog.

ASSOCIATE OF PRE-ENGINEERING (APE) DEGREES

Associate of Pre-Engineering (APE) degrees are programs of study approved by the Board of Regents that are intended to prepare students to initiate upper-division work in baccalaureate engineering programs. APE degrees require significant specialized coursework and general education requirements that may be less extensive than in AA or AS degrees. Because students might not fully complete SLCC's general education requirements while completing a specialized associate's degree, they are expected to satisfy remaining general education requirements in addition to upper-division baccalaureate requirements to earn a baccalaureate degree. Generally, graduates of SLCC's Associate of Pre-Engineering programs transfer seamlessly into engineering majors at public institutions of the Utah System of Higher Education. In some cases, students must select specific courses at SLCC depending upon where they intend to transfer; see engineering program descriptions for specific program requirements.

Completing an APE degree does not guarantee automatic acceptance into an engineering major at other colleges and universities. Most four-year engineering programs are restricted and require a special application and a competitive GPA.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREES

Associate of Applied Science (AAS) degrees are programs of study approved by the Board of Regents that are primarily intended to prepare students for entry-level careers. A minimum of 63 and a maximum of 69 credit hours are required for completion of these degrees. At SLCC, the AAS degree requires a minimum of 14 credits of general education coursework (11-14 credits in core academic skills and 3-6 credits in distribution courses). Many of the courses contained in AAS degrees will transfer to other institutions due to articulation agreements. Check with individual department coordinators or academic advisors for specific transfer information. Some Utah institutions will also accept credits from certain AAS degrees and apply them toward baccalaureate degree programs. Students who complete an AAS degree may complete additional general education courses to obtain an AS degree from SLCC.

An AAS Emphasis indicates a specific subject or focus area within a defined AAS program. The emphasis requirements fulfill the requirements for the AAS degree and are indicated as an emphasis of the AAS degree on a student's transcript and diploma, e.g., "Associate of Applied Science in Architectural Technology/CAD and Computer Graphics Emphasis."

DIPLOMA

For the 2014-15 academic year, SLCC offers a single diploma in Biomanufacturing. This program consists of a coherent sequence of courses with a total program length of 47-49 credits including general education requirements. For additional details, please see the program's catalog entry.

CERTIFICATES OF COMPLETION

Certificates of Completion are programs of study approved by the Board of Regents that consist of a coherent sequence of courses typically one year in length (30-33 semester credit hours or 900-990 clock hours). Based on compelling reasons, exceptions to the maximum credit hour requirement may be granted by the Regents. Certificates of Completion may be entry-level or may require prerequisites of related industry experience and/or previous course work or degree attainment. Certificates of Completion include clearly identifiable instructional components in communication, computation, and human relations. These components can either be standalone general education courses or embedded within other program courses.

CERTIFICATES OF PROFICIENCY

Certificates of Proficiency are programs of study approved by the Board of Regents that consist of a coherent sequence of courses typically less than one year in length (16-29 semester credit hours or 600-899 clock hours). Certificates of Proficiency may be entry-level or may require prerequisites of related industry experience and/or previous course work or degree attainment. Certificates of Proficiency are not eligible for federal financial aid.

CERTIFICATES OF ACHIEVEMENT

Certificates of Achievement are programs of study not requiring approval by the Board of Regents that result in a certificate issued by an individual department/division/school and not under the authority of the Board of Regents. These are typically designed to meet immediate workforce training or community education needs. Certificates of Achievement are not recorded on an SLCC transcript, do not become part of a student's permanent academic record, and are not eligible for federal financial aid. A Certificate of Achievement has no minimum or maximum length requirements or minimum general education requirements.

GENERAL EDUCATION CERTIFICATE OF COMPLETION

The Certificate of Completion in General Education meets the Utah System of Higher Education (USHE) general education requirements as outlined in Board of Regents Policy R470. The Certificate provides verification to all USHE institutions that the student has satisfied the lower division general education requirements of an AS or AA degree. The Certificate of Completion in General Education is awarded when a student completes all of the general education requirements for an AA or AS degree as described below. Students must complete 9 credit hours or 25% of the required credits directly from SLCC, must hold matriculated status, and must earn an overall grade point average of at least 2.0 on a 4.0 scale. This Certificate of Completion is not a stand-alone program; students seeking a degree should enroll in their program of choice. The Certificate will be posted to the students' academic record when they apply for graduation in their degree program.

STACKABLE CREDENTIALS

Just as an AA or AS degree can be used to fulfill some of the requirements for a baccalaureate degree, certificates can be used to fulfill requirements of many degrees. In some cases, two or more certificates can be "stacked" together to fulfill the requirements for an AA, AS, or AAS degree. In other cases, certificates are meant to be "stacked onto" other degrees to give a student additional skill sets. Check with the appropriate program advisor for additional information.

SAMPLE SCHEDULES
Most two-year degrees can be completed in four semesters if a student enrolls full time (15 credits or more). Students must carefully plan their schedules based on required prerequisites and class availability. Consulting with an SLCC academic advisor is recommended for such planning. Sample schedules are included with each program catalog entry.

CAREER AND TECHNICAL EDUCATION(CTE)

Career and Technical Education (CTE) includes a wide range of programs, either credit or non-credit, specifically designed to prepare students to enter the workforce immediately upon completion. Every AAS degree, Diploma, and Certificate program at SLCC is a CTE program. Students in CTE programs are highly recruited by business and industry. SLCC has relationships with many employers in the community and can help CTE graduates enter a career upon graduation. Industry leaders serve on the 48 Program Advisory Committees that advise SLCC's CTE programs on curriculum and workforce preparation issues. In some cases, students may be hired before they graduate and are able to complete their education at an employer's expense. Many CTE and university graduates return to SLCC for recertification or continuing education throughout their careers.

SLCC partners with more than 30 local high schools and allows students to begin CTE training during high school through SLCC's concurrent enrollment program. Concurrent enrollment allows students to earn high school and college credit at the same time, expediting their entry into the workforce.

To learn more about SLCC Career and Technical Education opportunities go to www.slcc.edu/cte.

APPRENTICESHIPS

Apprenticeship students attend class two times a week in the evening and work in a paid industry position during the day. Students must be employed in a qualifying trade and (in most cases) sponsored by their local trade union. Total completion of an Apprenticeship program may take three to five years depending upon the trade. High School Concurrent Enrollment is available in some trades.

Apprenticeship Department
Taylorsville Redwood Campus
Construction Trades Building, Room 274
(801) 957-4066
www.slcc.edu/apprenticeship

CONTINUING EDUCATION

Continuing Education (CE) focuses on programs designed to meet the needs of community members, business, industry, agencies, and working professionals. Programs range from on-going career oriented programs to customized training focused on development of a particular skill. CE also delivers on-site programs and courses for many employers.

Division of Continuing Education
Miller Campus
9750 S 300 W
Sandy, UT 84070
(801) 957-5303
www.slcccontinuinged.com

SCHOOL OF APPLIED TECHNOLOGY

The School of Applied Technology offers a variety of non-credit CTE courses and programs ranging from 10 to over 1200 clock hours in length at five SLCC campuses/centers. It also offers classes in Adult Basic Education (Reading, Writing, and Math), GED preparation, English as a Second Language (ESL) and other vocational preparation basic skills courses. All programs are VA eligible and most programs 600 clock hours in length or longer are eligible for federal financial aid.

School of Applied Technology
South City Campus
1575 South State Street, Room 1-061
Salt Lake City, Utah 84115-1610
(801) 957-3354
www.slcc.edu/sat

COURSE NUMBERING INFORMATION
Courses at Salt Lake Community College are identified by an alphabetic prefix (two to four letters) followed by a four-digit number. Numbers beginning with a "1" generally indicate a course designed primarily for freshman (such as ENGL 1010); numbers beginning with a "2" generally indicate courses designed primarily for sophomores (such as MATH 2010); numbers beginning with a "0" are non-transferable (such as DE 0900.)

GENERAL EDUCATION REQUIREMENTS

WHY GENERAL EDUCATION?

General education courses teach basic skills and broaden students' knowledge of a wide range of subjects. Education is much more than the acquisition of facts; it is gaining the strategies and skills to use information in meaningful ways in order to enrich one's life. Students become truly educated through making connections across disciplines. The General Education Learning Outcomes mirror the College-Wide Unified Learning Outcomes. Through the General Education program, students at SLCC will:

1. **Acquire substantive knowledge throughout the general education requirements.**

2. **Communicate effectively.**
   Students communicate effectively. This includes developing critical literacies—reading, writing, speaking, listening, visual understanding—that they can apply in various contexts; organizing and presenting ideas and information visually, orally, and in writing according to standard usage; and understanding and using the elements of effective communication in interpersonal, small group, and mass settings.

3. **Develop quantitative literacies necessary for their chosen field of study.**
   Students develop quantitative literacies necessary for their chosen field of study. This includes approaching practical problems by choosing and applying appropriate mathematical techniques; using information represented as data, graphs, tables, and schematics in a variety of disciplines; and applying mathematical theory, concepts, and methods of inquiry appropriate to program-specific problems.

4. **Think critically and creatively.**
   Students think critically and creatively. This includes reasoning effectively from available evidence; demonstrating effective problem solving; engaging in creative thinking, expression, and application; engaging in reflective thinking and expression; demonstrating higher-order skills such as analysis, synthesis, and evaluation; making connections across disciplines; and applying scientific methods to the inquiry process.

5. **Develop the knowledge and skills to be a community engaged learner and scholar.**
   Students develop the knowledge and skills to be civically engaged. This includes understanding the natural, political, historical, social, and economic underpinnings of the campus, local, national, and global communities to which they belong; developing the awareness of both civil rights and civil responsibilities for individual and collective action in a democracy; engaging in service-learning for community building and an enhanced academic experience; and developing the knowledge and skills to take leadership roles.

6. **Develop the knowledge and skills to work with others in a professional constructive manner.**
   Students develop the knowledge and skills to work with others in a professional and constructive manner. This includes engaging with a diverse set of others to produce professional work; interacting competently across cultures; understanding and appreciating human differences; and understanding and acting on standards of professionalism and civility, including the SLCC Student Code of Conduct.

7. **Develop computer and information literacy.**
   Students develop computer and information literacy. This includes using contemporary computer hardware and software to effectively complete college-level assignments; gathering and analyzing information using technology, library resources, and other modalities; understanding and acting upon ethical and security principles with respect to computer technology and to information acquisition and distribution; and distinguishing between credible and non-credible sources of information and using the former in their work in an appropriately documented fashion.

8. **Develop the attitudes and skills for lifelong wellness.**
   Students develop the attitudes and skills for lifelong wellness. This includes understanding the importance of physical activity and its connection to lifelong wellness and learning how participation in a fitness, sport, or leisure activity results in daily benefits including stress reduction, endorphin release, and a sense of well-being.

GENERAL EDUCATION ePORTFOLIO

Electronic Portfolios (ePortfolios) are a course-level requirement in all general education courses at SLCC. Students in each general education course will be asked to put at least one signature assignment into his/her ePortfolio. As students take general education courses, they will build a showcase of their breadth and depth of knowledge and skills.

Instructors will also ask students to reflect on the signature assignment put in the portfolio, on its connection to other general education assignments, on the students' own intellectual growth, on the connection between general education and the program of study, and/or on progress toward SLCC's college-wide learning outcomes. Moreover, the General Education ePortfolio will allow students to document goals, extracurricular activities, and work in their program and elective courses.

While instructors are responsible for making assignments, helping students complete them successfully, and grading them, faculty are not responsible for helping the student build the ePortfolio itself. SLCC has ePortfolio labs with expert staff, workshops and online tutorials that can help. For more information about this help and the overall General Education ePortfolio initiative, visit www.slcc.edu/gened/eportfolio.

TRANSFER NOTE: SLCC's AS or AA degrees satisfy the lower division general education requirements for a Baccalaureate degree at Utah's public colleges and universities as well as Brigham Young University and Westminster College. Students who transfer without the AS or AA degree may elect to complete SLCC's general education requirements and obtain a General Education Certificate of Completion, which will also be recognized by Utah's public colleges and universities as satisfying lower-division general education requirements. Students transferring to BYU without an AS or AA degree should obtain advising in the selection of general education courses.

ASSOCIATE OF SCIENCE (AS) / ASSOCIATE OF ARTS (AA) DEGREE GENERAL EDUCATION REQUIREMENTS

AS and AA degrees require a minimum of 34 credit hours of general education requirements as outlined below. Unless specified by program, individual courses can meet multiple degree requirements. The AA degree also requires successful completion of any language course at the 1020 level or higher as part of the 27 credits beyond general education (see Language and Culture program entry in the catalog for details). Students must complete a minimum of 61 credits, including the general education requirements, to graduate with an AS or AA degree.

NOTE: Some academic programs may recommend different courses for the general education requirements than those listed below. General education recommendations are not requirements, but faculty have decided that such recommendations may aid the student in the future, especially when transferring. See academic programs listed alphabetically in the program descriptions section of this catalog.

CORE SKILLS –

COMPOSITION (EN): 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

NOTE: Students whose test scores places them into ENG 2010 still need to complete two English Writing courses (6 credits) to satisfy the Composition (EN) Core Skills general education requirement. In addition to ENGL 2010, choose from one of the following: ENGL 1010, ENGL 2100, ENGL 2250, BUS 2200, or take the English CLEP exam (contact SLCC Testing Center).

QUANTITATIVE LITERACY (QL): 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry (QL)	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1080	Precalculus (QL)	5	A	Appropriate Accuplacer score within the last year
MATH 1090	College Algebra-Bus (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I (QL)	4	A	Within last year MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

NOTE: In selecting a QL course to fulfill general education requirements for an AS or AA, students must consult their academic program and the institution to which they intend to transfer. Math requirements may vary at four-year institutions.

AMERICAN INSTITUTIONS (AI): 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
OR				
HIST 2700 & HIST 2710	US History to 1877 (SS) US History Since 1877 (SS)	6	A	

INSTITUTIONAL REQUIREMENTS –

LIFELONG WELLNESS (LW): 1 CREDIT

Any course designated in its title as (LW) – includes most HLAC courses, some DANC courses, and HLTH 1240.

STUDENT CHOICE (IN or DEPTH): 3 CREDITS

INTENSIVE (IN)

COURSE		CR	SEM	PREREQUISITE
BUS 1010	Intro to Business (IN,HR)	3	A	
BUS 2200	Business Comm (CM,IN)	3	A	
COMM 1010	Elem Effective Comm(CM,IN)	3	A	
COMM 1020	Prin Public Speaking(CM,IN)	3	A	
COMM 1270	Analysis of Argument (IN)	3	F, Sp	
PHIL 1250	Reasn/Ratl Dec Making (IN)	3	A	
TECH 1030	Complex Devices Simple(IN)	3	F,Sp	
OR				

DEPTH

Any second course from one of the Distribution Areas

DISTRIBUTION AREAS: 18-21 CREDITS

Students must take one course (3 -4 credits) from each of the following six distribution areas. One of the six courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: Some courses may be cross-listed between distribution areas, but each may only count as fulfilling one distribution area. See individual program descriptions for possible program-specific recommendations for course selection in these distribution areas.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS) GENERAL EDUCATION REQUIREMENTS

AAS degrees require a minimum of 14 credit hours of general education requirements as outlined below. Students must complete a minimum of 63 credits, including the general education requirements, to graduate with an AAS degree. Unless specified by program, individual courses can meet multiple degree requirements.

NOTE: Some academic programs may recommend different courses for general education. Recommendations are not requirements, but faculty have decided that such recommendations may aid the student in the future, especially when transferring. Check specific program descriptions provided in this catalog.

CORE SKILLS –

COMPOSITION (EN): 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Introduction to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS): 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
APPR 1470	Math for the Trades (QS)	5	A	
ART 1210	Math for Visual Arts (QS)	3	A	
BRC 1470	Barbering/Cosmetology Math (QS)	3	A	
CMGT 1100	Construction Math (QS)	3	F	
CHEF 1320	Fundmntls Cost Control (QS)	3	F	MATH 0900 w/C grade or better or appropriate Accuplacer score
CPA 1470	Math for the Trades (QS)	5	A	
CPI 1470	Math for the Trades (QS)	5	A	
ELI 1470	Math for the Trades (QS)	5	A	
FIN 1380	Financial Mathematics (QS)	3	A	MATH 0990 or appropriate Accuplacer score
FMTA 1470	Math for the Trades (QS)	5	A	
HVAC 1470	Math Basics for HVAC (QS)	5	A	
IND 1120	Math for Industry (QS)	3	F,Sp	MATH 0900
MATH 1010	Intermed Algebra (QS)	4	A	RDG 0900; within last year MATH 0990 w/C grade or better or appropriate Accuplacer score
PLI 1470	Math for the Trades (QS)	5	A	
SVT 1110	Surveying Math I (QS)	4	A	MATH 1060 or appropriate Accuplacer score

NOTE: In selecting a QS course to fulfill general education requirements for an AAS, students must consult their academic program in this catalog.

COMMUNICATION (CM): 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM, IN)	3		
COMM 1020	Prin of Public Speaking (CM, IN)	3		
CTEL 1020	Career Speech Skills (CM)	3		

NOTE: In selecting a CM course to fulfill general education requirements for an AAS, students must consult their academic program in this catalog.

HUMAN RELATIONS (HR): 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Art Foundation Seminar (HR) (Recommended for Art Students only)	2	A	
BUS 1010	Intro to Business (IN,HR)	3	A	
COMM 2110	Interpersonal Comm (HR, ID)	3		
CTEL 1010	Leadership & Team Building (HR)	3		
ENGL 1030	Writing In Professions (HR)	3		
FA 1025	Collaboration in Arts (HR)	3	F,Sp	
LE 1220	HR for Career Develop (SS, HR)	3		
MKTG 1010	Customer Service (HR)	2		

MKTG 1960	Professionalism in Business (HR)	3	A

NOTE: In selecting an HR course to fulfill general education requirements for an AAS, students must consult their academic program in this catalog.

INSTITUTIONAL REQUIREMENTS: 3-6 CREDITS

Students must take one to two courses (3-6 credits) from the list of General Education Distribution Areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: See individual program description for possible program-specific recommendations for course selection in these distribution areas.

SLCC GENERAL EDUCATION COURSE CATEGORIES

CORE SKILLS

Core Skills courses required for AA and AS degrees are Composition (EN), Quantitative Literacy (QL), and American Institutions (AI). These core courses are required at every institution in the Utah System of Higher Education.

The Northwest Commission on Colleges and Universities requires clearly identifiable instructional components in communication, computation, and human relations for any program a year or more in length. Core Skills courses required for AAS degrees are Composition (EN), Communication (CM), Quantitative Studies (QS), and Human Relations (HR). Certificate of Completion programs require courses in Communication (CM), Quantitative Studies (QS), and Human Relations (HR); these requirements can also be fulfilled through general education instruction embedded in program courses.

INSTITUTIONAL REQUIREMENTS

In addition to core skills courses, AA and AS degrees at SLCC require students to take courses in the following categories: Lifelong Wellness (LW), Student Choice (IN or Depth), and General Education Distribution Areas (BS, FA, HU, ID, PS, SS). Students must complete one Diversity (DV) course within their selection of Distribution courses.

- The Lifelong Wellness (LW) requirement can be fulfilled by completing a course with the LW designation or by submitting a DD 214 document from the military.
- The Student Choice category allows students to choose between taking a Depth course or an Intensive course (IN). A Depth course is a second course in any of the General Education Distribution Areas and may fulfill the Diversity requirement if marked with (DV). Intensive Courses (IN) are listed in the AS/AA general education outline above.
- AA and AS degrees at SLCC require students to take a total of six courses (18 credit hours) in the General Education Distribution Areas, with one course from each of the following areas: Biological Sciences (BS), Fine Arts (FA), Humanities (HU), Physical Science (PS), Social Sciences (SS), and Interdisciplinary (ID). Within the six courses (or the Depth course), students must take at least one Diversity course that critically examines the history, contributions of and challenges confronting diverse groups within our multicultural society. These diversity courses are marked with (DV) in the General Education Distribution Areas course listing that follows.
- AAS degrees at SLCC require students to take one to two courses (3 to 6 credits) from the list of General Education Distribution Areas.

GENERAL EDUCATION DISTRIBUTION AREAS

BIOLOGICAL SCIENCE (BS)

Biological Science courses introduce students to the concepts of structure, function and development at the molecular, cellular and organismal levels. Students will learn specific ways of knowing and relating to the biological elements of human experience. They will understand, value, and use science as a process of obtaining knowledge based on observable evidence. They will understand that human beings are living organisms dependent on the biological world for survival and quality of life.

COURSE		CR	SEM	PREREQUISITE
ANTH 1020	Human Origins (BS)	3	A	

BIOL 1010	Intro to Biology (BS)	4	A	RDG 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1015
BIOL 1015	Intro to Biology Lab	0	A	Coreq: BIOL 1010
BIOL 1030	Intro Plant Biology (BS)	4	F, Sp	RDG 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1035
BIOL 1035	Intro Plant Biology Lab	0	F, Sp	Coreq: BIOL 1030
BIOL 1050	Intro Animal Biology (BS)	4	F, Sp	RDG 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1055
BIOL 1055	Intro Animal Biology Lab	0	F, Sp	Coreq: BIOL 1050
BIOL 1070	Intro Marine Biology (BS)	4	F, Sp	RGD 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1075
BIOL 1075	Intro Marine Biology Lab	0	F, Sp	Coreq: BIOL 1070
BIOL 1090	Human Biology (BS)	3	A	RDG 0900 w/C grade or better or appropriate Accuplacer score
BIOL 1120	Intro Conservation Bio (BS)	3	F, Sp	RDG 0900 w/C grade or better or appropriate Accuplacer score
BIOL 1610	College Biology I (BS)	4	A	MATH 0990 w/C grade or better or appropriate Accuplacer score AND RDG 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	Coreq: BIOL 1610

NOTE: Students must register for lecture and lab at the same time. If the lab is full, students cannot register for the lecture. (Multiple lab options are available for each lecture course offering.)

FINE ARTS (FA)

Fine Arts courses show the connection between the arts and society, which will provide avenues for understanding and respecting different cultures and their artistic expressions. Students will use the artistic process and forms of artistic expression to depict and express human experience, emotions and thought by means of verbal, visual and aural images, metaphors and design.

COURSE		CR	SEM	PREREQUISITE
ART 1010	Exploring Art (FA)	3	A	
ART 1020	Intro to Drawing (FA)	3	A	
ART 1040	Jewelry Culture/Create (FA)	3	A	
ART 1050	Intro to Photo (FA)	3	A	
ART 1060	Hist/Art Lettering (FA)	3	A	
ART 1375	Photo Diversity (FA, DV)	3	F, Sp	ART 1050 or ART 1310
CMGT 1110	Birth of a Flute (FA)	3	F, Sp	
COMM 2570	Intro to Visual Comm (FA)	4	F, Sp	
DANC 1010	Dance & Culture (FA, DV)	3	A	
DANC 1090	Bridging the Arts (FA)	3	A	
DANC 1100	Intro Ballet I (FA)	3	A	
DANC 1200	Intro Mod Dnc I (FA)	3	A	
DANC 1500	Intro Jazz Dnc I (FA)	3	A	
DANC 1580	Intro Tap Dnc I (FA)	3	F, Sp	
FA 1080	Basic Metal Sculpt (FA)	3	A	
FA 1090	Bridging the Arts (FA)	3	A	
FLM 1023	Intro to Film (FA)	4	A	
FLM 1070	Film & Culture (FA, DV)	4	A	
MUSC 1010	Intro to Music (FA)	3	A	
MUSC 1020	History Rock & Roll (FA)	3	A	
MUSC 1030	Survey of Jazz (FA)	3	A	
MUSC 1040	US Musc Culture (FA,DV)	3	A	
MUSC 1090	Bridging the Arts (FA)	3	A	
THEA 1013	Intro to Theatre (FA)	3	A	
THEA 1023	Intro to Film (FA)	4	A	
THEA 1033	Acting I – Basic Acting (FA)	3	F, Sp	
THEA 1070	Film and Culture (FA, DV)	4	A	
THEA 1090	Bridging the Arts (FA)	3	A	

HUMANITIES (HU)

Humanities courses express the human spirit and celebrate our emotions and intelligence by making connections between the forces that shape reality in culture and society: language, history, beliefs, and philosophy. Students will recognize and appreciate the different cultural achievements and legacies of civilization. Students will learn to integrate moral, ethical and esthetic judgments in many contexts.

COURSE		CR	SEM	PREREQUISITE
ANTH 2011	People & Cultures SW(HU)	3	F	
ANTH 2120	Sacred Traditions(HU)	3	Sp	
ART 2330	Photo; Cultural Hist (HU)	3	F, Sp	
ARTH 2520	Latin Amer Art to 1750 (HU)	3	Sp	
ARTH 2710	Art History: Prehis/Ren (HU)	3	F, Sp	
ARTH 2720	Art History: Ren/Cont (HU)	3	F, Sp	
COMM 1050	Elem Human Comm (HU)	3	A	
ENGL 1050	Rdg Contmp.Cltr(HU,DV)	3	A	
ENGL 1100	Div/Pop US Lit(HU,DV)	3	F, Sp	
ENGL 2030	Language in Soc (HU,DV)	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2250	Intro/ Imaginative Wrtg(HU)	3	A	
ENGL 2260	Intro to Writing Poetry (HU)	3	Sp	
ENGL 2270	Intro to Writing Fiction (HU)	3	Sp	
ENGL 2280	Intro Creative Nonfictn(HU)	3	F	
ENGL 2600	Crit Intro Literature (HU)	3	A	
ENGL 2610	Diversity in Am Lit (HU,DV)	3	A	ENGL 1010 w/C grade or better
ENGL 2630	Contemp Global Lit (HU)	3	F	
ENGL 2640	Writing Social Justice (HU)	3	A	WRTG 0900; RDG 0900 or placement into RDG 0990
ENGL 2710	Intro to Folklore (HU)	3	A	
ENGL 2740	Intro Women's Stdy (HU)	3	F, Sp	
ENGL 2760	Gndr & Cultre Stdy (HU,DV)	3	Sp	
ENGL 2810	Native Am Lit &Exp(HU,DV)	3	Sp	ENGL 1010 w/C or better
ENGL 2830	Div Women Writers(HU,DV)	3	A	
ENGL 2850	Intro Queer Studies (HU,DV)	3	A	
HUMA 1010	Essentials Humanities (HU)	3	A	
HUMA 1100	Intro Humanities(HU)	3	A	
HUMA 2120	Sacred Text/Myth(HU)	3	F, Sp	
HUMA 2220	Pacific Am Studies (HU,DV)	3	F, Sp	
HUMA 2300	World Religions(HU)	3	A	
HUMA 2400	Religious Diverse (HU,DV)	3	A	
INTL 2040	Immigrant Exper (HU,DV)	3	F, Sp	
INTL 2060	Intl Lit & Culture (HU,DV)	3	F, Sp	
INTL 2230	Global French Cultures (HU)	3	F, Sp	
INTL 2240	Latin Amer Studies (HU)	3	F, Sp	
PHIL 1000	Intro Philosophy(HU)	3	F, Sp	
PHIL 2300	Intro Environ Ethics (HU)	3	F, Sp	
PHIL 2350	Prin & Phil of Religion (HU)	3	F, Sp	

INTERDISCIPLINARY (ID)

Interdisciplinary courses are designed to study topics from more than one disciplinary approach or framework. For practical reasons, colleges tend to divide study into categories, such as the ones listed above. In reality, all fields of study are connected. Interdisciplinary courses help make these connections apparent and enrich student understanding of the complexity of the world and our knowledge of it.

COURSE		CR	SEM	PREREQUISITE
ANTH 2530	Historical Archaeology (ID)	3	F, Sp	
BIOL 1400	Environmental Science (ID)	4	F, Sp	Coreq:BIOL 1405
BIOL 1405	Environmental Sci Lab	0	F, Sp	Coreq: BIOL 1400
BMAN 1110	Intro Biomanufacturing (ID)	3	F, Sp	
BMAN 1130	Bioengr in Society (ID)	3	F,Sp	
BUS 1040	Ethics at Work (ID)	3	A	

BUS 1050	Foundations of Bus (ID)	3	A	ENGL 1010 (may be taken concurrently)
CSIS 1070	Living in a Digital World (ID)	3	F, Sp	Recommended: CIS 1020
CSIS 1430	Internet & XHTML Fund (ID)	3	F, Sp	Recommended: CIS 1020
COMM 1500	Intro Mass Comm (ID)	3	A	
COMM 1560	Radio Perf & Prod (ID)	3	F, Sp	
COMM 2110	Interpers Comm (ID, HR)	3	F, Sp	
COMM 2150	Intercultural Comm (ID,DV)	3	A	
COMM 2500	Elem/Issue Digit Med(ID)	4	F, Sp	
EDU 1020	Essentials College Study (ID)	3	A	
ENGR 1600	Engineering the Guitar (ID)	3	F, Sp	
FHS 2400	Marriage Family Rel (ID)	3	A	
FHS 2450	Intro Human Sexuality (ID)	3	F, Sp	
FIN 1050	Personal Finance (ID)	3	A	
GEOG 1300	Regional Geography (ID)	3	F, Sp	
GEOG 1400	Human Geography (ID)	3	F, Sp	
GEOG 1800	Mapping Our World (ID)	3	A	
GEOG 2200	Urban/Environ Issues (ID)	3	Sp	
HLTH 1050	Life, Society & Drugs (ID)	3	A	
HLTH 1110	Social Health Div (ID, DV)	3	F,Sp	
HLTH 1500	Lifetime Well & Fit (ID)	3	A	
HS 2050	Culture, Ethics Med (ID,DV)	3	F, Sp	
INTL 2980	Travel Study (ID)	3	Sp	Varies by semester and trip taken
INTL 2990	Study Abroad (ID)	3	Sp	Varied by semester and trip taken
LE 1310	Mind Mach Con (ID)	3	A	
LE 1350	Values and Self Image (ID)	3	A	
LE 1360	Open Diverse Doors (ID,DV)	3	A	
MKTG 1050	Consumerism (ID)	3	A	
MUSC 1500	Music and Tech (ID)	3	A	
PHIL 1120	Ethics & Moral Prob(ID)	3	F, Sp	
SOC 1020	Social Problems (ID)	3	A	
SOC 2400	Intermtn West People (ID)	3	F, Sp	
TECH 1010	Technology & Future (ID)	3	F, Sp	

PHYSICAL SCIENCE (PS)

Physical Science courses help students learn to recognize the manifestations of physical phenomena of the everyday world. Students will learn how to assess the credibility of scientific information and will begin to use concepts of physical science to understand physical events and solve daily problems.

COURSE		CR	SEM	PREREQUISITE
CHEM 1010	Intro to Chemistry (PS)	3	A	
ENGR 1050	Intro Nanotechnology (PS)	3	F, Sp	
GEO 1010	Intro to Geology (PS)	3	A	
GEOG 1000	Physical Geography (PS)	3	A	
GEOG 1700	Natural Disasters (PS)	3	A	
GEOG 1780	Remote Sensing Earth (PS)	3	F, Sp	
MET 1010	Intro to Meteorology (PS)	3	A	
PHYS 1010	Elementary Physics (PS)	3	A	
PHYS 1040	Elementary Astronomy (PS)	3	A	

SOCIAL SCIENCE (SS)

Social Science courses view human behavior from different perspectives including societal, cultural, historical and geographical. Students will increase their understanding of the complexity of the human experience and their awareness of the variety of human behavior and institutions. Students will gain a greater appreciation for the diversity of human potential.

COURSE		CR	SEM	PREREQUISITE
ANTH 1010	Culture & Human Exper (SS)	3	A	
ANTH 1030	World Prehistory (SS)	3	A	
ANTH 2030	Intro to Archaeology (SS)	3	A	
CJ 1010	Criminal Justice (SS.DV)	3	A	

COMM 1080	Conflict Mgt/Div (SS,DV)	3	F, Sp	
ECON 1010	Econ as a Social Science (SS)	3	F, Sp	
ECON 1600	Intro Economic Systems (SS)	3	F, Sp	
ECON 2010	Microeconomics (SS)	3	A	
ECON 2020	Macroeconomics (SS)	3	A	
EDU 1400	Study of Disability (SS,DV)	3	A	
ETHS 2410	African Amer (SS,DV)	3	TBA	
ETHS 2420	Asian American (SS,DV)	3	TBA	
ETHS 2430	Mexican Amer (SS,DV)	3	TBA	
ETHS 2440	Native American (SS,DV)	3	TBA	
FHS 1500	Lifespan Human Dev (SS)	3	A	
HIST 1100	West Civilization(SS)	3	A	
HIST 1110	West Civ Since 1300(SS)	3	A	
HIST 1300	Col Latin Amer(SS)	3	F	
HIST 1310	Mod Latin Amer(SS)	3	Sp	
HIST 1450	Middle Eastern Civ(SS)	3	F	
HIST 1460	Modern Mid East Civ(SS)	3	Sp	
HIST 1500	World Hist to 1500(SS)	3	A	
HIST 1510	World Hist Snc 1500(SS)	3	A	
HIST 2200	Americanization (SS,DV)	3	A	
HIST 2600	Native Amer Voices(SS,DV)	3	Sp	
HIST 2700	US Hist to 1877(SS)	3	A	
HIST 2710	US Hist Since 1877(SS)	3	A	
HIST 2800	Utah Diverse Heritg (SS,DV)	3	F, Sp	
LE 1220	Human Relations for Career Dev (SS,HR)	3	A	
POLS 2070	Div & US Politics (SS,DV)	3	A	POLS 1100 w/C grade or better
POLS 2100	Intro Intl Politics (SS)	3	TBA	POLS 2100
POLS 2200	Intro Compare Politics(SS)	3	TBA	
POLS 2300	Political Ideology (SS)	3	F, Sp	
POLS 2500	Peace&Conflict:Dom (SS)	3	F	RDG 0990 and WRTG 0990; or appropriate Accuplacer score
POLS 2700	Model United Nations (SS)	3	F	
PSY 1010	General Psychology (SS)	3	A	
PSY 1100	Human Growth (SS)	3	A	
PSY 2600	Race, Class, Gender (SS,DV)	3	TBA	PSY 2500
SOC 1010	Intro Sociology (SS)	3	A	
SOC 2370	Gender in Amer (SS,DV)	3	F, Sp	SOC 1010 or PSY 1010
SOC 2630	Race & Ethnicity (SS,DV)	3	F, Sp	SOC 1010

ASSOCIATE OF PRE-ENGINEERING DEGREE (APE) GENERAL EDUCATION REQUIREMENTS

The Associate of Pre-Engineering degree is a specialized associate degree that requires reduced general education requirements. Students will be required to satisfy remaining general education requirements for a baccalaureate degree at the transfer (receiving) institution or SLCC. Unless specified by program, courses can meet multiple degree requirements. SLCC engineering students should meet with the SLCC Engineering Advisor as well as a transfer advisor from the receiving institution regarding general education requirements specific to Engineering majors.

CERTIFICATE OF COMPLETION OR DIPLOMA GENERAL EDUCATION REQUIREMENTS

Any program of 30 semester credit hours or more must contain communication, computation, and human relations components as outlined by the Northwest Commission on Colleges and Universities. This requirement may be met in a variety of ways as prescribed by each program. Unless specified by program, courses can meet multiple degree requirements. See individual program descriptions for specific course requirements.

SERVICE LEARNING COURSES

Service-Learning combines community service with academic instruction, focusing on critical, reflective thinking, and personal and civic responsibility. Service-Learning programs involve students in activities that address community-identified needs, while developing their academic skills and commitment to their community" *-American Association of Community Colleges.*

Service-learning is a method of teaching recognized as contributing to one of the primary general education learning outcomes at SLCC. SLCC has a process for designating service-learning courses. Designated service-learning courses are listed below.

ALL SECTIONS TAUGHT USING SERVICE-LEARNING

Indicates that every section of the course will incorporate service-learning regardless of the faculty member teaching the section.

COURSE		CR	SEM	PREREQUISITE
EDU 2010	Intro Special Ed	3	F, Sp	
ENGL 1810	WritingCenter Theory&Prac	3		
HLTH 1110	Social Health & Diversity	3		
INTR 1100	Connections to the Comm.	5		
LE 1220	Human Rel Career Dev (SS,HR)	3	A	
OTA 1140	Physical Dysfunc Lec	3		OTA 1020
OTA 1150	Physical Dysfunc Lab	1		OTA 1020
OTA 1170	Phys Dysfunc Field Wk I	2		OTA 1020
OTA 1210	OT Profess Issues I	2		OTA 1170
OTA 1220	OT Modalities II Lec	2		OTA 1120 and 1130
OTA 1230	OT Modalities II Lec/Lab	1		OTA 1120 and 1130. Coreq: OTA 1220
OTA 1240	Physical Dysfunction II	3		OTA 1100, 1110, 1140 and 1150. Coreq: OTA 1250
OTA 1250	Physical Dysfunc II Lab	1		OTA 1100, 1110, 1140 and 1150. Coreq: OTA 1240
OTA 1270	Pediatric FW Exper	2		OTA 1170
OTA 2310	OT Profess Issues II	2		OTA 1210
OTA 2320	OT Modalities III Lec	2		OTA 1220 and 1230
OTA 2330	OT Modalities III Lec/Lab	1		OTA 1220 and 1230. Coreq: OTA 2320, 2340 and 2350
OTA 2350	Geriatrics	3		OTA 1140 and 1240
OTA 2380	Psy/Soc Geriat FW I Exp	2		OTA 1170 and 1270
OTA 2450	Fieldwork Exper II Pt 1	6		OTA 1170, 1270 and 2380
OTA 2460	Fieldwork Exper II Pt 2	6		OTA 1170, 1270, 2380 and 2450

CERTAIN SECTIONS TAUGHT USING SERVICE-LEARNING

Indicates courses that have a faculty member who received the service-learning designation for the individual course sections they teach. The service-learning designation for these sections is found in the course schedule for each term.

COURSE		CR	SEM	PREREQUISITE
EDU 1020	Essentials of College Study (ID)	3	A	
EDU 1400	Study of Disability (SS,DV)	3	A	
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2710	Intro to Folklore (HU)	3		
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 2700	U.S. History to 1877 (SS)	3	A	
MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1220	Calculus II	4	A	Within last year, MATH 1210 w/C grade or better
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

SLCC Programs and Areas of Study

Definitions:

AA - Associate of Arts: Two-year transfer degree with general education and premajor coursework

AS - Associate of Science: Two-year transfer degree with general education and premajor coursework

APE - Associate of Pre-Engineering: Two-year transfer degree with general education and premajor coursework

AAS - Associate of Applied Science: Two-year degree leading to employment or continued study

DI - Diploma: A program between one and two years in length leading to employment or continued study

CC - Certificate of Completion: One-year program leading to employment or continued study

CP - Certificate of Proficiency: Short-term (approximately one semester) program focused on specific skills

CA - Certificate of Achievement: Short-term program ending in a certificate issued by the department only

** For additional information, see the "Degrees & General Education Requirements" section of the catalog*

***NOTE** : Click on program name for a full program description*

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Comple-tion	Certificate of Proficiency	Certificate of Archieve-ment
	AA	AS	APE					
Accounting								
Accounting				68 cr				
Accounting						30 cr		
Accounting Advanced							16 cr	
Accounting Essentials							16 cr	
Aerospace/Aviation Technology Maintenance				88 cr				
Aerospace/Aviation Technology								
Aerospace/Aviation Technology		67 cr						
- Aviation Administration		-----						
- Dispatch		-----						
- Fixed-Wing		-----						
- Rotor-Wing		-----						
Professional Pilot, Fixed Wing				64 cr				
Professional Pilot, Rotor Wing				64 cr				
Aviation Business Operations - Fixed Wing						36 cr		
Aviation Business Operations - Rotor Wing						36 cr		
Aviation Dispatch						33 cr		
Commercial Fixed Wing						38 cr		
Commercial Rotor Wing						38 cr		
American Sign Language								
American Sign Language	63 cr							
American Sign Language/English Interpreting				70 cr				
Anthropology								
Anthropology	63 cr							
Anthropology		61 cr						
Cultural Resource Management							24 cr	
Apprenticeship								
Appr. Brick Mason Technology				63 cr			x	
Appr. Carpentry Independent Technology				63 cr			x	
Appr. Carpentry JATC Technology				63 cr			x	
Appr. Cement Mason Independent Technology				-----			x	

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Completion	Certificate of Proficiency	Certificate of Achievement
	AA	AS	APE					
Appr. Cement Mason JATC Technology				63 cr			x	
Appr. Construction Craft Laborer Technology				-----			x	
Appr. Diesel Systems Technology				63 cr			x	
Appr. Electrical Independent Technology				63 cr			x	
Appr. Facilities Maintenance Technology				63 cr			x	
Appr. Heating, Cooling, & Refrigeration Technology				63 cr			x	
Appr. Heavy Civil Carpenter Technology				-----			x	
Appr. Ironworkers JATC Technology				63 cr			x	
Appr. Landscape Technology				63 cr			x	
Appr. Plumber Independent Technology				63 cr			x	
Appr. Plumber/Pipefitter JATC Technology				63 cr			x	
Appr. Refrigeration JATC Technology				63 cr			x	
Appr. Stagehand JATC Technology				63 cr			x	
Appr. Welding Technology				63 cr			x	
Architecture								
Architecture		60 cr						
Architectural Technology				67 cr				
Architectural Technology - CAD/BIM Emphasis				66 cr				
Art (see Visual Art & Design)								
Automotive and Related Technologies								
Automotive Collision Repair & Refinishing				64 cr				
Automotive Technician				68 cr				
Collision, Maintenance and Light Repair				65 cr				
Automotive Collision Repair						32 cr		
Automotive Maintenance & Light Repair						38 cr		
Automotive Refinishing						34 cr		
Motorcycle & Outdoor Power Equipment Technology						32 cr		
Motorcycle & Outdoor Power Equipment Technology							24 cr	
Basic Skills Development & Learning Centers (Non-Credit)								
Adult Basic Education -- Reading/Writing/Math (Non-Credit)								
Armed Services Vocational Aptitude Battery (ASVAB) Test Prep (Non-Credit)								
College Academic Readiness (Non-Credit)								
ESL Levels 1-3 (Non-Credit)								
GED Test Preparation (Non-Credit)								
Biology		64 cr						
Biomanufacturing								
Biomanufacturing				63 cr				
Biomanufacturing						30 cr		

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Completion	Certificate of Proficiency	Certificate of Achievement
	AA	AS	APE					
Biomanufacturing					47-49 cr			
Biotechnology								
Biotechnology		60 cr						
Biotechnology				62 cr				
Business								
Business	64 cr							
Business		63 cr						
Business Management				65 cr				
Business Administration				65 cr				
BMGT - Production Operations & Supply Chain Management Emphasis				64 cr				
BMGT - Small Business Ownership Emphasis				66 cr				
Business Management						33 cr		
Retail Management						30 cr		
Business Basics							18 cr	
Management Essentials							17-18 cr	
Small Business Management							16 cr	
Retail Management								9 cr
Business Office Technology (Non-Credit)								
Accounting Clerk (Non-Credit)							769 hrs	
Administrative Office Specialist (Non-Credit)							625 hrs	
Customer Service Receptionist (Non-Credit)							330 hrs	
Chef (see Culinary Arts)								
Chemistry								
Chemistry		66 cr						
Chemistry/Physical Science		64 cr						
Child Development (see Family & Human Studies)								
Communication								
Mass Communication		63 cr						
- Journalism Track & New Media		-----						
- Media & Communication Technology		-----						
- Public Relations		-----						
- Radio/Podcast Performance & Production		-----						
- TV Broadcast/Video Production		-----						
Speech Communication		63 cr						
Video/Radio Production				66 cr				
Computer & Network Technology (Non-Credit)								
Computer Support Specialist -- A+ Certification (Non-Credit)							615 hrs	
Network Administrator -- MCITP:SA (Non-Credit)							645 hrs	
Network Engineer (Non-Credit)							855 hrs	
Credit)							825 hrs	
Computer Sciences & Information Systems								

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Comple-tion	Certificate of Proficiency	Certificate of Archieve-ment
	AA	AS	APE					
Computer Sciences & Information Systems		61 cr						
Computer Sciences & Information Systems				63 cr				
Network Systems				66 cr				
Business & Personal Computing						32 cr		
Business & Personal Computing							18 cr	
Computer Science Fundamentals							16 cr	
Database Information Systems							16 cr	
Linux System Administration							16 cr	
Mobile Application Development							16 cr	
Network & Cyber Security							16 cr	
Network & System Administration							16 cr	
Network Routing & Switching							16 cr	
Software Development							17 cr	
Software Engineering							16 cr	
Web Programming & Development							16 cr	
Windows Systems Administration							16 cr	
Construction Management & Sustainable Building								
Construction Management		67 cr						
Construction Management & Sustainable Building				68 cr				
Cabinetmaking & Furniture Construction						33 cr		
Sustainable Building Construction						33 cr		
Continuing Education (CE)								
Accelerated Business (CE)	62 cr							
Alternative Route to Licensure (CE)								
Diagnostic Medical Sonography (CE)								52 cr
Electric Power Technology (CE)							735 hrs	
- Lineworker Apprentice (CE)							600 hrs	
- Meter Apprentice (CE)							600 hrs	
- Substation Apprentice (CE)							600 hrs	
Energy Management				67 cr				
Event & Meeting Planner (CE)								x
Genealogy (CE)								[18 cr]
Group Fitness Instructor Training (Credit Sections)								
Health & Wellness (Off Campus Classes)								
Library & Information Science (CE)								
Paralegal (Evening Program)								
Pharmacy Technician (CE)								x
Photovoltaic Systems (CE)								135 hrs
Retail Management (CE)								x
Sustainability (CE)								[24 cr]
Therapeutic Recreation Technician (Credit Sections)								
Travel Planner (CE)								
Yoga Instructor Tranining (Credit Sections)								
Criminal Justice								

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Completion	Certificate of Proficiency	Certificate of Achievement
	AA	AS	APE					
Criminal Justice		64 cr						
Criminal Justice				69 cr				
Homeland Security/Emergency Management				64 cr				
Culinary Arts				63 cr				
Dental Hygiene				89 cr				
Diesel Systems Technology								
Diesel Systems Technology				66 cr				
Diesel Systems Technology						33 cr		
Drafting - Architechture (see Architecture)								
Drafting - CAD (see Engineering Drafting)								
Early Childhood Education (see Family & Human Studies)								
Economics		63 cr						
Education								
Education		63 cr						
Paraeducation		63 cr						
Paraeducation							19 cr	
Learning Enhancement								
Electronics Engineering Technology								
Electronics Engineering Technology				64 cr				
Electronics Engineering Technology						31 cr		
Electronics Technology (Non-Credit)								
Automation & Instrumentation Technician (Non-Credit)						1362 hrs		
Electromechanical Assembly Technician (Non-Credit)							454 hrs	
Electronics Assembly Technician (Non-Credit)							228 hrs	
Electronics Communications Technician (Non-Credit)						1310 hrs		
Electronics Engineering Technician (Non-Credit)						1226 hrs		
Electronics Technician (Non-Credit)						1142 hrs		
Energy Management				67 cr				
Engineering								
Chemical Engineering			71 cr					
Civil/Environmental Engineering			73.5 cr					
Computer Engineering			74 cr					
Electrical Engineering			73 cr					
Manufacturing Engineering			65 cr					
Materials Science Engineering			71 cr					
Mechanical Engineering			73 cr					
Microscopy							20 cr	
Nanotechnology							26 cr	
Engineering Drafting & Manufacturing Technology								
Engineering Design / Drafting Technology		64 cr						
Manufacturing Engineering Technology		62-64 cr						

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Completion	Certificate of Proficiency	Certificate of Achievement
	AA	AS	APE					
Mechanical Engineering Technology		60 cr						
Engineering Design / Drafting Technology				64 cr				
Engineering Drafting & Manufacturing Technology						29 cr		
Machining CNC/CAM Technology						30 cr		
English								
English	63 cr							
English		61 cr						
English Writing						33 cr		
Developmental Reading								
Developmental Writing								
English as a Second Language -- Level 4								
Family & Human Studies								
Family & Human Studies		63 cr						
Family & Human Studies				66 cr				
Family & Human Studies						36 cr		
Child Development Associate Credential								10 cr
Fashion Design & Merchandising								
Fashion Design & Merchandising - Fashion Design Emphasis				68 cr				
Fashion Design & Merchandising - Fashion Merchandising Emphasis				65-67 cr				
Fashion Design & Merchandising - Technical Apparel Emphasis				66 cr				
Film Production Technician				66 cr				
Finance & Credit								
Finance & Credit				65 cr				
Finance & Credit						34 cr		
Financial Essentials							16-17 cr	
Financial Management							16 cr	
Financial Services							17 cr	
Investments and Trading							20 cr	
Fitness Technician				64 cr				
General Studies								
General Studies	61 cr							
General Studies		61 cr						
Geosciences								
Environmental Geology		63 cr						
Geography		63 cr						
Surveying and Geomatics				69 cr				
Geospatial Technology				65 cr				
Geographic Information Systems						39 cr		
Geospatial Technology							21 cr	
Surveying and Geomatics							20 cr	
Health Care Technology (Non-Credit)								

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Completion	Certificate of Proficiency	Certificate of Achievement
	AA	AS	APE					
Certified Nursing Assistant (Non-Credit)							122 hrs	
Clinical Laboratory Assistant (Non-Credit)							345 hrs	
Clinical Medical Assisting (Non-Credit)						950 hrs		
Health Information Specialist (Non-Credit)							678 hrs	
Health Unit Clerk/Coordinator (Non-Credit)							203 hrs	
Medical Coding & Billing (Non-Credit)							803 hrs	
Medical Office Administration (Non-Credit)						940 hrs		
Nutrition Assistant (Non-Credit)								20 hrs
Health and Lifetime Activities								
Fitness Technician				64 cr				
Health Information Technology								
Health Information Technology				65 cr				
Health Information Technology						39 cr		
Health Sciences		63 cr						
History	62 cr							
Humanities	61 cr							
Institute of Public Safety (IPS)								
Bail Enforcement Agent Training (IPS)								16 hrs
Emergency Medical Technician Training (IPS)								160 hrs
EMT Re-Certification Training (IPS)								25 hrs
Motorcycle Rider Education (IPS)								
Peace Officer Basic Training (IPS)								396 hrs
Special Function/Reserve Officer Training (IPS)								200 hrs
Interior Design								
Interior Design				69 cr				
Interior Design							29 cr	
Journalism (see Communication)								
Language & Culture								
Arabic, Chinese, French, German, International Culture, Italian, Japanese, Navajo, Portuguese, Russian, Samoan, Spanish, & Tongan								
Law Enforcement (see Criminal Justice)								
Manufacturing Technology (Non-Credit)								
Manual Machinist (Non-Credit)							450 hrs	
Welding (Non-Credit)						1155 hrs		
Marketing Management								
Marketing Management				67 cr				
Marketing Management						37 cr		
Marketing Advanced							16-18 cr	
Marketing Essentials							16 cr	
Mathematics								
Mathematics		63 cr						
Developmental Math								
Media & Web Design Technology (Non-Credit)								

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Completion	Certificate of Proficiency	Certificate of Achievement
	AA	AS	APE					
Graphic Designer (Non-Credit)							645 hrs	
Media Design Technology (Non-Credit)						1275 hrs		
Web Programmer (Non-Credit)							765 hrs	
Web Site Designer (Non-Credit)							675 hrs	
Medical Assistant						42 cr		
Mortuary Science				68 cr				
Music								
Music		61 cr						
Media Music				67 cr				
Music Recording Technology				65 cr				
MIDI							21 cr	
Music Recording Technology							24 cr	
Non-Destructive Testing Technology								
Non-Destructive Testing				65 cr				
NDT - Eddy Current						32 cr		
NDT - Radiography						35 cr		
NDT - Ultrasonics						32 cr		
Nursing				71 cr				
Occupational Therapy Assistant				86 cr				
Paralegal Studies				64 cr				
Performing Arts (see Dance, Film, Music, Theatre)								
Personal Trainer (see Fitness Technician)								
Physical Therapist Assistant				70 cr				
Physics		63 cr						
Political Science		61 cr						
Pre-Professional								
Pre-Chiropractic, Pre-Dentistry/Pre-Medicine, Pre-Law, Pre-Occupational Therapy, Pre-Pharmacy, Pre-Physical Therapy, Pre-Veterinary Science								
Professional Truck Driving CDL (Non-Credit)							240 hrs	
Professional Pilot (see Aerospace/Aviation Technology)								
Psychology		61 cr						
Radiologic Technology				75 cr				
Reserve Officer Training Corps (ROTC)								
Aerospace Studies (Air Force ROTC)								
Military Science (Army ROTC)								
Skilled Service Technology (Non-Credit)								
Air Conditioning/Heating/Refrigeration (Non-Credit)						960 hrs		
Heavy Duty Diesel Maintenance Technician (Non-Credit)							405 hrs	
Social Work								
Social Work	64 cr							
Social Work		63 cr						

SLCC Programs and Areas of Study

Program Name	Transfer Degrees			AAS	Diploma	Certificate of Comple-tion	Certificate of Proficiency	Certificate of Archieve-ment
	AA	AS	APE					
Sociology		61 cr						
Surgical Technology						39 cr		
Surveying (see Geosciences)								
Technical Transfer		63 cr						
Theatre Arts		63 cr						
Visual Art & Design								
Graphic Communications		63 cr						
Visual Art & Design - Animation		64 cr						
Visual Art & Design - Animation Emphasis				64-69 cr				
Visual Art & Design - Graphic Design Emphasis				69 cr				
Visual Art & Design - Illustration Emphasis				68 cr				
Visual Art & Design - Multimedia Emphasis				65 cr				
Visual Art & Design - Photography Emphasis				63-64 cr				
Visual Art & Design - Web Design Emphasis				68 cr				
Graphic Communication						34-36 cr		
Mobile Publishing						32 cr		
Creative Arts Entrepreneurship							19 cr	
Game Design & Development							25-28 cr	
Motion Graphics & Visual Effects							28 cr	
Web Graphic Design							27 cr	
Welding Fabrication & Inspection								
Welding Fabrication & Inspection				66 cr				
Welding Technology						35 cr		

ACCOUNTING – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 68 credits minimum

Accounting, Finance and Economics Division
Taylorsville Redwood Campus, BB 105
General Information, (801) 957-4073
Program Information, (801) 957-4235
www.slcc.edu/accounting
Academic Advisor, BB 132, (801) 957-4323

Program Faculty:
Professors – Lynnette Yerbury
Associate Professors – Dave Alldredge, Shauna Hatfield, Paige Paulsen
Assistant Professors – Robert Burdette, Tammie Neeley
Instructors – Wendy Gunn

Program Description: Accounting is the process that summarizes economic information about a business entity for use by decision makers. Users of this information include investors, creditors, management and government agencies. Often this information is prepared using computer applications. The Accounting program at SLCC provides training in many types of accounting; such as financial, managerial, cost, individual taxation and governmental. Students are taught both manual and basic computerized accounting systems. General Education courses provide training in effective oral and written communication and human relations skills.

The Accounting Department offers Certificates of Proficiency (CP) in the following areas:

- Accounting Essentials CP (16 credits)
- Advanced Accounting CP (16 credits)



Completion of the General Education requirements (18 CREDITS MINIMUM), the Business Basics CP (18 CREDITS MINIMUM) and the two (2) Certificates of Proficiency listed above (32 CREDITS MINIMUM) allows a student to be eligible to apply for an Associate of Applied Science Degree in Accounting.

Transfer/Articulation Information: This is a 2-year terminal degree. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Accounting should follow the courses listed in the Business Associate of Science or the Business Associate of Arts Degree listed elsewhere in this catalog.

Career Opportunities: This program provides excellent entry to mid-level skills for various positions in the field of accounting, depending on the individual person.

Total Program/Course Fees: Individual courses may have course/lab fees; see semester class schedule.

Estimated Cost for Students: Varies with course selection and credit hours.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: The Accounting program is accredited by the ACCREDITATION COUNCIL FOR BUSINESS SCHOOLS & PROGRAMS (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree-granting business programs.

Program Student Learning Outcomes		Related College-Wide Student Learning Outcomes
1.1	Comply with Generally Accepted Accounting Principles	1 – Substantive Knowledge
1.2	Perform the steps of the accounting cycle.	
1.3	Perform financial statement analysis.	
1.4	Utilize accounting information for decision making.	
2.1	Communicate effectively in writing.	2 – Communicate Effectively
2.2	Communicate effectively numerically.	
3.1	Choose and perform appropriate financial calculations.	3 – Develop Quantitative Literacy
3.2	Solve time value of money problems.	
4.1	Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1	Understand the ethical considerations inherently involved in Financial Reporting.	5 – Civic Engagement and/or Working Professionally
5.2	Understand the ethical considerations inherently involved in Federal Income Tax reporting.	
5.3	Developing the knowledge and skills to be civically engaged	
6.1	Communicate effectively with others while working in groups.	6 – Develop the knowledge and skills to work with others in a professional and constructive manner.
7.1	Proficiently use technology.	7 – Develop computer and information literacy.

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communication	3	A	ENGL 1010 w/C grade or better

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1960	Professionalism in Bus	3	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID) *	3
Social Science (SS) **	3
Biological Science (BS)	3-4

*Recommended: FIN 1050 Personal Finance

**Recommended: ECON 2010 Microeconomics

REQUIRED COURSES: (50 CREDITS MINIMUM)

BUSINESS ESSENTIALS (18 credits)

COURSE		CR	SEM	PREREQUISITE
ACCT 1110 (or 2010)	Financial Accounting	3	A	None
ACCT 2020	Managerial Accounting	3	A	ACCT 1110 or ACCT 2010; Recommended CSIS 2010
BUS 1010	Intro to Business	3	A	None

MGT 1600	Management Essentials	3	A	None
MKTG 1030	Intro to Marketing	3	A	None

Choose (3) credits of the following:

CSIS 2010	Bus Comp Prof – Spreadsheet/DB	3	A	Recommended CIS 1020
MGT 2050	Business Law	3	A	Recommended BUS 1050

ACCOUNTING ESSENTIALS CP (16 credits)
See catalog for details.

ADVANCED ACCOUNTING CP (16 credits)
See catalog for details.

The student should refer to the specific Certificates of Proficiency for the list of courses, requirements, and scheduling suggestions to complete their degree.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
Business Essentials CP (1st half)	9	Business Essentials CP (2nd half)	9
General Education	9	Accounting Essentials CP (1st half)	8
Total	**18**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
Accounting Essentials (2nd half)	8	Advanced Accounting (2nd half)	8
Advanced Accounting (1st half)	8	General Education	9
Total	**16**	**Total**	**17**

Advising Notes: This is a 2-year terminal degree. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

ACCOUNTING – CERTIFICATE OF COMPLETION[CTE] 30 credits minimum

Accounting, Finance and Economics Division
Taylorsville Redwood Campus, BB 105
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www.slcc.edu/accounting
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Program Faculty:
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Instructors – Wendy Gunn

Program Description: Accounting is the process that summarizes economic information about a business entity for use by decision makers. Users of this information include investors, creditors, management and government agencies. Often this information is prepared using computer applications. The Accounting program at SLCC provides training in financial and managerial accounting. Students are taught both manual and basic computerized accounting systems. General Education courses provide training in effective oral and written communication and human relations skills. Students may earn a Certificate in Accounting (30 credit hours required) or may continue on to complete the Associate of Applied Science degree (69 credit hours required), leading to employment in areas such as accounts receivable, accounts payable, general ledger, and payroll.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Accounting should follow the courses listed in the Business Associate of Science or the Business Associate of Arts Degree listed elsewhere in this catalog.

Program Student Learning Outcomes		Related College-Wide Student Learning Outcomes
1.1	Comply with generally accepted Accounting principles	1 – Substantive Knowledge
1.2	Perform the steps of the accounting cycle.	
1.3	Perform financial statement analysis.	
1.4	Utilize accounting information for decision making.	
2.1	Communicate effectively in writing.	2 – Communicate Effectively
2.2	Communicate effectively numerically.	
3.1	Choose and perform appropriate financial calculations.	3 – Develop Quantitative Literacy
3.2	Solve time value of money problems.	
4.1	Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1	Understand the ethical considerations inherently involved in Financial Reporting.	5 – Civic Engagement and/or Working Professionally
5.2	Understand the ethical considerations inherently involved in Federal Income Tax reporting.	
5.3	Developing the knowledge and skills to be civically engaged	
6.1	Communicate effectively with others while working in groups.	6 – Develop the knowledge and skills to work with others in a professional and constructive manner
7.1	Proficiently use technology.	7 – Develop computer and information literacy

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 1110	Financial Accounting	3	A	
ACCT 1120	Financial Acct II	3	A	ACCT 1110
ACCT 1290	Acct Info Systems	3	F, Sp	ACCT 1110 or ACCT 2010
ACCT 2020	Managerial Accounting	3	A	ACCT 1110 or ACCT 2010; recommended CSIS 2010
BUS 2200	Bus Communication	3	A	ENGL 1010 w/C grade or better
CSIS 2010	Bus Comp Prof – Spreadsheet/DB	3	F, Sp	Recommended CIS 1020
CSIS 2060	Decision Support Systems	3	A	CSIS 2010
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

FIN 1380	Financial Math	3	A	MATH 0990 or higher or appropriate Accuplacer score
MKTG 1960	Prof in Business	3	A	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 1110	3	ACCT 1120	3
ENGL 1010	3	ACCT 1290	3
FIN 1380	3	ACCT 2020	3
MKTG 1960	3	BUS 2200	3
CSIS 2010	3	CSIS 2060	3
Total	**15**	**Total**	**15**

Advising Notes: It is the student's responsibility to examine each course description to determine if prerequisites are required. Prerequisites must be satisfied before a class may be taken.

ADVANCED ACCOUNTING CERTIFICATE OF PROFICIENCY[CTE] (CP) 16 credits minimum

Accounting, Finance and Economics Division
Taylorsville Redwood Campus, BB 105
General Information, (801) 957-4073
Program Information, (801) 957-4235
www.slcc.edu/accounting
Academic Advisor, BB 132, (801) 957-4323

Program Faculty:
Professors – Lynnette Yerbury
Associate Professors – Dave Alldredge, Shauna Hatfield, Paige Paulsen
Assistant Professors – Robert Burdette, Tammie Neeley
Instructors – Wendy Gunn

Program Description: Accounting is the process that summarizes economic information about a business entity for use by decision makers. Users of this information include investors, creditors, management and government agencies. Often this information is prepared using computer applications. The Accounting program at SLCC provides training in many types of accounting; such as financial, managerial, cost, individual taxation and governmental. Students are taught both manual and basic computerized accounting systems. This Certificate of Proficiency interfaces with continued study toward an SLCC AAS degree in Accounting or General Business.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Accounting should follow the courses listed in the Business Associate of Science or the Business Associate of Arts Degree listed elsewhere in this catalog.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. The certificate is financial aid eligible if you plan to stack it with other certificates, which will lead to a Certificate of Completion or AAS degree. Please check with the Financial Aid Office to determine if your classes are eligible.

Career Opportunities: This program provides excellent entry to mid-level skills for various positions in the field of accounting, depending on the individual person.

Transfer/Articulation Information: This is a terminal certificate. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

Total Program/Course Fees: Individual courses may have course/lab fees; see semester class schedule.

Estimated Cost for Students: Varies with course selection and credit hours.

Estimated Time to Completion: If taken during the spring semester, the time to completion is one semester.

Specialized Accreditation: The Accounting program is accredited by the ACCREDITATION COUNCIL FOR BUSINESS SCHOOLS & PROGRAMS (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree-granting business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Comply with Generally Accepted Accounting Principles	1 – Substantive Knowledge
1.3 Perform financial statement analysis.	
2.1 Communicate effectively in writing.	2 – Communicate Effectively
3.1 Choose and perform appropriate financial calculations.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1 Understand the ethical considerations inherently involved in Financial Reporting.	5 – Civic Engagement and/or Working Professionally
5.2 Understand the ethical considerations inherently involved in Federal Income	

Tax reporting.	
5.3 Developing the knowledge and skills to be civically engaged	
6.1 Communicate effectively with others while working in groups.	6 – Develop the knowledge and skills to work with others in a professional and constructive manner.

REQUIRED COURSES: (10 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2410	Intermed Accounting II	4	F, Sp	ACCT 2310
ACCT 2540	Accounting in Practice	3	Sp	ACCT 2410 or concurrently
CSIS 2060	Decision Support Systems	3	A	CIS 2010

ACCOUNTING ELECTIVE COURSES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ACCT 2000	Accounting Co-Op	1-3	TBA	2 semesters of Accounting program
ACCT 2050	Governmental Acct	3	F, Sp	ACCT 1110 or 2010
ACCT 2530	Cost Accounting	3	Sp	ACCT 2020
ACCT 2950	Business Leaders Forum	1	F, Sp	
ACCT 2990	Current Topic Accounting	1-3	TBA	Variable on topic

SAMPLE SCHEDULE	
SPRING SEMESTER	
ACCT 2410	4
CSIS 2060	3
ACCT 2540	3
ACCT Electives	6
Total	**16**

Advising Notes: This is a 2-year terminal degree. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

ACCOUNTING ESSENTIALS CERTIFICATE OF PROFICIENCY[CTE] (CP) — 16 credits minimum

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Assistant Professors – Robert Burdette, Tammie Neeley
Instructors – Wendy Gunn

Program Description: Accounting is the process that summarizes economic information about a business entity for use by decision makers. Users of this information include investors, creditors, management and government agencies. Often this information is prepared using computer applications. The Accounting program at SLCC provides training in many types of accounting; such as financial, managerial, cost, individual taxation and governmental. Students are taught both manual and basic computerized accounting systems. This Certificate of Proficiency interfaces with continued study toward an SLCC AAS degree in Accounting or General Business.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Accounting should follow the courses listed in the Business Associate of Science or the Business Associate of Arts Degree listed elsewhere in this catalog.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. The certificate is financial aid eligible if you plan to stack it with other certificates, which will lead to a Certificate of Completion or AAS degree. Please check with the Financial Aid Office to determine if your classes are eligible.

Career Opportunities: This program provides excellent entry level skills for various positions in the field of accounting, depending on the individual person.

Transfer/Articulation Information: This is a terminal certificate. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

Total Program/Course Fees: Individual courses may have course/lab fees; see semester class schedule.

Estimated Cost for Students: Varies with course selection and credit hours.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is two semesters.

Specialized Accreditation: The Accounting program is accredited by the ACCREDITATION COUNCIL FOR BUSINESS SCHOOLS & PROGRAMS (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree-granting business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Comply with Generally Accepted Accounting Principles	1 – Substantive Knowledge
1.3 Perform financial statement analysis.	
2.1 Communicate effectively in writing.	2 – Communicate Effectively
3.2 Solve time value of money problems.	3 – Develop Quantitative Literacy
5.2 Understand the ethical considerations inherently involved in Federal Income Tax reporting.	5 – Civic Engagement and/or Working Professionally
7.1 Proficiently use technology.	7 – Develop computer and information literacy.

REQUIRED COURSES: (16 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 1120	Financial Acct II	3	A	ACCT 1110
ACCT 1290	Acct Info Systems	3	F, Sp	ACCT 1110 or ACCT 2010
ACCT 2310	Intermed Accounting I	4	F, Sp	ACCT 1120 or ACCT 2010 AND Instructor Approval
ACCT 2520	Federal Income Tax	3	Sp	ACCT 1120 or ACCT 2010
CSIS 2010	Bus Comp Prof – Spreadsheet/DB	3	F, Sp	Recommended CIS 1020

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 1120	3	ACCT 2310	4
ACCT 1290	3	ACCT 2520	3
CSIS 2010	3		
Total	**9**	**Total**	**7**

Advising Notes: This is a terminal certificate. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

AEROSPACE/AVIATION TECHNOLOGY MAINTENANCE – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 88 credits minimum

Aerospace/Aviation & Related Technologies Division
International Airport Center
General Information, (801) 957-4073
Program Information, (801) 957-2055
www.slcc.edu/aviationtechnology
www.slcc.edu/aviationmaintenance
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Program Coordinator/Site Administrator – Todd M. Baird
Senior Professor – Brian Williamson
Associate Professor – Steve Mendiola
Assistant Professor – Todd M. Baird
Instructors – Jaime Horning, Dee Thornton
Adjuncts – Josh Thomas, Bud Shehan, Warren Longhurst, Tom Wixom, Jeremy Leavitt

Program Description: Aviation and Related Technologies -Aviation Maintenance Program is designed to prepare students for a career in maintenance and repair of various aircraft and powerplants. This program is designed to give students knowledge and skills for the level required to pass the Federal Aviation Administration written, oral and practical examinations for an airframe and powerplant (A&P) mechanics license. Aircraft technicians are required to perform detailed inspections on airframes and powerplants, preventive maintenance, troubleshoot, repair, install or replace parts relative to airframes and engines. Students will learn both fixed and rotor-wing aircraft as well as reciprocating and turbine engines.

Depending upon the type of work they do, aircraft mechanics and repairman work in hangars, on the flight line, repair stations and fixed base of operations and out stations. They use hand and power tools as well as sophisticated test equipment. A and P's perform detailed inspections on airframes and powerplants to ensure flight safety. Noise levels are high, and flight line mechanics often work outdoors in inclement weather. Sometimes the work requires physical demands that can be arduous. Aircraft maintenance technicians often work under pressure to maintain flight schedules or minimize inconvenience to customers, but a technician must not sacrifice high standards of workmanship in the process.

Career Opportunities: Aircraft technicians troubleshoot, inspect, repair, and replace and install parts on many different types of aircraft, including jets, propeller-driven airplanes, and helicopters. Some A & P Technicians specialize in engines or airframes, but most technicians will be required to work on all aspects of aircraft repair.

Career opportunities include, but not limited to, A&P Technician, Repair station technician, Lead Technician, Inspector, Aircraft Manufacturing and Aerospace Engineer. The long-term employment outlook is very good. There is a current shortage of aviation maintenance technicians, largely due to the considerable attrition of retiring personnel, and to growth in the industry. There are many industries such as amusement parks, power and gas companies that are known to hire Aircraft technicians due to the broad range of training it requires to be an Airframe and Powerplant technician. Employment projections emphasize that well-trained, licensed individuals with a strong background in technical subjects will have little trouble finding work in the aviation industry.

Transfer/Articulation Information: Students who earn an AAS degree in Aerospace/Aviation Technology-Maintenance have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: Students may start this program during the Fall or Spring semesters. There are day and evening classes available. For information on getting started, please visit www.slcc.edu/students-future/admissions.

Estimated Cost for Students:

Tuition per semester: www.slcc.edu/students-future/tuition-fees
Tools $1,500
Tool Box $1,000
Books $350

FAA Test $750

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Specialized Accreditation: The Aviation Maintenance Technician program at Salt Lake Community College is one of 150 FAA approved schools in the US, providing students with the extensive knowledge they need in order to succeed in aviation maintenance.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Students will acquire the knowledge and skills necessary to pass the Federal Aviation Administration written/oral and practical exams for the General AMT (A&P) requirement. Curriculum requirements are found at www.faa.gov. Required subject areas required by FAA Part 147 are on file in the Division Office with an assessment plan to address knowledge areas by regulations. 1.2 Students will acquire the knowledge and skills necessary to pass the Federal Aviation Administration written/oral and practical exams for an Airframe AMT (A&P) requirement. Curriculum requirements are found at www.faa.gov. Required subject areas required by FAA Part 147 are on file in the Division Office with an assessment plan to address knowledge areas by regulations. 1.3 Students will acquire the knowledge and skills necessary to pass the Federal Aviation Administration written/oral and practical exams for a Powerplant AMT (A&P) requirement. Curriculum requirements required by FAA Part 147 are found at www.faa.gov. Required subject areas are on file in the Division Office with an assessment plan to address knowledge areas by regulations.	1 – Substantive Knowledge
2. 1 Students will be required to demonstrate effective logbook entries of coursework performed on aircraft during lab assignments. 2.2 Students in the AMT program will complete an oral report of their Return to Service activities in both Airframe and Powerplant courses. 2.3 Students in the AMT program will complete a written report of their Return to Service activities in both Airframe and Powerplant courses.	2 – Communicate Effectively
3. Students will be able to apply reasoning and interpret information represented on data, graphs, and/or tables as it relates to safe maintenance practices as identified with in the aviation industry. Operations will include problems and reasoning skills in the areas of: A. weight and balance, B. sheet metal layout and fabrication, C. assembly and rigging, D. Electrical systems repair E. Maintenance items on both GA and commercial aircraft piston and turbine aircraft.	3 – Develop Quantitative Literacies
4. The program will require students to perform Quality Assurance (QA) functions as required for the industry. The requirement for QA will encompass subjects addressed by FAA Part 147 regarding critical safety of flight maintenance tasks. These subjects will include sheet metal, composites, piston engine overhaul, and assembly and rigging of flight controls.	4 – Think Critically
5. The program will require students to participate in a return to service program that can be done in partnership with industry or on aircraft purchased for the AMT program. Students work will be IAW industry standards for return to service.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Eff Comm	3	A	

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relation	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (72 CREDITS)

COURSE		CR	SEM	PREREQUISITE
AMTT 1120	Aircraft Regulat	8	F, Sp	Recommended Coreq. AMTT 1140
AMTT 1140	Aircraft Elec Hrd	8	F, Sp	Recommended Coreq. AMTT 1120
AMTT 1220	Airframe Sys I	8	A	AMTT 1120 and 1140
AMTT 1240	Airframe Sys II	8	A	AMTT 1120 and 1140
AMTT 1260	Airframe Sys III	8	A	AMTT 1120 and 1140
AMTT 2320	Airframe Inspect	8	A	AMTT 1120, 1140, 1220, 1240 and 1260
AMTT 2340	Powerplant Sys	8	A	AMTT 1120 and 1140
AMTT 2420	Recip Engines	8	A	AMTT 1120 and 1140
AMTT 2440	Powerplant Insp	8	A	AMTT 1120, 1140, 2320, 2340 and 2420

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
AMTT 1160	Aviation Tech Math	3	F, Sp	
AMTT 2990	Special Studies	1-5	A	Instructor approval

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
AMTT 1120	8	AMTT 1220	8
AMTT 1140	8	AMTT 1240	8
MATH 1010	4	DISTRIBUTION	3
Total	**20**	**Total**	**19**

SUMMER SEMESTER	
AMTT 1260	8
LE 1220	3
Total	**11**

FALL SEMESTER		SPRING SEMESTER	
AMTT 2320	8	AMTT 2420	8
AMTT 2340	8	AMTT 2440	8
ENGL 1010	3	COMM 1010	3
Total	**19**	**Total**	**19**

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience:
Any FAA Certification or Military training leading to certification must be reviewed by department and the FAA. Official copies of FAA Certification and/or Military training must be submitted for consideration.

AEROSPACE AVIATION TECHNOLOGY
– ASSOCIATE OF SCIENCE (AS) **67 credits minimum**

Aviation and Related Technologies Division
Westpoint Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2140
www.slcc.edu/aviationtechnology
www.slcc.edu/professionalpilot
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructors – Erwin Zundel; Daniel Sutliff

Program Description: Salt Lake Community College has offered the Professional Pilot program for 20 years and prepares students for a successful and exciting career in the aerospace and aviation industry. The program includes classroom academics, simulator training, and in-flight instruction. All academic and flight training is certified under the Federal Aviation Administration PAR's Part 141 standards. Graduates of SLCC's Aerospace/Aviation Pilot program are well prepared for successful and exciting careers in the aerospace industry. SLCC also caters to future pilots who may not be seeking a degree.

There are a few degrees available within Aerospace/Aviation-Pilot Technology. These degrees include an Associate of Science in Aerospace/Aviation Technology with four different tracks (Fixed-Wing, Rotor-Wing, Aviation Administration, or Dispatch Track), Associate of Applied Science degrees (Fixed-Wing and Rotor-Wing) and Certificates of Completion (Fixed-Wing and Rotor-Wing).

Career Opportunities: Career opportunities within the aerospace and aviation industry for pilots, administrators, and dispatchers include, but are not limited to: U.S. Military, U.S. Customs and Border Protection, Division of Wildlife, Commercial flight operations (flight instructing, scenic tours, cargo, charter, firefighting, parajumpers, trafficwatch), Major Commercial flight operations (regional and major airlines), and private corporate flight departments.

Transfer/Articulation Information: The two-year AS degree is designed for students who plan to transfer to programs at four-year universities or colleges. SLCC has developed articulation agreements with other state colleges and universities which make it easy for SLCC students to transfer their credits. SLCC students who complete the program are prepared to transfer to Utah Valley University, Utah State University, Westminster College, or Embry-Riddle Aeronautical University to complete a bachelor's degree. Contact an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information. See also www.slcc.edu/professionalpilot.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution.

Program Entry Requirements: Minimum age is 17 for pilot applicants and 21 for dispatch applicants. English literacy in reading and speaking is required. Physical condition must be certified by an FAA Medical Examiner for pilot applicants. A minimum of a Class II or physical exam is required at the approximate cost of $100. To find a Designated Pilot Examiner (DPE) for a Class II Medical Exam please visit the FAA website at www.faa.gov/pilots/amelocator. The physical exam must be completed prior to the first flight lesson. Financial Aid is available for eligible students and must be applied for at least 3 months prior to anticipated need.

Students may start this program during the Fall, Spring or Summer semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a special fee for pilot flight labs. This fee is based on the national average flight training required for the particular certificate. Flight lab fees may vary due to individual abilities and aircraft equipment selected. Contact program faculty for more information on flight lab fees. Federal Aviation Administration knowledge exams and practical test flights for pilot certifications are included in the flight lab fees.

Estimated Cost for Students: The cost of tuition per semester may be found at www.slcc.edu/students-future/tuition-fees. The average cost per semester for books and supplies is $250. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Specialized Accreditation: FAA-approved Part 141 flight program

Program Objectives: The FAA-approved Part 141 flight program prepares students to earn the following certificates: Private Pilot Certificate, Instrument Rating, Commercial Certificate, Certified Flight Instructor, and Certified Flight Instructor Instrument in Rotor Wing or Fixed Wing aircraft, and Multi-Engine Instructor in Fixed Wing (The FAA approved Part 65 Dispatch Program prepares students to earn a Dispatch Certification). The student must demonstrate through knowledge tests, practical tests, and show through appropriate records that he/she meets the knowledge, skill, and experience requirement necessary for the associated pilot or dispatch certificate. The various stages are complete when the student has completed written exams with a minimum passing score of 70% . All program courses require a grade of a C or higher to be considered a passing grade. Students enrolled in the Dispatch track must have a cumulative GPA of a 3.0 to be recommended to take the FAA practical exam. The FAA practical exam, when required for issuance of an FAA pilot certificate, will be required for completion and issuance of a grade for the applicable flight lab.

An incomplete is a conditional grade given only in *extraordinary cases* where a student has completed a major portion of the class, but is unable to complete course work due to circumstances beyond their control such as major illness/injury, death in the family, and military activation. Other conditions for Incompletes may be issued for flight training labs related to weather delays, aircraft maintenance, and unavailable instructors. All missed flights must be documented and approved by the faculty member overseeing the flight labs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Students will acquire substantial knowledge of Private Pilot, Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing aeronautical knowledge areas contained in FAA Part 141 curriculum. Students will demonstrate proficiency skills in Private Pilot, Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing flight operations areas contained in FAA Part 141 curriculum.	1 – Substantive Knowledge 2 – Communicate Effectively
2. Students will demonstrate effective written communication skills	2 – Communicate Effectively
3. Students will demonstrate quantitative literacy skills.	3 – Develop Quantitative Literacy
4. Students will show how to think critically.	4 – Think Critically

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:
Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1010	Air Transportation	3	F, Sp	
PILT 1040	Aviation Orient	1	A	
PILT 1100	Priv Pilot Airplane Gnd Scl	4	A	Coreq: PILT 1110, 1140, or instructor approval
. **OR**				
PILT 1105	Priv Pilot Helicopter Gnd Scl	4	A	Coreq: PILT 1115, 1145, or instructor approval
PILT 1420	Aircraft Systems	3	A	
PILT 2050	Aviation Meteorology	3	A	
PILT 2250	Aerodymanics	3	F, Sp	
PILT 2310	Human Factors & Safety	3	F, Sp	

TRACKS

In addition to required courses, students must also complete a minimum of 10 credits of Track Requirements and a minimum of 3 credits of Track or Pilot Electives.

DISPATCH CERTIFICATION TRACK REQUIREMENTS

COURSE		CR	SEM	PREREQUISITE
DISP 1500	Dispatch Applications	7	A	PILT 1100, 1400, 2050; may be taken concurrently with PILT 1400 and PILT 2050
PILT 1400	Intro Air Traffic Control	3	F, Sp	

DISPATCH CERTIFICATION TRACK ELECTIVES

COURSE		CR	SEM	PREREQUISITE
PILT 1250	Inst Ground School	3	A	PILT 1150 or 1155. Coreq: PILT 1260 or 1265; or Instructor approval
PILT 1260	Inst Sim Fxd-Wing Lab	1	A	PILT 1150 Coreq: PILT 1250

FIXED-WING (AIRPLANE) TRACK REQUIREMENTS

COURSE		CR	SEM	PREREQUISITE
PILT 1250	Inst Ground School	3	A	PILT 1150 or 1155. Coreq: PILT 1260 or 1265; or Instructor approval
PILT 1140	Solo Plt F/W Cert Lab	1	A	PILT 1100 or concurrently
PILT 1150	Prv Pilot F/W Cert Lab	2	A	PILT 1140
PILT 1260	Inst Simulator F/W Lab	1	A	PILT 1150; Coreq: PILT 1250
PILT 1300	Instr Cert F/W Lab	3	A	PILT 1250 or concurrently

FIXED-WING (AIRPLANE) TRACK ELECTIVES

COURSE		CR	SEM	PREREQUISITE
PILT 2100	Commercial Airplane Ground	3	A	PILT 1150
PILT 2200	Cross Country F/W Lab	2	A	Coreq: PILT 1300, PILT 2100
PILT 2240	Com Pilt F/W Cert Lab	2	A	PILT 2200
PILT 2300	CFI/Airplane Lab	2	A	PILT 2240 or PILT 2260. Coreq: PILT 2340

PILT 2350	CFI/Inst Fixed-Wing Lab	1	A	PILT 1300; PILT 2240 . Coreq: PILT 2340
PILT 2400	CFI/Multi-Eng F/W Lab	1	A	PILT 2240. Coreq: PILT 2340
PILT 2440	Mnt Flying F/W Lab	1	Su, F	PILT 1150 and 2050
PILT 2260	Comm FW CAT Add-on Lab	2	A	PILT 2245
PILT 2265	Comm RW CAT Add-on Lab	2	A	PILT 2240
PILT 2460	Turbo Transtn FW Lab	1	A	PILT 1150 and 2220
PILT 2500	Single Eng Add On FW Lab	1	A	PILT 2240 or instructors approval
PILT 1200	Multi Eng Add On FW Lab	1	A	PILT 1150 and instructors approval
PILT 2340	CFI Ground School	3	A	PILT 2100 or 2105

ROTOR-WING (HELICOPTER) TRACK REQUIREMENTS

COURSE		CR	SEM	PREREQUISITE
PILT 1250	Inst Ground School	3	A	PILT 1150 or 1155 Coreq: PILT 1260 or 1265 or Instructor approval
PILT 1145	Solo Pilt R/W Cert Lab	1	A	PILT 1105 or concurrently
PILT 1155	Priv Pilt R/W Cert Lab	2	A	PILT 1145
PILT 1265	Inst Sim R/Wg Lab	1	A	PILT 1155 Coreq: PILT 1250
PILT 1315	Inst R/W Cert Lab	3	A	PILT 1250 or concurrently

ROTOR-WING (HELICOPTER) TRACK ELECTIVES

COURSE		CR	SEM	PREREQUISITE
PILT 2205	Cross Country R/W Lab	2	A	PILT 1315 Coreq: PILT 2105
PILT 2245	Com Pilt R/W Cert Lab	2	A	PILT 2205
PILT 2340	CFI Grnd School	3	A	PILT 2100 or 2105
PILT 2305	CFI/Rotor-Wing	2	A	PILT 2245 or PILT 2265. Coreq: PILT 2340
PILT 2355	CFI/Inst Rotor-Wing Lab	1	A	PILT 1315; PILT 2245. Coreq: PILT 2340
PILT 2405	Turbine Transtn R/W Lab	1	A	Instructor Approval
PILT 2445	Mtn Ops Rotor-Wing Lab	1	A	PILT 2050 and 2245
PILT 2455	Utility Oper Rotor-Wing Lab	1	A	PILT 2245
PILT 2265	Comm RW CAT Add-on Lab	2	A	PILT 2240
PILT 2260	Comm FW CAT Add-on Lab	2	A	PILT 2245
PILT 2465	Ngt Visn Gogls Ops RW Lab	2	A	PILT 2245; PILT 2310
PILT 2475	Medium Transtn RW Lab	2	A	PILT 2405, 2455
PILT 2485	Twin Eng Transtn RW Lab	2	Sp, F	PILT 2475
PILT 2105	Commercial Helicopter Ground	3	A	PILT 1155

AVIATION ADMINISTRATION TRACK REQUIREMENTS

COURSE		CR	SEM	PREREQUISITE
AVAD 1010	Airport Sys & Fac	3	F, Sp	
AVAD 1020	Airport Oper & Admin	3	F, Sp	
MGMT 1600	Management Essentials	3	A	
PILT 1110	Pvt Sim Fixed-Wing Lab	1	A	PILT 1100 required for non-flying students
OR				
PILT 1115	Pvt Sim Rotor-Wing Lab	1	A	PILT 1100 required for non-flying students

AVIATION ADMINISTRATION TRACK ELECTIVES

COURSE		CR	SEM	PREREQUISITE
PILT 1400	Intro to Air Traffic Cntrl	3	F, Sp	
PILT 2470	Corp Bus Aviation	2	F, Sp	

PILT ELECTIVES

COURSE		CR	SEM	PREREQUISITE
PILT 1050	Aviation History	2	F, Sp	
PILT 1110	Pvt Sim Fixed-Wing Lab	1	A	PILT 1100 required for non-flying students
PILT 1115	Pvt Sim Rotor-Wing Lab	1	A	PILT 1100 required for non-flying students
PILT 1800	Ground Tutoring Lab	1	A	Coreq. PILT 1100, 1250, 2100 or 2210; and instructor approval
PILT 1840	Simulator Tutoring Lab	1	A	Coreq: PILT 1140, 1145, 1150, 1155, 1300, 1315, 2200, 2205, 2220, 2240, 2245, 2300, 2305, 2350 or 2355
PILT 1990	Special Studies	1-3	A	Instructor permission
PILT 2000	Aviation CO-OP	1-2	A	Second year student and instructor approval

PILT 2010	PreGrad Seminar	1	F, Sp	Second year student
PILT 2470	Corp Business	2	F, Sp	
PILT 1400	Intro to Air Traffic Cntrl	3	F, Sp	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
PILT 1040	1	PILT 1010	3
PILT 1100 or 1105	4	PILT 2310	3
TRACK REQ	1	TRACK REQ	2
PILT 1420	3	PILT 2050	3
STUDENT CHOICE	3	DISTRIBUTION	3
		HLAC	1
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
TRACK REQ	3	TRACK REQ	3
TRACK REQ	1	PILT 2250	3
MATH 1030/1050	3-4	TRACK ELEC	3-6
AI	3	DISTRIBUTION (3)	9
DISTRIBUTION (2)	6		
Total	**16-17**	**Total**	**18-21**

Advising Notes:
Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience:
Any FAA Certification or Military training leading to certification must be reviewed by department. Official copies of FAA Certification and/or Military training must be submitted for consideration. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

AEROSPACE/AVIATION TECHNOLOGY – PROFESSIONAL PILOT, FIXED WING
- ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) **64 credits minimum**

Aviation Related Technologies Division
Westpointe Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2140
www.slcc.edu/professionalpilot
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructor – Erwin Zundel, Daniel Sutliff

Program Description: Salt Lake Community College has offered the Pilot program for 20 years and prepares students for a successful and exciting career in the aerospace industry. The program includes classroom academics, simulator training, and in-flight instruction. All academic and flight training is certified under the Federal Aviation Administration PAR's Part 141 standards. Graduates of SLCC's Aerospace/Aviation Pilot program are well prepared for successful and exciting careers in the aerospace industry. SLCC also caters to future pilots who may not be seeking a degree.

There are a few flight degrees available within Aerospace/Aviation Technology Department. These degrees include an Associate of Science in Aerospace/Aviation Technology with four different tracks (Fixed-Wing, Rotor-Wing, Aviation Administration, or Dispatch Track), Associate of Applied Science degrees (Fixed-Wing and Rotor-Wing) and Certificates of Completion (Fixed-Wing and Rotor-Wing).

Career Opportunities:
Career opportunities within the aerospace and aviation industry for pilots and dispatchers include, but are not limited to: U.S. Military, U.S. Customs and Border Protection, Division of Wildlife, Commercial flight operations (flight instructing, scenic tours, cargo, charter, firefighting, parajumpers, trafficwatch), Major Commercial flight operations (regional and major airlines), and private corporate flight departments.

Transfer/Articulation Information: Students who earn an AAS degree in Aerospace/Aviation Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: Minimum age is 17 for pilot applicants. English literacy in reading and speaking is required. Physical condition must be certified by an FAA Medical Examiner for pilot applicants. A minimum of a Class II physical exam is required at the approximate cost of $100. To find a Designated Pilot Examiner (DPE) for a Class II Medical Exam please visit the FAA website at www.faa.gov/pilots/amelocator. The physical exam must be completed prior to the first flight lesson. Financial Aid is available for eligible students and must be applied for at least 3 months prior to anticipated need.

Students may start this program during the Fall, Spring or Summer semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a special fee for pilot flight labs. This fee is based on the national average flight training required for the particular certificate. Flight lab fees may vary due to individual abilities and aircraft equipment selected. Contact program faculty for more information on flight lab fees. Federal Aviation Administration knowledge exams and practical test flights for pilot certifications are included in the flight lab fees.

Estimated Cost for Students: The cost of tuition per semester may be found at www.slcc.edu/students-future/tuition-fees. The average cost per semester for books and supplies is $250. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: FAA-approved Part 141 flight program

Program Objectives: The FAA-approved Part 141 flight program prepares students to earn the following certificates: Private Pilot Certificate, Instrument Rating, Commercial Certificate, Certified Flight Instructor, and Certified Flight Instructor Instrument, and Multi-Engine Instructor in Fixed Wing. (The FAA approved Part 65 Dispatch Program prepares students to earn a Dispatch Certification.) The student must demonstrate through knowledge tests, practical tests, and show through appropriate records that he/she meets the knowledge, skill, and experience requirement necessary for the associated pilot or dispatch certificate.. The various stages are complete when the student has completed written exams with a minimum passing score of 70%. All program courses require a grade of a C or higher to be considered a passing grade. Students enrolled in the Dispatch option must have a cumulative GPA of a 3.0 to be recommended to take the FAA practical exam. The FAA practical exam, when required for issuance of an FAA pilot certificate, will be required for completion and issuance of a grade for the applicable flight lab.

An incomplete is a conditional grade given only in *extraordinary cases* where a student has completed a major portion of the class, but is unable to complete course work due to circumstances beyond their control such as major illness/injury, death in the family, and military activation. Other conditions for Incompletes may be issued for flight training labs related to weather delays, aircraft maintenance, and unavailable instructors. All missed flights must be documented and approved by the faculty member overseeing the flight labs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students will acquire substantial knowledge of Private Pilot, Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing aeronautical knowledge areas contained in FAA Part 141 curriculum. Students will demonstrate proficiency skills in Private Pilot, Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing flight operations areas contained in FAA Part 141 curriculum	1
2. Students will demonstrate effective written communication skills	2
3. Students will demonstrate quantitative literacy skills	3
4. Students will show how to think critically	4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR

Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (37 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1010	Air Transportation	3	F,Sp	
PILT 1040	Aviation Orientation	1	A	
PILT 1100	Priv PILT Airplane Grnd School	4	A	Coreq: PILT 1110, 1140, or instructor approval
PILT 1140	Solo PILT FW Cert Lab	1	A	PILT 1100 or concurrently
PILT 1150	Priv PILT FW Cert Lab	2	A	PILT 1140
PILT 1250	Instr Ground School	3	A	PILT 1150 or 1155 Coreq: PILT 1260 or 1265; or Instructor approval
PILT 1260	Instr Sim FW Lab	1	A	PILT 1150. Coreq: PILT 1250
PILT 1300	Instr Cert FW Lab	3	A	PILT 1150 or concurrently
PILT 1420	Aircraft Systems	3	A	
PILT 2050	Aviation Meteorology	3	A	
PLT 2100	Commer Airplane Ground School	3	A	PILT 1150
PILT 2200	Cross Country FW Lab	2	A	Coreq: PILT 1300 PILT 2100
PILT 2240	Comm PILT FW Cert Lab	2	A	PILT 2200
PILT 2250	Aerodynamics	3	F, Sp	
PILT 2310	Human Factors & Safety	3	F, Sp	

ELECTIVE COURSES: (SELECT 12-13 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
AVAD 1010	Airport Sys & Fac	3	F, Sp	
AVAD 1020	Airport Ops & Admin	3	F, Sp	
DISP 1500	Dispatch Applications	7	A	PILT 1100, 1400, 2050; may be taken concurrently with DISP 1400 and 2050
PILT 1110	Priv Sim FW Lab	1	F, Sp	Coreq: PILT 1100 required for non-flying students or AS degree Dispatch Track
PILT 1050	Aviation History	2	F, Sp	
PILT 1400	Intro to Air Traffic Cont	3	F,Sp	
PILT 1800	Ground Touring Lab	1	A	Coreq: PILT 1100, 1250, 2100 or 2210 and instructor approval
PILT 1840	Sim Touring Lab	1	A	Coreq: PILT 1140, 1145, 1150, 1155, 1300, 1315, 2200, 2205, 2220, 2240, 2245, 2300, 2305, 2350, 2355 or instructor approval
PILT 1990	Special Studies	1-5	A	Instructor permission
PILT 2000	Aviation Co-op	1-2	A	Second year student and instructor permission
PILT 2010	PreGrad Seminar	1	F, Sp	Second year student
PILT 2300	CFI/Airplane Lab	2	A	PILT 2240 or PILT 2260. Coreq: PILT 2340
PILT 2340	CFI Ground School	3	A	PILT 2100 or PILT 2105
PILT 2350	CFI/Instrument FW Lab	1	A	PILT 1300; PILT 2240 . Coreq: PILT 2340
PILT 2400	CFI/Multi-Eng FW Lab	1	A	PILT 2240. Coreq: PILT 2340
PILT 2440	Mount Flying FW Lab	1	Su, F	PILT 1150 and 2050
PILT 2460	Turbo Transtn FW Lab	1	A	PILT 1150 and 2220
PILT 2470	Corp/Bus Aviation	2	F, Sp	
PILT 2260	Comm FW CAT Add-on Lab	2	A	PILT 2240
PILT 2265	Comm RW CAT Add-on Lab	2	A	PILT 2240
PILT 2500	Single Eng Add On FW Lab	1	A	PILT 2240 or instructors approval
PILT 1200	Multi Eng Add On FW Lab	1	A	PILT 1150 and instructors approval

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
PILT 1040	1	PILT 1150	2
PILT 1100	4	PILT 1010	3
PILT 1140	1	PILT 2050	3
PILT 1420	3	PILT 2310	3
ENGL 1010	3	MATH 1010	4
CM Course	3	PILT Elective	3
Total	**15**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
PILT 1250	3	PILT 2100	3
PILT 1260	1	PILT 2200	2
PILT 1300	3	PILT 2240	2
PILT 2250	3	Distribution	3
HR Course	2-3	PILT Elective	6
PILT Elective	3		
Total	**15-16**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.
It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience: Any FAA Certification or Military training leading to certification must be reviewed by department. Official copies must be submitted for review. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

AEROSPACE/AVIATION TECHNOLOGY – PROFESSIONAL PILOT, ROTOR WING
ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) **64 credits minimum**

Aviation & Related Technologies Division
Westpointe Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2140
www.slcc.edu/professionalpilot
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructor – Erwin Zundel; Daniel Sutliff

Program Description: Salt Lake Community College has offered the Pilot program for 20 years and prepares students for a successful and exciting career in the aerospace industry. The program includes classroom academics, simulator training, and in-flight instruction. All academic and flight training is certified under the Federal Aviation Administration PAR's Part 141 standards. Graduates of SLCC's Aerospace/Aviation Pilot program are well prepared for successful and exciting careers in the aerospace industry. SLCC also caters to future pilots who may not be seeking a degree.

There are a few degrees available within Aerospace/Aviation Technology Department. These degrees include an Associate of Science in Aerospace/AviationTechnology with four different tracks (Fixed-Wing, Rotor-Wing, Aviation Administration, or Dispatch Track), Associate of Applied Science degrees (Fixed-Wing and Rotor-Wing) and Certificates of Completion (Fixed-Wing and Rotor-Wing).

Career Opportunities: Career opportunities within the aerospace and aviation industry for pilots and dispatchers include, but are not limited to: U.S. Military, U.S. Customs and Border Protection, Division of Wildlife, Commercial flight operations (flight instructing, scenic tours, cargo, charter, firefighting, parajumpers, trafficwatch), Major Commercial flight operations (regional and major airlines), and private corporate flight departments.

Transfer/Articulation Information: Students who earn an AAS degree in Aerospace/Aviation Technology-Pilot also have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: Minimum age is 17 for pilot applicants. English literacy in reading and speaking is required. Physical condition must be certified by an FAA Medical Examiner for pilot applicants. A minimum of a Class II physical exam is required at the approximate cost of $100. To find a Designated Pilot Examiner (DPE) for a Class II Medical Exam please visit the FAA website at http://www.faa.gov/pilots/amelocator. The physical exam must be completed prior to the first flight lesson. Financial Aid is available for eligible students and must be applied for at least 3 months prior to anticipated need.

Students should possess a strong desire to succeed in each and every endeavor, be willing to devote themselves 100% to a challenging academic and in-flight curriculum and be willing to pursue an active career in a dynamic and fast-paced industry.

Strong, consistent performance in basic high school studies and good overall physical health will adequately prepare students for success in the SLCC program and overall aviation industry.

Students may start this program during the Fall, Spring or Summer semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a special fee for pilot flight labs. This fee is based on the national average flight training required for the particular certificate. Flight lab fees may vary due to individual abilities and aircraft equipment selected. Contact program faculty for more information on flight lab fees. Federal Aviation Administration knowledge exams and practical test flights for pilot certifications are included in the flight lab fees.

Estimated Cost for Students: The cost of tuition per semester may be found at www.slcc.edu/students-future/tuition-fees. The average cost per semester for books and supplies is $250. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.
Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: FAA-approved Part 141 flight program

Program Objectives: The FAA-approved Part 141 flight program prepares students to earn the following certificates: Private Pilot Certificate, Instrument Rating, Commercial Certificate, Certified Flight Instructor, and Certified Flight Instructor Instrument in Rotor Wing. (The FAA approved Part 65 Dispatch Program prepares students to earn a Dispatch Certification.) The student must demonstrate through knowledge tests, practical tests, and show through appropriate records that he/she meets the knowledge, skill, and experience requirement necessary for the associated pilot or dispatch certificate. The various stages are complete when the student has completed written exams with a minimum passing score of 70%. All program courses require a grade of a C or higher to be considered a passing grade. Students enrolled in the Dispatch option must have a cumulative GPA of a 3.0 to be recommended to take the FAA practical exam. The FAA practical exam, when required for issuance of an FAA pilot certificate, will be required for completion and issuance of a grade for the applicable flight lab.

An incomplete is a conditional grade given only in *extraordinary cases* where a student has completed a major portion of the class, but is unable to complete course work due to circumstances beyond their control such as major illness/injury, death in the family, and military activation. Other conditions for Incompletes may be issued for flight training labs related to weather delays, aircraft maintenance, and unavailable instructors. All missed flights must be documented and approved by the faculty member overseeing the flight labs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students will acquire substantial knowledge of Private Pilot, Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing aeronautical knowledge areas contained in FAA Part 141 curriculum. Students will demonstrate proficiency skills in Private Pilot, Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing flight operations areas contained in FAA Part 141 curriculum	1
2. Students will demonstrate effective written communication skills	2
3. Students will demonstrate quantitative literacy skills	3
4. Students will show how to think critically	4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (37 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1010	Air Transportation	3	F,Sp	
PILT 1040	Aviation Orientation	1	A	
PILT 1145	Solo PILT RW Cert Lab	1	A	PILT 1105 or concurrently
PILT 1155	Priv PILT RW Cert Lab	2	A	PILT 1145
PILT 1250	Instr Ground School	3	A	PILT 1150 or 1155; Coreq: PILT 1260 or 1254; instructor approval
PILT 1265	Instr Sim RW Lab	1	A	PILT 1155. Coreq: PILT 1250
PILT 1315	Instr Cert RW Lab	3	A	PILT 1250 or concurrently
PILT 1420	Aircraft Systems	3	A	
PILT 2050	Aviation Meteorology	3	A	
PILT 2205	Cross Country RW Lab	2	A	PILT 1315. Coreq: PILT 2105
PILT 2245	Comm PILT RW Cert Lab	2	A	PILT 2205
PILT 2250	Aerodynamics	3	F, Sp	
PILT 2310	Human Factors & Safety	3	F, Sp	
PILT 1105	Private Pilot Helicopter Ground	4	A	PILT 1115, 1145, or instructor approval
PILT 2105	Commercial Helicopter Ground	3	A	PILT 1155

ELECTIVE COURSES: (SELECT 12-13 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
DISP 1500	Dispatch Applications	7	A	PILT 1100, 1400, 2050; may be taken concurrently with DISP 1400 and 2050
PILT 1115	Priv Sim RW Lab	1	F, Sp	Coreq: PILT 1100 required for non-flying students
PILT 1050	Aviation History	2	F, SP	
PILT 1400	Intro to Air Traffic Cont	3	F,Sp	
PILT 1800	Ground Touring Lab	1	A	Coreq: PILT 1100, 1250, 2100 or 2210 and instructor approval
PILT 1840	Sim Touring Lab	1	A	Coreq: PILT 1140, 1145, 1150, 1155, 1300, 1315, 2200, 2205, 2220, 2240, 2245, 2300, 2305, 2350, 2355 or instructor approval
PILT 1990	Special Studies	1-5	A	Instructor permission
PILT 2000	Aviation Co-op	1-2	A	Second year student and instructor permission
PILT 2010	PreGrad Seminar	1	F, Sp	Second year student
PILT 2305	CFI/Rotor-Wing Lab	2	A	PILT 2245 or PILT 2265. Coreq: PILT 2340
PILT 2340	CFI Ground School	3	A	PILT 2100 or PILT 2105
PILT 2355	CFI/Instrument RW Lab	1	A	PILT 1315; PILT 2245. Coreq: PILT 2340
PILT 2405	Turbine Transtn RW Lab	1	A	Instructor Approval
PILT 2445	Mount Flying RW Lab	1	A	PILT 2050 and 2245
PILT 2455	Utility Oper RW Lab	1	A	PILT 2245
PILT 2470	Corp/Bus Aviation	2	F, Sp	
PILT 2265	Comm RW CAT Add-on Lab	2	A	PILT 2240
PILT 2260	Comm FW CAT Add-on Lab	2	A	PILT 2245
PILT 2465	Ngt Visn Gogls Ops RW Lab	2	A	PILT 2245, 2310
PILT 2475	Medium Transtn RW Lab	2	A	PILT 2405, 2455
PILT 2485	Twin Eng Transtn RW Lab	2	F, Sp	PILT 2475
AVAD 1010	Airport Sys & Fac	3	F, Sp	
AVAD 1020	Airport Ops & Admin	3	F, Sp	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
PILT 1040	1	PILT 1155	2
PILT 1105	4	PILT 1010	3
PILT 1145	1	PILT 2050	3
PILT 1420	3	PILT 2310	3
ENGL 1010	3	MATH 1010	4
CM Course	3	PILT Elective	3
Total	**15**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
PILT 1250	3	PILT 2105	3
PILT 1265	1	PILT 2200	2
PILT 1315	3	PILT 2245	2
PILT 2250	3	Distribution	3
HR Course	2-3	PILT Elective	6
PILT Elective	3		
Total	**15-16**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.
It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience: Any FAA Certification or Military training leading to certification must be reviewed by department. Official copies must be submitted for review. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

AVIATION BUSINESS OPERATIONS FIXED-WING FLIGHT TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE]

36 credits minimum

Aviation Related Technologies Division
Westpointe Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2140
www.slcc.edu/professionalpilot
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructors – Erwin Zundel, Daniel Sutliff

Program Description: The two-semester Certificate of Completion will provide students with the basic knowledge and skills needed to operate aircraft for pleasure (non-commercial) in the western United States. The program combines flight training with technical and professional courses essential for success to include flight training leading to FAA rating; Private Pilot Certificate; FAA Instrument Certificate; aircraft systems operations; effects of weather on flight; and flying in mountainous regions. Certificate requirements may be applied toward entry-level requirements for the Professional Pilot program or toward commercial rating.
Career Opportunities: Career opportunities within the aerospace and aviation industry for pilots include, but are not limited to: U.S. Military, U.S. Customs and Border Protection, Division of Wildlife, Commercial flight operations (flight instructing, scenic tours, cargo, charter, firefighting, parajumpers, trafficwatch), Major Commercial flight operations (regional and major airlines), and private corporate flight departments.

Transfer/Articulation Information: Students who may choose to pursue an AS degree in the future should take courses that meet general education requirements for an AS degree in Aerospace/Aviation.

Program Entry Requirements: Minimum age is 17 for pilot applicants. English literacy in reading and speaking is required. Physical condition must be certified by an FAA Medical Examiner for pilot applicants. A minimum of a Class II or physical exam is required at the approximate cost of $100. To find a Designated Pilot Examiner (DPE) for a Class II Medical Exam please visit the FAA website at www.faa.gov/pilots/amelocator. The physical exam must be completed prior to the first flight lesson. Financial Aid is available for eligible students and must be applied for at least 3 months prior to anticipated need.

Students should possess a strong desire to succeed in each and every endeavor, be willing to devote themselves 100% to a challenging academic and in-flight curriculum and be willing to pursue an active career in a dynamic and fast-paced industry.

Strong, consistent performance in basic high school studies and good overall physical health will adequately prepare students for success in the SLCC program and overall aviation industry.

Students may start this program Fall, Spring or Summer semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a special fee for pilot flight labs. This fee is based on the national average flight training required for the particular certificate. Flight lab fees may vary due to individual abilities and aircraft equipment selected. Contact program faculty for more information on flight lab fees. Federal Aviation Administration knowledge exams and practical test flights for pilot certifications are included in the flight lab fees.

Estimated Cost for Students: The cost of tuition per semester may be found at www.slcc.edu/students-future/tuition-fees. The average cost per semester for books and supplies is $250. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.

Estimated Time to Completion: If students follow suggested sample schedule, completion time is two semesters.

Specialized Accreditation: FAA-approved Part 141 flight program

Program Objectives: The FAA-approved Part 141 flight program prepares students to earn the following certificates: Private Pilot Certificate, Instrument Rating, Commercial Certificate, Certified Flight Instructor, Certified Flight Instructor Instrument,

and Multi-Engine Instructor. The student must demonstrate through knowledge tests, practical tests, and show through appropriate records that he/she meets the knowledge, skill, and experience requirement necessary for the associated pilot certificate. The various stages are complete when the student has completed written exams with a minimum passing score of 70%. All program courses require a grade of a C or higher to be considered a passing grade. The FAA practical exam, when required for issuance of an FAA pilot certificate, will be required for completion and issuance of a grade for the applicable flight lab.

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	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students will acquire substantial knowledge of Private Pilot and Instrument aeronautical knowledge areas contained in FAA Part 141 curriculum. Students will demonstrate proficiency skills in Private Pilot and Instrument flight operations areas contained in FAA Part 141 curriculum	1
2. Students will demonstrate effective written communication skills	2
3. Students will demonstrate quantitative literacy skills	3
4. Students will show how to think critically	4

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved QS course			

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

REQUIRED COURSES: (27 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1040	Aviation Orientation	1	A	
PILT 1100	Private Pilot Airplane Ground School	4	A	Coreq: PILT 1110, 1140, or instructor approval
PILT 1140	Solo Pilot Cert Lab	1	A	PILT 1100 or concurrently
PILT 1150	Priv Pilt Fxd-Wing Crt Lab	2	A	PILT 1140
PILT 1250	Instrument Grnd School	3	A	PILT 1150 or 1155. Coreq: PILT 1260 or 1265; instructor approval
PILT 1260	Inst Sim Fixed-Wing Lab	1	A	PILT 1150 Coreq: PILT 1250
PILT 1300	Inst Cert Fixed-Wing Lab	3	A	PILT 1250 or concurrently
PILT 1400	Intro Air Traffic Control	3	F, Sp	
PILT 1420	Aircraft Systems	3	A	

PILT 2050	Aviation Meteorology	3	A	
PILT 2440	Mntn Flying Fxd-Wing Lab	1	Su, F	PILT 1150 and 2050
PILT 2470	Corporate/Business AV	1	F, SP	
	Aviation or Track Elective	1	A	

ELECTIVE RECOMMENDATIONS

COURSE		CR	SEM	PREREQUISITE
PILT 1200	Multi Eng Add On FW Lab	1	A	PILT 1150 and instructors approval

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CM	3	QS	3-4
PILT 1040	1	HR	2-3
PILT 1100	4	PILT 1150	2
PILT 1140	1	PILT 1250	3
PILT 1400	3	PILT 1260	1
PILT 1420	3	PILT 1300	3
PILT 2050	3	PILT 2440	1
ELEC	1	PILT 2470	2
Total	**19**	**Total**	**17-19**

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience: Any FAA Certification or Military training leading to certification must be reviewed by the department. Official copies of FAA Certification and/or Military training must be submitted for consideration. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

AVIATION BUSINESS OPERATIONS ROTOR-WING FLIGHT TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE]

36 credits minimum

Aviation Related Technologies Division
Westpointe Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2140
www.slcc.edu/professionalpilot
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructors – Erwin Zundel, Daniel Sutliff

Program Description: The two-semester Certificate of Completion will provide students with the basic knowledge and skills needed to operate aircraft for pleasure (non-commercial) in the western United States. The program combines flight training with technical and professional courses essential for success to include flight training leading to FAA rating; Private Pilot Certificate; FAA Instrument Certificate; aircraft systems operations; effects of weather on flight; and flying in mountainous regions. Certificate requirements may be applied toward entry-level requirements for the Professional Pilot program or toward commercial rating.
Career Opportunities: Career opportunities within the aerospace and aviation industry for pilots include, but are not limited to: U.S. Military, U.S. Customs and Border Protection, Division of Wildlife, Commercial flight operations (flight instructing, scenic tours, cargo, charter, firefighting, parajumpers, trafficwatch), Major Commercial flight operations (regional and major airlines), and private corporate flight departments.

Transfer/Articulation Information: Students who may choose to pursue an AS degree in the future should take courses that meet general education requirements for an AS degree in Aerospace/Aviation.

Program Entry Requirements: Minimum age is 17 for pilot applicants. English literacy in reading and speaking is required. Physical condition must be certified by an FAA Medical Examiner for pilot applicants. A minimum of a Class II or physical exam is required at the approximate cost of $100. To find a Designated Pilot Examiner (DPE) for a Class II Medical Exam please visit the FAA website at www.faa.gov/pilots/amelocator. The physical exam must be completed prior to the first flight lesson. Financial Aid is available for eligible students and must be applied for at least 3 months prior to anticipated need.

Students should possess a strong desire to succeed in each and every endeavor, be willing to devote themselves 100% to a challenging academic and in-flight curriculum and be willing to pursue an active career in a dynamic and fast-paced industry.

Strong, consistent performance in basic high school studies and good overall physical health will adequately prepare students for success in the SLCC program and overall aviation industry.

Students may start this program Fall, Spring or Summer semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a special fee for pilot flight labs. This fee is based on the national average flight training required for the particular certificate. Flight lab fees may vary due to individual abilities and aircraft equipment selected. Contact program faculty for more information on flight lab fees. Federal Aviation Administration knowledge exams and practical test flights for pilot certifications are included in the flight lab fees.

Estimated Cost for Students: The cost of tuition per semester may be found at www.slcc.edu/students-future/tuition-fees. The average cost per semester for books and supplies is $250. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.

Estimated Time to Completion: 2 semesters minimum

Specialized Accreditation: FAA-approved Part 141 flight program

Program Objectives: The FAA-approved Part 141 flight program prepares students to earn the following certificates: Private Pilot Certificate, Instrument Rating, Commercial Certificate, Certified Flight Instructor, and Certified Flight Instructor

Instrument. The student must demonstrate through knowledge tests, practical tests, and show through appropriate records that he/she meets the knowledge, skill, and experience requirement necessary for the associated pilot certificate. The various stages are complete when the student has completed written exams with a minimum passing score of 70%. All program courses require a grade of a C or higher to be considered a passing grade. The FAA practical exam, when required for issuance of an FAA pilot certificate, will be required for completion and issuance of a grade for the applicable flight lab.

An incomplete is a conditional grade given only in *extraordinary cases* where a student has completed a major portion of the class, but is unable to complete course work due to circumstances beyond their control such as major illness/injury, death in the family, and military activation. Other conditions for Incompletes may be issued for flight training labs related to weather delays, aircraft maintenance, and unavailable instructors. All missed flights must be documented and approved by the faculty member overseeing the flight labs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students will acquire substantial knowledge of Private Pilot and Instrument aeronautical knowledge areas contained in FAA Part 141 curriculum. Students will demonstrate proficiency skills in Private Pilot and Instrument flight operations areas contained in FAA Part 141 curriculum	1
2. Students will demonstrate effective written communication skills	2
3. Students will demonstrate quantitative literacy skills	3
4. Students will show how to think critically	4

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved QS course			

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

REQUIRED COURSES: (27 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1040	Aviation Orientation	1	A	
PILT 1145	Solo Pilt Rotr-Wng Cert Lab	1	A	PILT 1105 or concurrently
PILT 1155	Priv Pilot Rtr-Wing Cert Lab	2	A	PILT 1145
PILT 1250	Instrument Grnd School	3	A	PILT 1150 or 1155. Coreq: PILT 1260 or 1265; or instructor approval
PILT 1265	Inst Sim Rtr-Wing Lab	1	A	PILT 1155 Coreq: PILT 1250
PILT 1315	Inst Rtr-Wing Cert Lab	3	A	PILT 1250 or concurrently
PILT 1400	Intro Air Traffic Control	3	F, Sp	
PILT 1420	Aircraft Systems	3	A	
PILT 2050	Aviation Meteorology	3	A	
PILT 2445	Mntn Flying Rtr-Wing Lab	1	A	PILT 2050 and 2245
PILT 2470	Corporate/Business AV	1	F, Sp	

PILT 1105	Priv Pilot helicopter Ground School	4	A	Coreq: PILT 1115, 1145, or instructor approval
	Aviation or Track Elective	1	A	

ELECTIVE RECOMMENDATIONS

COURSE		CR	SEM	PREREQUISITE
PILT 2405	Turbine Engine R/W	1	A	Instructor Approval

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
CM	3	QS	3-4
PILT 1040	1	HR	2-3
PILT 1105	4	PILT 1155	2
PILT 1145	1	PILT 1250	3
PILT 1400	3	PILT 1265	1
PILT 1420	3	PILT 1315	3
PILT 2050	3	PILT 2445	1
ELEC	1	PILT 2470	2
Total	**19**	**Total**	**17-19**

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience: Any FAA Certification or Military training leading to certification must be reviewed by the department. Official copies of FAA Certification and/or Military training must be submitted for consideration. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

AVIATION DISPATCH – CERTIFICATE OF COMPLETION[CTE] 33 credits minimum

Aerospace/Aviation and Related Technologies Division
Westpointe Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2055
http://www.slcc.edu/professionalpilot/
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructors – Erwin Zundel, Daniel Sutliff

NOTE: This program is pending approval by the Utah State Board of Regents. Students may apply for graduation in this program beginning Fall Semester 2012.

Program Description: The two-semester certificate of completion will provide students with the basic knowledge and skills needed to operate as an aircraft dispatcher for scheduled commercial operations in the United States. The program combines certification courses with technical and professional courses essential for success leading to FAA endorsement; FAA aircraft dispatch certification; aviation industry and scheduled aircraft operations; and human factors in the flight environment. Certificate requirements may be used as credit toward entry-level requirements for Aerospace Aviation Technology AS Degree.
Career Opportunities: After completing the program, students may find employment as a certified dispatcher in scheduled and non-scheduled corporate and commercial flight operations.

Program Entry Requirements: The minimum age for dispatch applicants is 21.

Estimated Cost for Students: The cost of tuition per semester may be found at http://www.slcc.edu/cashiering/tuitionfees.asp. The average cost per semester for books and supplies is $800. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.

Estimated Time to Completion: 3 semesters minimum.

Specialized Accreditation: FAA approved Part 65 Dispatch Program. Must be 23 to take Dispatch Practical Exam

NOTE: This program is **not** eligible for financial aid.

Program Objectives: The FAA Approved Part 65 Dispatch Program prepared student to earn a Dispatch Certification. The student must demonstrate through knowledge tests, practical tests, and show through appropriate records that he/she meets the knowledge, skill, and experience requirement necessary. All program courses require a grade of C or higher to be considered a passing grade. Students enrolled must have a cumulative GPA of 3.0 or instructor approval to be recommended to take the FAA Practical exam.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
General Education 1. Basic communication 2. Writing 3. Human Relations 4. General Education Distribution 5. Quantitative literacy	1, 2, 3, 4, 5
1.1 At the completion of the FAA Part 141 certification course students will be given an exam covering FAA Part 141 Private Pilot knowledge areas.	1

1.2 At the completion of the FAA Part 141 certification course students will be given an exam covering FAA Part 141 Instrument Pilot knowledge areas.	1
2.1 Students will be complete a written term paper covering an aviation associated concept.	2
2.2 Students will be perform an oral presentation covering an aviation associated concept.	2
3.1 Students will perform basic aircraft weight and balance application problems.	3
4.1 Students will complete an aviation accident evaluation and apply human factor concepts to the evaluation.	4

GENERAL EDUCATION REQUIREMENTS

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved QS course			

NOTE: Students who may want to pursue an AS degree in the future should take an approved Quantitative Literacy (QL) course, such as MATH 1030, MATH 1040, or MATH 1050.

REQUIRED COURSES: (25 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1100	Private Pilot Airplane Ground School	4	A	Coreq: PILT 1110, 1140 or instructor approval
PILT 1110	Priv Pilt FW Sim Lab	1	A	
PILT 1250	Instrument Ground School	3	A	PILT 1150 or 1155
PILT 1400	Intro to ATC	3	F, Sp	
PILT 1420	Aircraft Systems	3	A	
PILT 2050	Aviation Meteorology	3	A	
PILT ____	Aviation Elective	1	A	See Catalog Course Descriptions
DISP 1500	Dispatch Applications	7	A	PILT 1100, 1400, 2050; may be taken concurrently with PILT 1400 and 2050

ELECTIVE RECOMMENDATIONS:

COURSE		CR	SEM	PREREQUISITE
PILT 2150	ATP Prep	1	F, Sp	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
PILT 1100	4	CM	3
PILT 1110	1	HR	2-3
PILT 1400	3	QS	3-4
PILT 1420	3	PILT 1250	3
PILT 2050	3		
Total	**14**	**Total**	**11-13**
SUMMER SEMESTER			
DISP 1500	7		
PILT ELEC	1		
Total	**9**		

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience: Any FAA Certification or Military training leading to certification must be reviewed by the department. Official copies of FAA Certification and/or Military training must be submitted for consideration. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

COMMERCIAL FIXED WING – CERTIFICATE OF COMPLETION[CTE] 38 credits minimum

Aviation Related Technologies Division
Westpointe Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2140
www.slcc.edu/professionalpilot
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructors – Erwin Zundel, Daniel Sutliff

Program Description: The two-semester certificate of completion will provide students with the basic knowledge and skills needed to operate aircraft for commercial operations in the United States. The program combines flight training with technical and professional courses essential for success to include flight training leading to FAA rating and endorsements; Commercial Pilot; CFI, CFI/Instrument; aviation industry operations; and human factors in the flight environment. Certificate requirements may be used as credit toward entry-level requirements for Aerospace Aviation Technology AS Degree or toward commercial rating.
Career Opportunities: Career opportunities within the aerospace and aviation industry for pilots include, but are not limited to: U.S. Military, U.S. Customs and Border Protection, Division of Wildlife, Commercial flight operations (flight instructing, scenic tours, cargo, charter, firefighting, parajumpers, trafficwatch), Major Commercial flight operations (regional and major airlines), and private corporate flight departments.

Transfer/Articulation Information: Students who may choose to pursue an AS degree in the future should take courses that meet general education requirements for an AS degree in Aerospace/Aviation.

Program Entry Requirements: Minimum age is 17 for pilot applicants. English literacy in reading and speaking is required. Physical condition must be certified by an FAA Medical Examiner for pilot applicants. A minimum of a Class II or physical exam is required at the approximate cost of $100. To find a Designated Pilot Examiner (DPE) for a Class II Medical Exam please visit the FAA website at www.faa.gov/pilots/amelocator. The physical exam must be completed prior to the first flight lesson. Financial Aid is available for eligible students and must be applied for at least 3 months prior to anticipated need.

Students should possess a strong desire to succeed in each and every endeavor, be willing to devote themselves 100% to a challenging academic and in-flight curriculum and be willing to pursue an active career in a dynamic and fast-paced industry.

Strong, consistent performance in basic high school studies and good overall physical health will adequately prepare students for success in the SLCC program and overall aviation industry.

Students may start this program Fall, Spring or Summer semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a special fee for pilot flight labs. This fee is based on the national average flight training required for the particular certificate. Flight lab fees may vary due to individual abilities and aircraft equipment selected. Contact program faculty for more information on flight lab fees. Federal Aviation Administration knowledge exams and practical test flights for pilot certifications are included in the flight lab fees.

Estimated Cost for Students: The cost of tuition per semester may be found at www.slcc.edu/students-future/tuition-fees. The average cost per semester for books and supplies is $250. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.

Estimated Time to Completion: 3 semesters minimum

Specialized Accreditation: FAA-approved Part 141 flight program

Program Objectives: The FAA-approved Part 141 flight program prepares students to earn the following certificates: Private Pilot Certificate, Instrument Rating, Commercial Certificate, Certified Flight Instructor, Certified Flight Instructor Instrument, and Multi-Engine Instructor. The student must demonstrate through knowledge tests, practical tests, and show through

appropriate records that he/she meets the knowledge, skill, and experience requirement necessary for the associated pilot certificate. The various stages are complete when the student has completed written exams with a minimum passing score of 70%. All program courses require a grade of a C or higher to be considered a passing grade. The FAA practical exam, when required for issuance of an FAA pilot certificate, will be required for completion and issuance of a grade for the applicable flight lab.

An incomplete is a conditional grade given only in *extraordinary cases* where a student has completed a major portion of the class, but is unable to complete course work due to circumstances beyond their control such as major illness/injury, death in the family, and military activation. Other conditions for Incompletes may be issued for flight training labs related to weather delays, aircraft maintenance, and unavailable instructors. All missed flights must be documented and approved by the faculty member overseeing the flight labs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students will acquire substantial knowledge of Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing aeronautical knowledge areas contained in FAA Part 141 curriculum. Students will demonstrate proficiency skills in Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing flight operations areas contained in FAA Part 141 curriculum	1
2. Students will demonstrate effective written communication skills	2
3. Students will demonstrate quantitative literacy skills	3
4. Students will show how to think critically	4

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved QS course			

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1010	Air Transportation	3	F, Sp	
PILT 1250	Instrument Ground School	3	A	PILT 1150 or 1155; Coreq: PILT 1260 or 1265; or instructor approval
PILT 1260	Inst Sim Fxd-Wing Lab	1	A	PILT 1150 Coreq: PILT 1250
PILT 1300	Inst Cert Fxd-Wing Lab	3	A	PILT 1250 or concurrently
PILT 2050	Aviation Meteorology	3	A	
PILT 2100	Commercial Airplane Ground	3	A	PILT 1150
PILT 2200	Cross Country F/W Lab	2	A	Coreq: PILT 1300, PILT 2100

PILT 2240	Com Pilt F/W Cert Lab	2	A	PILT 2200
PILT 2300	CFI/Airplane Lab	2	A	PILT 2240 or PILT 2260 Coreq: PILT 2340
PILT 2310	Human Factors & Safety	3	F, Sp	
PILT 2340	CFI Ground School	3	A	PILT 2100 or 2105
PILT 2350	CFI/Instru Fxd-Wing Lab	1	A	PILT 1300; PILT 2240 . Coreq: PILT 2340
PILT 2500	Single Eng Add On FW Lab	1	A	PILT 2240 or Instructors approval

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
PILT 1010	3	CM	3
PILT 2310	3	QS	3-4
PILT 2050	3	HR	2-3
PILT 2100	3	PILT 2300	2
PILT 2200	2	PILT 2340	3
PILT 2240	2	PILT 2350	1
Total	**16**	**Total**	**14-16**
SUMMER SEMESTER			
PILT 1250	3		
PILT 1260	1		
PILT 1300	3		
PILT 2500	1		
Total	**8**		

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience: Any FAA Certification or Military training leading to certification must be reviewed by the department. Official copies of FAA Certification and/or Military training must be submitted for consideration. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

COMMERCIAL ROTOR WING – CERTIFICATE OF COMPLETION[CTE] 38 credits minimum

Aviation Related Technologies Division
Westpointe Center: Salt Lake City, UT
General Information: (801) 957-4073
Program Information: (801) 957-2140
www.slcc.edu/professionalpilot
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professors – Fiona Silcox
Instructors – Erwin Zundel, Daniel Sutliff

Program Description: The two-semester certificate of completion will provide students with the basic knowledge and skills needed to operate rotor-wing aircraft for commercial operations in the United States. The program combines flight training with technical and professional courses essential for success to include flight training leading to FAA rating and endorsements; Commercial Pilot; CFI, CFI/Instrument; utility operations; turbine engine; aviation industry operations; and human factors in the flight environment. Certificate requirements may be used as credit toward entry-level requirements for Aerospace Aviation Technology AS Degree or toward commercial rating.

Career Opportunities: Career opportunities within the aerospace and aviation industry for pilots include, but are not limited to: U.S. Military, U.S. Customs and Border Protection, Division of Wildlife, Commercial flight operations (flight instructing, scenic tours, cargo, charter, firefighting, parajumpers, trafficwatch), and private corporate flight departments.

Transfer/Articulation Information: Students who may choose to pursue an AS degree in the future should take courses that meet general education requirements for an AS degree in Aerospace/Aviation.

Program Entry Requirements: Minimum age is 17 for pilot applicants. English literacy in reading and speaking is required. Physical condition must be certified by an FAA Medical Examiner for pilot applicants. A minimum of a Class II or physical exam is required at the approximate cost of $100. To find a Designated Pilot Examiner (DPE) for a Class II Medical Exam please visit the FAA website at www.faa.gov/pilots/amelocator. The physical exam must be completed prior to the first flight lesson. Financial Aid is available for eligible students and must be applied for at least 3 months prior to anticipated need.
Students should possess a strong desire to succeed in each and every endeavor, be willing to devote themselves 100% to a challenging academic and in-flight curriculum and be willing to pursue an active career in a dynamic and fast-paced industry.

Strong, consistent performance in basic high school studies and good overall physical health will adequately prepare students for success in the SLCC program and overall aviation industry.

Students may start this program Fall, Spring or Summer semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a special fee for pilot flight labs. This fee is based on the national average flight training required for the particular certificate. Flight lab fees may vary due to individual abilities and aircraft equipment selected. Contact program faculty for more information on flight lab fees. Federal Aviation Administration knowledge exams and practical test flights for pilot certifications are included in the flight lab fees.

Estimated Cost for Students: The cost of tuition per semester may be found at www.slcc.edu/students-future/tuition-fees. The average cost per semester for books and supplies is $250. Most textbooks can be obtained from the College's bookstore, online, or are available at the pilot shop from the flight school on contract.

Estimated Time to Completion: 3 semesters minimum

Specialized Accreditation: FAA-approved Part 141 flight program

Program Objectives: The FAA-approved Part 141 flight program prepares students to earn the following certificates: Private Pilot Certificate, Instrument Rating, Commercial Certificate, Certified Flight Instructor, and Certified Flight Instructor Instrument. The student must demonstrate through knowledge tests, practical tests, and show through appropriate records that he/she meets the knowledge, skill, and experience requirement necessary for the associated pilot certificate. The various

stages are complete when the student has completed written exams with a minimum passing score of 70%. All program courses require a grade of a C or higher to be considered a passing grade. The FAA practical exam, when required for issuance of an FAA pilot certificate, will be required for completion and issuance of a grade for the applicable flight lab.

An incomplete is a conditional grade given only in *extraordinary cases* where a student has completed a major portion of the class, but is unable to complete course work due to circumstances beyond their control such as major illness/injury, death in the family, and military activation. Other conditions for Incompletes may be issued for flight training labs related to weather delays, aircraft maintenance, and unavailable instructors. All missed flights must be documented and approved by the faculty member overseeing the flight labs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students will acquire substantial knowledge of Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing aeronautical knowledge areas contained in FAA Part 141 curriculum. Students will demonstrate proficiency skills in Instrument, Commercial, Flight Instructor, and Fundamentals of Instructing flight operations areas contained in FAA Part 141 curriculum	1
2. Students will demonstrate effective written communication skills	2
3. Students will demonstrate quantitative literacy skills	3
4. Students will show how to think critically	4

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved QS course			

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PILT 1010	Air Transportation	3	F, Sp	
PILT 1250	Instrument Grnd School	3	A	PILT 1150 or 1155; Coreq: PILT 1260 or 1265; or instructor approval
PILT 1265	Inst Sim Rtr-Wing Lab	1	A	PILT 1155. Coreq: PILT 1250
PILT 1315	Inst R/W Cert Lab	3	A	PILT 1250 or concurrently
PILT 2050	Aviation Meteorology	3	A	
PILT 2205	Cross Country R/W Lab	2	A	PILT 1315. Coreq: PILT 2100
PILT 2245	Com Pilt R/W Cert Lab	2	A	PILT 2205
PILT 2305	CFI/Rotor-Wing	2	A	PILT 2245 or PILT 2265. Coreq: PILT 2340
PILT 2310	Human Factors & Safety	3	F Sp	
PILT 2340	CFI Ground School	3	A	PILT 2100 or 2105
PILT 2355	CFI/Instru Rtr-Wing Lab	1	A	PILT 1315; PILT 2245. Coreq: PILT 2340
PILT 2405	Turbine Eng Rtr-Wing Lab	1	A	Instructor Approval

PILT 2105	Commercial Helicopter Ground	3	A	PILT 1155

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CM	3	PILT 1250	3
PILT 1010	3	PILT 1265	1
PILT 2310	3	PILT 1315	3
PILT 2105	3	PILT 2050	3
PILT 2205	2	PILT 2305	2
PILT 2245	2	PILT 2340	3
		PILT 2355	1
Total	**16**	**Total**	**16**
SUMMER SEMESTER			
HR	2-3		
QS	3-4		
PILT 2405	1		
Total	**6-8**		

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Credit for Prior Experience: Any FAA Certification or Military training leading to certification must be reviewed by the department. Official copies of FAA Certification and/or Military training must be submitted for consideration. Private Certification or Private ground school experience may be substituted from the Major Course Requirements area after review or by any course work from any elective track within the Aerospace/Aviation Technology Degree.

AMERICAN SIGN LANGUAGE – ASSOCIATE OF ARTS (AA) 63 credits minimum

Humanities, Language and Culture Department
Taylorsville Redwood Campus
General Information, (801) 957-4073
Department Secretary, (801) 590-6234 VP
www.slcc.edu/asl
Academic Advisor, AAB 237B, (801) 957-3866

Associate Dean: Dr. Paul Allen

Program Faculty:
Assistant Professors – Connie Spanton-Jex
Instructors – Duane Kinner, David Davenport

Program Description: The Department of American Sign Language offers courses in language, literature and culture that enable students to complete an institutional requirement of Language (LN) as well as an Associate of Arts degree. We prepare students to function effectively in the Deaf community using American Sign Language while gaining an understanding and appreciation of humanistic ideals and values.

Career Opportunities: Upon the completion of the ASL Program, students will be well suited for complementary studies in Education, Deaf Studies, medical fields, sales fields, acting, and ASL/English Interpreting. The program will provide students with a strong foundation in American Sign Language and Deaf culture.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Cost for Students: $500

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is five semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will be able to use American Sign Language with sufficient structural accuracy to communicate in most formal and informal conversations regarding day-to-day activities, social and professional topics.	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
Students will be able to use American Sign Language for descriptive, expository, dialogue, procedural, informational, persuasive, and narrative discourse.	1, 2, 4, 5
Students will be able to act with respect, knowledge and understanding of Deaf people and ASL, with an appreciation for their linguistic and cultural diversity, values, and social customs	1, 2, 4, 5
Students will demonstrate understanding of Deaf people from diverse backgrounds, including difference in language use, communication modes, age, gender and ethnic identity.	1, 2, 4, 5
Students will be able to identify their own cultural values and social customs and compare/contrast them with those of the Deaf community in the United States and with other cultural groups.	1, 2, 4, 5
Students will be able to demonstrate understanding of the implications of cultural differences such as collectivism and individualism and high and	1, 2, 4, 5

low context cultures.	
Students will demonstrate critical thinking and problem solving skills that will aid in continual language development, cultural competencies, and lifetime learning.	1, 2, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing(EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing(EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing(EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning(QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any approved QL course

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

NOTE: For this program, students may select an additional DV course

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

LANGUAGE (LN) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
ASL 1020	Beginning ASL II(LN)	5	A	ASL 1010

NOTE: *In the event a student can document a hearing loss and demonstrate ASL is their first language, it is possible to take an additional ENGL 2000+ course after ENGL 1010 and 2010 and count it as the (AA) Language requirement. Other options may be available, contact the American Sign Language Department for details.

For students with demonstrated proficiency in American Sign Language, it is possible to enroll directly in more advanced courses with instructor approval. Upon completion of that course with a grade of B or higher, students can petition for credit for the first-year courses bypassed.

REQUIRED COURSES: (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ASL 2010	Intermediate ASL I	4	F, Sp	ASL 1020
ASL 2020	Intermediate ASL II	4	Sp, Su	ASL 2010
ASL 2100	Proficiency Development	4	F,	ASL 2020

PROGRAM ELECTIVE COURSES: (SELECT 9 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ASL 1300	Conversation I	1	F, Sp	ASL 1020
ASL 1900	Ind Studies Spec Projects	1-3		ASL 1020
ASL 2300	Conversation II	1	F,	ASL 2020
ASL 2400	Topics in ASL	1-3	Sp	ASL 2010
ASL 2700	Intro to ASL Literature	3	Sp	ASL 2010
ASL 2710	Intro to Deaf Art/Film	3	F	ASL 2010
ASL 2750	Topics in Deaf Culture	1-3	Sp	ASL 2010
ASL 2900	Special Topics	1-3		ASL 2010

ELECTIVE COURSES: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
THEA 1033	Basic Acting(FA)	3	F, Sp	
ENGL 1050	Rdg Contmp Cltr(HU,DV)	3	A	
ENGL 2030	Language in Society(HU,DV)	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2760	Gender Cultral Stdy(HU,DV)	3	Sp	
ENGL 2850	Intro to Queer Studies(HU,DV)	3	A	
COMM 2110	Interpersonal Comm(ID)	3	A	
COMM 2150	Intercultural Comm(ID,DV)	3	A	
DANC 1200	Intro to Modern Dance(FA)	3	F, Sp	
DANC 1500	Intro to Jazz Dance (FA)	3	F, Sp	

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ASL 1020(LN)	5	ASL 2010	4
THEA 1033(FA)	3	ASL 1300	1
ENG 1010(EN)	3	ENG 2010	3
LW	1	DISTRIBUTION (2)	6
QL	3		
Total	**15**	**Total**	**14**
SUMMER SEMESTER			
ASL 2020	4		
DISTRIBUTION	3		
Total	**7**		
FALL SEMESTER		**SPRING SEMESTER**	
ASL 2100	4	ASL 2700	3
ASL 2710	3	STUDENT CHOICE	3
ASL 2300	1	DISTRIBUTION (2)	6
DISTRIBUTION	3	ASL 2400	1
AI	3		
Total	**14**	**Total**	**13**

Advising Notes: Students already possessing fluent ASL skills or previous interpreting experience may be eligible for the American Sign Language/English Interpreting program. If students intend to enter the ASL English Interpreting program, a "B-" grade or better is required in all ASL courses. For more information contact Connie Spanton-Jex at (801) 957-4642.

AMERICAN SIGN LANGUAGE/ENGLISH INTERPRETING – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 70 credits minimum

Humanities, Language and Culture Department
Taylorsville Redwood Campus
General Information, (801) 957-4073
Program Information, (801) 957-4642
www.slcc.edu/asl
Academic Advisor, AAB 237B, (801) 957-3866

Associate Dean: Dr. Paul Allen

Program Faculty:
Assistant Professors – Connie Spanton-Jex
Instructors – Duane Kinner, David Davenport

Program Description: The ASL/English Interpreting program is designed to prepare new and returning students for state and national certification testing. Obtaining certification can lead to employment in the rapidly expanding and rewarding field of ASL/English Interpreting. After successful completion of the program, students must apply for and pass the Utah State Interpreter Certification exam, National Interpreter Certification and/or the Educational Interpreter Performance Assessment to work as a professional interpreter. The ASL/English Interpreter Education Program will prepare students to test for the Utah Professional Certification, National Interpreter Certification and/or the Educational Interpreter Performance Assessment. As of July 1, 2012, candidates must have a bachelor's degree (in any field) or 120 college credits to sit for the National Interpreter Certification exam. Utah Professional Certification and Educational Interpreter Certification do not require a bachelor's degree.

Transfer/Articulation Information: While an AAS is typically a terminal degree, graduates of SLCC's ASL/English Interpreting program can continue their studies at a four-year institution by completing that institution's residency and upper-division requirements because they have completed their entire general education core at SLCC. SLCC has identified a number of good transfer options within USHE and will advise students accordingly.

Program Entry Requirements: In accordance with SLCC admissions requirements, students must possess a high school diploma or equivalent before matriculating into the ASL/English Interpreting program.

Entrance into the ASL English Interpreting program requires prerequisites and an application. All prerequisite courses must be completed with a "B-" grade or better. For application information, please contact the ASL Department or the ASL Academic Advisor.

In addition, students must demonstrate ASL proficiency at the ASL 2020 level or higher before enrolling in interpreting coursework (INTR 1100 and beyond). Students who successfully pass ASL 2020 with a B or better or demonstrate ASL proficiency at the 2020 level using standard department procedures will satisfy the ASL prerequisites. Students who are not yet proficient in ASL at the 2020 level will not be able to complete the AAS in ASL/English Interpreting in the two years typically expected for an associate's degree because of the additional time required to become language proficient. Such students may want to consider completing an Associate of Science transfer degree with a pre-major in American Sign Language before pursuing a degree in ASL/English Interpreting at the associate's or bachelor's level.

Total Program/Course Fees: $60

Estimated Cost for Students: $1200

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Specialized Accreditation: SLCC is currently seeking accreditation from the Collegiate Council on Interpreter Education (CCIE).

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Students will demonstrate broad general knowledge in many diverse fields in order to interpret in varied work environments.	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively

	5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
2. Students will sufficiently master program-specific, professional knowledge and demonstrate proficiency by discussing historical, linguistic and cultural issues as well as professional standards and roles for an ASL/English Interpreter.	1, 2, 4, 5
3. Students will sufficiently master program-specific, professional education competencies and demonstrate proficiency by effectively interpreting from ASL to English and English to ASL.	1, 2, 4, 5
4. Students will have completed in-depth internship experiences.	1, 2, 4, 5
5. Students will demonstrate critical thinking and problem-solving skills that can be applied to interpreting work to enhance language fluency.	2, 4
6. Students will obtain state and/or national certification (Utah Certification, EIPA, NIC).	1, 2, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any approved QL course

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Principles Public Speaking(IN)	3	A	

DISTRIBUTION AREAS:

Complete the following Interdisciplinary/Diversity (ID/DV) course:

COURSE		CR	SEM	PREREQUISITE
COMM 2150	Intercultural Comm(ID,DV)	3	A	

Choose one course (three credit hours) from each of the following distribution areas.

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Physical Science (PS)	3		

Social Science (SS)		3

REQUIRED COURSES: (32 CREDITS)

COURSE		CR	SEM	PREREQUISITE
INTR 1000	Intro to Interpreting	1	A	
INTR 1100	Connect to Community I	1	F	Acceptance to the INTR program
INTR 1110	Connect to Community II	1	Sp	INTR 1100
INTR 1200	Interpreting I	5	F	Acceptance to the INTR program
INTR 1300	Ethics/Prof Standards	3	F	Acceptance to the INTR program
INTR 1400	Interpreting II	5	Sp	INTR 1200
INTR 1500	Comparative Linguistics	3	Sp	INTR 1200
INTR 1600	Internship I	2	F	INTR 1400
INTR 2000	Research	1	Su	INTR 1400
INTR 2100	Connect to Community III	1	F	INTR 1110
INTR 2200	Interpreting III	5	F	INTR 1400
INTR 2400	Interpreting IV	2	Sp	INTR 2200
INTR 2600	Internship II	2	Sp	INTR 2200

ELECTIVE COURSES: (SELECT 4 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
INTR 1900	Ind Studies/Special Project	1-2	TBA	INTR 1400 and instructor approval
INTR 2900	Special Studies	1-2	A	INTR 2200 and instructor approval
INTR 2910	Educational Interpreting	2	F	INTR 1400
INTR 2920	VRS Interpreting	2	Sp	INTR 2200
INTR 2930	Community Interpreting	2	Su	INTR 1400

SAMPLE SCHEDULE

SUMMER SEMESTER			
INTR 1000	1		
COMM 1020(IN)	3		
ENGL 2010	3		
COMM 2150(ID,DV)	3		
Total	**10**		
FALL SEMESTER		**SPRING SEMESTER**	
INTR 1100	1	INTR 1110	1
INTR 1200	5	INTR 1400	5
INTR 1300	3	INTR 1500	3
QL	3	PS DISTRIBUTION	3
AI	3	SS Distribution	3
Total	**15**	**Total**	**15**
SUMMER SEMESTER			
INTR ELEC	2		
INTR 2000	1		
Total	**3**		
FALL SEMESTER		**SPRING SEMESTER**	
INTR 2100	1	INTR 2400	2
INTR 2200	5	INTR 2600	2
INTR 1600	2	INTR ELEC	2
INTR ELEC	2	HU DISTRIBUTION	3
BS DISTRIBUTION	3	FA DISTRIBUTION	3
		LW	1
Total	**13**	**Total**	**13**

Additional Program Notes: All ASL/English Interpreting coursework must be completed with a "B-" grade or better. A student receiving a grade of C+ or lower will not be allowed to continue the program. For more information contact Connie Spanton-Jex at (801) 957-4642. INTR 1100 has been designated as a service learning course.

ANTHROPOLOGY – ASSOCIATE OF ARTS (AA) 63 credits minimum

History, Anthropology and Political Science Department
Taylorsville Redwood Campus, AAB 165
Associate Dean: Marianne McKnight, AAB 165Q, 801-957-4547
Administrative Assistant: Laura Rice, AAB 165, 801-957-4307
www.slcc.edu/history
Academic Advisor: Sidney McGuire Brown, AAB, 801-957-3866

General Information: 801- 957-4073

Program Faculty:
Associate Professors – James Dykman, Jude Higgins, Melissa Schaefer

Program Description: Anthropology is the study of humanity. Anthropology is distinguished from other disciplines by its emphasis on a holistic approach to the study of human behavior. Anthropologists consider culture, history, language, and biology essential for a complete understanding of humankind. The History and Anthropology Department provides a wide variety of courses that range from general surveys to specialized topics. The program goes far beyond an emphasis on coverage and content; it is designed to teach students to think critically, and communicate effectively. Additionally, most core course requirements carry the General Education designation. This means that this program is also a vehicle for students to broaden their perspectives and deepen their understandings of the world around them.

Career Opportunities: See www.slcc.edu/history for updated career opportunities and information.

Transfer/Articulation Information: Students who complete the program will transfer more easily to other Anthropology Programs across the State of Utah. The following institutions offer BA and/or BS degrees in Anthropology: University of Utah, Utah State University, Brigham Young University, Utah Valley University, and Weber State University. Students who complete the Anthropology AA at SLCC may satisfy pre-major courses for all of these programs.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Cost for Students: $100-$150 for textbooks per semester.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will **acquire substantive knowledge** of: a) the similarities and differences of diverse cultures b) archaeological techniques, methods and theories that anthropologists rely upon to reconstruct the past life ways in order to understand cultural adaptation to various environments c) cultural approaches to the study of indigenous narratives and stories d) ethnographic data collection and analysis e) biological variation of past and present humans and their closest relatives f) evolutionary theories and processes g) the holistic approach used by anthropologists h) the scientific method and how it is used by anthropologists	1 – Substantive Knowledge
Students will **speak and write analytically and comparatively** about anthropological themes, theories, methods, interpretations, arguments and ideas in a skilled and respectful manner	2 – Communicate Effectively
Students will **think critically** when they: a) gather, identify, differentiate and analyze ethnographic data b) evaluate different anthropological approaches and arguments. c) analyze empirical data, make observations, and generate and test	4 – Think Critically

hypotheses d) compare, contrast, interpret, and weigh multiple disparate lines of evidence and points of view about human evolution	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any approved QL course

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: Students pursuing the Anthropology program may not use ANTH 1020 to fulfill the Biological Sciences (BS) requirement.

NOTE: Courses that meet General Education requirements may be used to meet program requirements. If this option is chosen, student must complete additional elective courses to meet the total credit hour requirement. Please meet with an academic advisor to discuss options.

LANGUAGE (LN) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
LANG 1020	(LN)	5		LANG 1010

NOTE: *LANG prefix does not exist—that prefix would be replaced by the prefix for the individual language chosen: ARB, CHI, FRN, GER, ITL,JPN, NAV, POR, RUS, SAM, SPN, TNG

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ANTH 1010	Culture & Human Exper(SS)	3	A	
ANTH 1020	Human Origins (BS)	3	A	

ANTH 1030	World Prehistory (SS)	3	A

PROGRAM COURSE ELECTIVES: (SELECT 1 COURSE FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ANTH 2011	People & Cultures SW(HU)	3	F	
ANTH2030	Intro to Archaeology(SS)	3	A	
ANTH 2120	Sacred Traditions(SS)	3	Sp	
ANTH 2530	Historical Archaeology(ID)	3	Sp	
HIST 2600	Native Amer Voices(SS,DV)	3	Sp	
HIST 2800	Utah Diverse Heritg (SS,DV)	3	F, Sp	

ANTHROPOLOGY & ALLIED FIELD ELECTIVES: (6 CREDITS)

Select 6 credits from the following courses or other courses as approved by department.

COURSE		CR	SEM	PREREQUISITE
ANTH 2011	People & Cultures SW(HU)	3	F	
ANTH 2120	Sacred Traditions(SS)	3	Sp	
ANTH 2030	Intro to Archaeology (SS)	3	A	
ANTH 2341	Fundamentals of Archaeology	3	F	
ANTH 2530	Historical Archaeology (ID)	3	F, Sp	
ANTH 2969	Cultural Resource Management	3	F, Sp	
ANTH 2030	Intro to Archaeology (SS)	3	A	
ANTH 2950	Archaeology Internship	3	S	
HIST 1300	Colonial Latin America(SS)	3	F	
HIST 1310	Modern Latin America(SS)	3	Sp	
HIST 1450	Early Middle East(SS)	3	F	
HIST 1460	Modern Middle East(SS)	3	Sp	
HIST 1500	World History to 1500(SS)	3	F, Sp	
HIST 1510	World Hist Since 1500(SS)	3	F, SP	
HIST 2600	Native Amer Voices(SS,DV)	3	Sp	
HIST 2800	Utah Diverse Heritg (SS,DV)	3	F, Sp	
HIST 2950	Archival Internship	3	A	
BIOL 2030	Genetics	4	F, SP	BIOL 1610 w/C grade or better AND CHEM 1210 w/C grade or better. Coreq: BIOL 2035
EDU 2150	Intro to Multicultural Ed	3	F, Sp	
ENGL 2810	Native Amer Lit/Exp(HU,DV)	3	Sp*	ENGL 1010 w/C grade or better
GEOG 1400	Human Geography (ID)	3	F, Sp	

*Course taught Spring semesters in odd years

ADDITIONAL ELECTIVES: (6 CREDITS)

Select 6 credits from any college level courses numbered 1000 or above.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ANTH 1010	3	ANTH 1020	3
ENGL 1010	3	ENGL 2010	3
DISTRIBUTION	3	MATH 1040	3
LANG 1010 OR ELEC	3-5	AI	3
HLAC	1	LANG 1020	5
Total	**13-15**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
ANTH 1030	3	ANTH ELEC	3
ANTH ELEC	3	STUDENT CHOICE	3
PROG ELEC	3	DISTRIBUTION (3)	9
DISTRIBUTION (2)	6		
ELEC	3		
Total	**18**	**Total**	**15**

Advising Notes: It is recommended students take *MATH 1040: Intro to Statistics* as QL course.

ANTHROPOLOGY – ASSOCIATE OF SCIENCE (AS) 61 credits minimum

History, Anthropology and Political Science Department
Taylorsville Redwood Campus, AAB 165
Associate Dean: Marianne McKnight, AAB 165Q, 801-957-4547
Administrative Assistant: Laura Rice, AAB 165, 801-957-4307
www.slcc.edu/history
Academic Advisor: Sidney McGuire Brown, AAB 237B, 801-957-3866

General Information, 801-957-4073

Program Faculty:
Associate Professors – James Dykman, Jude Higgins, Melissa Schaefer

Program Description: Anthropology is the study of humanity. Anthropology is distinguished from other disciplines by its emphasis on a holistic approach to the study of human behavior. Anthropologists consider culture, history, language, and biology essential for a complete understanding of humankind. The History and Anthropology Department provides a wide variety of courses that range from general surveys to specialized topics. The program goes far beyond an emphasis on coverage and content; it is designed to teach students to think critically, and communicate effectively. Additionally, most core course requirements carry the General Education designation. This means that this program is also a vehicle for students to broaden their perspectives and deepen their understandings of the world around them.

Career Opportunities: See www.slcc.edu/history/ for updated career opportunities and information.

Transfer/Articulation Information: Students who complete the program will transfer more easily to other Anthropology Programs across the State of Utah. The following institutions offer BA and/or BS degrees in Anthropology: University of Utah, Utah State University, Brigham Young University, Utah Valley University, and Weber State University. Students who complete the Anthropology AS at SLCC may satisfy pre-major courses for all of these programs.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Cost for Students: $100-$150 for textbooks per semester.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will **acquire substantive knowledge** of: a) the similarities and differences of diverse cultures b) archaeological techniques, methods and theories that anthropologists rely upon to reconstruct the past life ways in order to understand cultural adaptation to various environments c) cultural approaches to the study of indigenous narratives and stories d) ethnographic data collection and analysis e) biological variation of past and present humans and their closest relatives f) evolutionary theories and processes g) the holistic approach used by anthropologists h) the scientific method and how it is used by anthropologists	1 – Substantive Knowledge
Students will **speak and write analytically and comparatively** about anthropological themes, theories, methods, interpretations, arguments and ideas in a skilled and respectful manner	2 – Communicate Effectively
Students will **think critically** when they: a) gather, identify, differentiate and analyze ethnographic data b) evaluate different anthropological approaches and arguments. c) analyze empirical data, make observations, and generate and test	4 – Think Critically

hypotheses d) compare, contrast, interpret, and weigh multiple disparate lines of evidence and points of view about human evolution	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any approved QL course

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: Students pursuing the Anthropology program may not use ANTH 1020 to fulfill the Biological Science (BS) requirement.

NOTE: Courses that meet General Education requirements may be used to meet program requirements. If this option is chosen, student must complete additional elective courses to meet the total credit hour requirement. Please meet with an academic advisor to discuss options.

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ANTH 1010	Culture & Human Exper(SS)	3	A	
ANTH 1020	Human Origins (BS)	3	A	
ANTH 1030	World Prehistory (SS)	3	A	

PROGRAM COURSE ELECTIVES: (SELECT 1 COURSE FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ANTH 2011	People & Cultures SW(HU)	3	F	
ANTH 2030	Intro to Archaeology (SS)	3	A	
ANTH 2120	Sacred Traditions(SS)	3	Sp	

ANTH 2530	Historical Archaeology(ID)	3	Sp	
HIST 2600	Native Amer Voices(SS,DV)	3	Sp	
HIST 2800	Utah Diverse Heritg (SS,DV)	3	F, Sp	

ANTHROPOLOGY & ALLIED FIELD ELECTIVES: (12 CREDITS)

Select 12 credits from the following courses or other courses as approved by department.

COURSE		CR	SEM	PREREQUISITE
ANTH 2011	People & Cultures SW(HU)	3	F	
ANTH 2120	Sacred Traditions(HU)	3	Sp	
ANTH 2030	Intro to Archaeology (SS)	3	A	
ANTH 2341	Fundamentals of Archaeology	3	F	
ANTH 2530	Historical Archaeology (SS)	3	F, Sp	
ANTH 2969	Cultural Resource Management	3	F, Sp	
ANTH 2950	Archaeology Internship	3	Su	
HIST 1300	Colonial Latin America(SS)	3	F	
HIST 1310	Modern Latin America(SS)	3	Sp	
HIST 1450	Early Middle East(SS)	3	F	
HIST 1460	Modern Middle East(SS)	3	Sp	
HIST 1500	World History to 1500(SS)	3	F, Sp	
HIST 1510	World Hist Since 1500(SS)	3	F, SP	
HIST 2120	Sacred Traditions(HU)	3	Sp	
HIST 2600	Native Amer Voices(SS,DV)	3	Sp	
HIST 2800	Utah Diverse Heritg (SS,DV)	3	F, Sp	
HIST 2950	Archival Internship	3	A	
BIOL 2030	Genetics	4	F, SP	BIOL 1610 w/C grade or better AND CHEM 1210 w/C grade or better. Coreq: BIOL 2035
EDU 2150	Intro to Multicultural Ed	3	F, Sp	
ENGL 2810	Native Amer Lit/Exp(HU,DV)	3	Sp*	ENGL 1010 w/C grade or better
GEOG 1400	Human Geography (ID)	3	F, Sp	

*Course taught Spring semesters in odd years

ADDITIONAL ELECTIVES: (3 CREDITS)

Select 3 credits from any college level courses numbered 1000 or above.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ANTH 1010	3	ANTH 1020	3
ENGL 1010	3	ENGL 2010	3
ANTH ELEC	3	ANTH ELEC	3
DISTRIBUTION	3	MATH 1040	3
STUDENT CHOICE	3	AI	3
HLAC	1		
Total	**16**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
ANTH 1030	3	ANTH ELEC	3
ANTH ELEC	3	ELEC	3
PROG ELEC	3	DISTRIBUTION (3)	9
DISTRIBUTION (2)	6		
Total	**15**	**Total**	**15**

Advising Notes: It is recommended students take *MATH 1040: Intro to Statistics* as QL course.

CULTURAL RESOURCE MANAGEMENT
– CERTIFICATE OF PROFICIENCY — 24 credits minimum

History, Anthropology and Political Science Department
Taylorsville Redwood Campus, AAB 165
Associate Dean: Marianne McKnight, AAB 165Q, 801-957-4547
Administrative Assistant: Laura Rice, AAB 165, 801-957-4307
www.slcc.edu/history see CRM Certificate
Academic Advisor: Sidney McGuire Brown, AAB 237B, 801-957-3866
General Information: 801-957-4073

Program Faculty:
Associate Professors – Jim Dykman, Jude Higgins, Melissa Schaefer

Program Description: Cultural resources such as archaeological sites, historic buildings and structures, objects and landscapes are tangible links with the past. The purpose of the field of Cultural Resource Management (CRM) is to appropriately study, preserve, and manage these resources so that they will survive for future generations. This program will teach students about CRM and prepare them for a career in the field.

Career Opportunities: Work for local, state and federal entities as well as private CRM firms

Transfer/Articulation Information: This program comprises courses which articulate to four-year institutions either as Anthropology program requirements, Geography program requirements, Anthropology electives, Geography Electives, or General Education courses

Program Entry Requirements: None

Total Program/Course Fees: Fees for the program will range from $50.00 to $75.00 an include $25 for each geospatial technology course.

Estimated Cost for Students: Tuition $4008.00; Fees $209.00; Books – will range from $700 to $900

Estimated Time to Completion: Two to Three semesters

Specialized Accreditation:

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Student will demonstrate knowledge of: a) the foundations, key concepts, goals of Cultural Resource Management; b) federal resource laws, regulations and requirements surrounding cultural, historical, and archaeological remains; c) the professional practices involved in CRM such as survey, testing, excavating, and analysis of cultural e) the basic methods and theories used in the field of archaeology including reliable space and time measurements in archaeology; f) the fundamental concepts, theories, and applications of Geographic Information Science and Technology (GIS&T), including the problems and challenges for representing the earth spatially and over time. g) demonstrate basic proficiency in the fundamentals of remote sensing and spatial analysis techniques. h) cartographic and map design concepts.	1 – Acquire Substantive Knowledge
Students will demonstrate the ability to write and speak effectively a) about their own research-based arguments and conclusions; b) using appropriate field-specific terminology; c) about their understanding of complex laws and regulations; d) about their knowledge and skills to prospective employers; e) describe clearly and accurately the process of creating data.	2 – Communicate Effectively

Students will a) use and interpret quantitative data generated through archaeological research; b) create original graphics and understand and interpret topographical and archaeological site maps c) demonstrate proficiency in the creation and acquisition of spatial data including the use of Global Positioning Systems. d) demonstrate an ability to create and change representations of Earth through data, coordinate systems, and projections.	3 – Develop Quantitative Literacy
Students will a)analyze and evaluate issues and debates within CRM and historical archaeology and relate the evidence for particular local practices or events to wider global forces and trends; b) demonstrate the ability to use the written record to inform and contextualize cultural remains and to synthesize information from disparate sources; c) analyze and evaluate the ways archaeological evidence complement or conflict with historical records and the differing and sometimes contradictory evidence of cultural heritage; d) analyze the politics of heritage preservation; e)evaluate the complexities and ambiguities in federal laws and regulations and the various ways they are interpreted and executed;	4 – Think Critically and Creatively
Students will be civically engaged as they work with professionals in the field of heritage preservation.	5 – Civic Engagement
Students will work with others in a professional manner as they a) survey, test, excavate and analyze cultural remains; b) work with/on a team to preserve cultural heritage; c) work within the legal framework in which cultural resource management is practiced.	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy

REQUIRED COURSES: (23-24 CREDITS)				
COURSE		**CR**	**SEM**	**PREREQUISITE**
ANTH 1030	World Prehistory (SS)	3	All	
ANTH 2030	Intro to Archaeology(SS)	3	All	
ANTH 2969	Cultural Resource Mgmt.	3	F,S	
ANTH 2990	Historic Archaeology (ID)	3	F, S	
ANTH 2000 ANTH 2341	Archaeology Internship Or Fundamentals of Arch*	3 2	Su F,S	
GEOG 1800	Mapping Our World (ID)	3	All	
GEOG 1820	Intermediate GIS	3	All	GEOG 1800
HIST 2000*	Internship-Archival Research	3	F,S	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ANTH 1030	3	ANTH 2030	3
ANTH 2969	3	GEOG 1800	3
ANTH 2341*	3	ANTH 2530	3
Total	**9**	**Total**	**9**
SUMMER SEMESTER			
GEOG 1820	3		
ANTH 2950*	3		
HIST 2950	3		
Total	**9**		

Advising Notes:
Certificates of Proficiency do not qualify for Federal Financial Aid. However, courses required for the certificate may be used as electives for an Associate of Science—which is available for Financial Aid. Please see Financial Aid and an Academic Advisor for more information.

Additional Program Notes:
*ANTH 2341 is the course substitute for the summer internship- ANTH 2950. Beginning Fall 2015, the former will be offered spring semesters while the latter only in the summer.

*** Credits earned in the CRM certificate may be stacked with additional General Education credits and other credits to earn an AS degree. Courses in this certificate will meet requirements in the following areas:

- General Education: ANTH 1030, ANTH 2030 provide Social Science credit. ANTH 2530 and GEOG 1800 provide Interdisciplinary credit
- Anthropology: ANTH 1030 is a required course, ANTH 2030, 2341, and 2530 are major electives
- History: HIST 2000 is a major elective
- Geospatial Technology: GEOG 1800 and GEOG 1820 are required courses

APPRENTICESHIP[CTE] BRICK MASON TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: Brick Masons build walls, fireplaces, chimneys, arches, columns and other structures using brick, concrete, cinder block, stone, marble and other materials; the work is typically outdoors. Brick masons work to specific measurements and rigid specifications. The curriculum is developed by the National JATC and approved by the Federal Bureau of Apprenticeship and Training. This is a three year program requiring 6,000 hours of on-the-job training as well as 432 clock hours of related instruction.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Brick Mason Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 0990 by scoring a minimum of 75 on the arithmetic portion and 40-53 on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0920 or MATH 0950 or completing APPR 1470 (Math for the Trades) with a grade of C or higher before registering for the Brick Mason program.

For information on getting started, please visit **www.slcc.edu/students-future/admissions**

Estimated Cost for Students: Tuition per semester: **www.slcc.edu/cashiering/tuition-and-fees**

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively.

	5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
Students will achieve entry-level proficiency in all aspects of brick masonry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
APPR 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (18 CREDITS)

Choose one course (three credits) from each of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BLA 1110	Brick Layer IA	5	F	APPR 1470 w/C or better or MATH 0990 placement
BLA 1120	Brick Layer IB	5	Sp	BLA 1110 w/C or better
BLA 1210	Brick Layer IIA	5	F	BLA 1120 w/C or better
BLA 1220	Brick Layer IIB	5	Sp	BLA 1210 w/C or better
BLA 2310	Brick Layer IIIA	5	F	BLA 1220 w/C or better
BLA 2320	Brick Layer IIIB	5	Sp	BLA 2310 w/C or better

NOTE: BLA students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*			
SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
APPR 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
BLA 1110	5	BLA 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
ID	3-4		
Total	**9-10**		
FALL SEMESTER		**SPRING SEMESTER**	
BLA 1210	5	BLA 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
BS	3-4		
HR	2-3		
HU	3		
TOTAL	**8-10**		
FALL SEMESTER		**SPRING SEMESTER**	
BLA 2310	5	BLA 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
FA	3-4		
PS	3		
SS	3		
Total	**9-10**		

Advising Notes: Apprenticeship programs may require a math prerequisite. A grade of C or better is required in all core courses for passing and receiving clock hours. Some programs may have stricter requirements. Students should check their individual programs for more information on prerequisites and entrance requirements. Attendance is mandated by federal law and a student cannot pass a course if out of compliance.

Classes are to be taken in the sequence in which they are given. A student must complete each class with a C or higher grade to move onto the next level class. Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

Each course will be offered based on student enrollment. All Major BLA Course Requirements must be taken to complete the apprenticeship curriculum.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete their General Education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Brick Mason Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] CARPENTRY INDEPENDENT TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: Carpenters in the Independent program construct, remodel, alter or repair wood in combination with other material structures. Carpenters work with wood products, build concrete forms, platforms, structures and work in conjunction with other trades such as iron workers, brick masons and other craft workers. This program is a competency-based national curriculum requiring that all of the modules and 8,000 hours of on-the-job training be completed to sit for the comprehensive examination for a journeyman's certificate. Registration and certification will also be provided for those registered by the Bureau of Apprenticeship and Training.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Carpentry Independent Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 0990 by scoring a minimum of 75 on the arithmetic portion and 40-53 on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0920 or MATH 0950 or completing CPI 1470 (Math for the Trades) with a grade of C or higher before registering for the carpentry independent program.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively.

	3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
CPI 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (9 CREDITS)

Choose three credits from three of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CPI 1110	Carpenter IA	5	F	CPI 1470 w/C or better or MATH 0990 placement
CPI 1120	Carpenter IB	5	Sp	CPI 1110 w/C or better
CPI 1210	Carpenter IIA	5	F	CPI 1120 w/C or better
CPI 1220	Carpenter IIB	5	Sp	CPI 1210 w/C or better
CPI 2310	Carpenter IIIA	5	F	CPI 1220 w/C or better
CPI 2320	Carpenter IIIB	5	Sp	CPI 2310 w/C or better
CPI 2410	Carpenter IVA	5	F	CPI 2320 w/C or better
CPI 2420	Carpenter IVB	5	Sp	CPI 2410 w/C or better

ELECTIVE COURSES

COURSE		CR	SEM	PREREQUISITE
CPI 2000	Carpentry Co-op	2-4	A	Departmental approval

NOTE: CPI students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*			
SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
CPI 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
CPI 1110	5	CPI 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
CPI 1210	5	CPI 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
HR	2-3		
DISTRIBUTION	3		
TOTAL	**5-6**		
FALL SEMESTER		**SPRING SEMESTER**	
CPI 2310	5	CPI 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
DISTRIBUTION	6		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
CPI 2410	5	CPI 2420	5
Total	**5**	**Total**	**5**

Advising Notes: Apprenticeship programs may require a math prerequisite. Classes are to be taken in the sequence in which they are given. All major CPI course requirements must be taken to complete the apprenticeship curriculum. A grade of C or better is required in all core courses for passing and receiving clock hours. Some programs may have stricter requirements. Students should check their individual programs for more information on prerequisites and entrance requirements. Attendance is mandated by federal law and a student cannot pass a course if out of compliance. Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate of in Carpentry Independent Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] CARPENTRY JATC TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: Carpenters in the JATC program construct, remodel, alter or repair wood in combination with other material structures. Carpenters work with wood products, build concrete forms, platforms, structures and work in conjunction with other trades such as iron workers, brick masons and other craft workers. This program is a competency-based national curriculum requiring that all of the modules and 8,000 hours of on-the-job training be completed to sit for the National Comprehensive Examination for a journeyman's certificate.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Carpentry JATC Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 0990 by scoring a minimum of 75 on the arithmetic portion and 40-53 on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0920 or MATH 0950 or completing CPA 1470 (Math for the Trades) with a grade of C or higher before registering for the carpentry independent program.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
CPA 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (9 CREDITS)

Choose three credits from three of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CPA 1110	Carpentry-Computer Skills	5	F	CPA 1470 w/C or better or MATH 0990 placement and JATC approval
CPA 1120	Carpentry Concrete Forming	5	Sp	CPA 1110 w/C or better
CPA 1210	Carpentry Wood Framing	5	F	CPA 1120 w/C or better
CPA 1220	Carpentry Finish, Interior	5	Sp	CPA 1210 w/C or better
CPA 2310	Carpentry Interior Systems	5	F	CPA 1220 w/C or better
CPA 2320	Carpentry Welding	5	Sp	CPA 2310 w/C or better
CPA 2410	Carpentry Blueprint Reading	5	F	CPA 2320 w/C or better
CPA 2420	Carpentry Completion	5	Sp	CPA 2410 w/C or better

NOTE: CPA students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*			
SUMMER SEMESTER STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
CPA 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
CPA 1110	5	CPA 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
CPA 1210	5	CPA 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
HR	2-3		
DISTRIBUTION	3		
TOTAL	**5-6**		
FALL SEMESTER		**SPRING SEMESTER**	
CPA 2310	5	CPA 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
DISTRIBUTION	6		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
CPA 2410	5	CPA 2420	5
Total	**5**	**Total**	**5**

Advising Notes: Apprenticeship programs may require a math prerequisite. Classes are to be taken in the sequence in which they are given. A grade of C or better is required in all core courses for passing and receiving clock hours. Some programs may have stricter requirements. Students should check their individual programs for more information on prerequisites and entrance requirements.

Attendance is mandated by federal law and a student cannot pass a course if out of compliance. Failure to complete the necessary coursework or to register in a timely manner for each class will add one full year to the apprentice's program.

All Major CPA Course Requirements must be taken to complete the apprenticeship curriculum.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Carpentry JATC Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] CEMENT MASON INDEPENDENT TECHNOLOGY – CERTIFICATE OF PROFICIENCY[CTE]

20 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: This is a two year program requiring 4,000 hours of on-the-job training as well as 288 clock hours of related instruction.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work. Upon completion of this program and the completion of the 4,000 hours of on-the-job training, students should be considered Journeyman cement masons and will be able to continue employment in their field at this level. Or they may transfer to another craft with the possibility of advancing at an accelerate rate because of the base of knowledge and skills obtained throughout this program.

Program Entry Requirements: Apprenticeship students must be employed by a sponsoring contractor as a cement mason prior to beginning their studies in this program.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.

1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

REQUIRED COURSES: (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CMI 1110	Cement Mason Indep 1A	5	Sp	
CMI 1120	Cement Mason Indep 1B	5	Sp	CMI 1110 w/C grade or better
CMI 1210	Cement Mason Indep 2A	5	Sp	CMI 1120 w/C grade or better
CMI 1220	Cement Mason Indep 2B	5	Sp	CMI 1210 w/C grade or better

SAMPLE SCHEDULE

FIRST SPRING SEMESTER		**SECOND SPRING SEMESTER**	
CMI 1110	5	CMI 1210	5
CMI 1120	5	CMI 1220	5
Total	**10**	**Total**	**10**

Advising Notes: Apprenticeship programs may require a math prerequisite. Classes are to be taken in the sequence in which they are given. All major course requirements must be taken to complete the apprenticeship curriculum. A grade of C or better is required in all core courses for passing and receiving clock hours. Some programs may have stricter requirements. Students should check their individual programs for more information on prerequisites and entrance requirements. Attendance is mandated by federal law and a student cannot pass a course if out of compliance. Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

APPRENTICESHIP[CTE] CEMENT MASON JATC TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: The Cement Mason JATC Technology Curriculum is industry specific and is offered on as an as-needed basis. Please consult the semester class schedule for the courses being offered or contact the Apprenticeship Office for class availability.

Cement Masons build walls, arches, columns, floors and other structures using concrete. The work is typically outdoors and must meet rigid specifications. To sit for the journeyman exam, an apprentice must complete 432 minimum hours of related instruction and three years and 6,000 hours of on-the-job training (OJT). It is strongly encouraged that students be registered with the Bureau of Apprenticeship and Training, which is optional at the discretion of the employer. This curriculum has been articulated statewide.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Program Entry Requirements: There are no prerequisites to enter this program other than approval by the JATC.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged.

	6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Provide the required related instruction to prepare students for journeyman level work in the electrical industry and prepare students to sit for the state Journeyman Electrician license	1, 2, 3, 4, 5
2. Provide the necessary training for students to continue employment having the necessary workplace skills to attain success.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
APPR 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (18 CREDITS)

Choose three credits from each of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CMA 1110	Cement Mason 1A	5	F	APPR 1470 or appropriate Accuplacer score
CMA 1120	Cement Mason IB	5	Sp	CMA 1110 w/C grade or better
CMA 1210	Cement Mason IIA	5	F	CMA 1120 w/C grade or better
CMA 1210	Cement Mason IIB	5	Sp	CMA 1210 w/C grade or better
CMA 2310	Cement Mason IIIA	5	F	CMA 1220 w/C grade or better
CMA 2320	Cement Mason IIIB	5	Sp	CMA 2310 w/C grade or better

SAMPLE SCHEDULE*		
SUMMER SEMESTER STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:		
APPR 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)
TOTAL	**0-5**	

FALL SEMESTER		**SPRING SEMESTER**	
CMA 1110	5	CMA 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER			
ENGL 1010	3		
CM	3		
ID	3-4		
TOTAL	**9-10**		
FALL SEMESTER		**SPRING SEMESTER**	
CMA 1210	5	CMA 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER			
BS	3-4		
HR	2-3		
HU	3		
TOTAL	**8-10**		
FALL SEMESTER		**SPRING SEMESTER**	
CMA 2310	5	CMA 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER			
FA	3-4		
PS	3		
SS	3		
TOTAL	**9-10**		

Advising Notes: The classes listed are sequential and are to be taken in order. All major CMA course requirements must be taken to complete the apprenticeship curriculum. The courses are only offered once each year with odd number courses in the fall semester and even number courses in the spring semester. The math prerequisite does not fulfill any of the apprenticeship hours required. A student must pass each course with a C or higher to move onto the next level class. Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

Apprentices earn a certificate of achievement upon successful completion of all major CMA course requirements.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Additional Program Note: A Certificate in Cement Mason JATC Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] CONSTRUCTION CRAFT LABORER TECHNOLOGY – CERTIFICATE OF PROFICIENCY[CTE]

20 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: This is a two year program requiring 4,000 hours of on-the-job training as well as 288 clock hours of related instruction.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work. Upon completion of this program and the completion of the 4,000 hours of on-the-job training, students should be considered Journeyman cement masons and will be able to continue employment in their field at this level. Or they may transfer to another craft with the possibility of advancing at an accelerate rate because of the base of knowledge and skills obtained throughout this program.

Program Entry Requirements: Apprenticeship students must be employed by a sponsoring contractor prior to beginning their studies in this program.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.

1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

REQUIRED COURSES: (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CCLA 1110	Laborer 1A	5	Sp	
CCLA 1120	Laborer 1B	5	Sp	CCLA 1110 w/C grade or better
CCLA 1210	Laborer 2A	5	Sp	CCLA 1120 w/C grade or better
CCLA 1220	Laborer 2B	5	Sp	CCLA 1210 w/C grade or better

SAMPLE SCHEDULE

FIRST SPRING SEMESTER		**SECOND SPRING SEMESTER**	
CCLA 1110	5	CCLA 1210	5
CCLA 1120	5	CCLA 1220	5
Total	**10**	**Total**	**10**

Advising Notes: Apprenticeship programs may require a math prerequisite. Classes are to be taken in the sequence in which they are given. A grade of C or better is required in all core courses for passing and receiving clock hours. Some programs may have stricter requirements. Students should check their individual programs for more information on prerequisites and entrance requirements. Attendance is mandated by federal law and a student cannot pass a course if out of compliance.

Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

APPRENTICESHIP[CTE] DIESEL SYSTEMS TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: The DSTA program is designed for training Mechanics in both installation and service work. Apprentices in the DSTA program have the opportunity to learn techniques required to install new equipment as well as skills and knowledge to repair and troubleshoot existing equipment. The program is designed with related theory and hands-on application for maximum benefit for the student. This is a four-year program requiring 8,000 hours of on-the-job-training as well as 576 minimum hours of related instruction. Most sponsors of this program are also registering with the Bureau of Apprenticeship and Training for certification.

Note: The Diesel Systems Technology program is industry specific with classes being offered on an as-needed basis. Please consult the semester class schedule for the courses being offered or contact the Apprenticeship Office.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Diesel Systems Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 0990 by scoring a minimum of 75 on the arithmetic portion and 40-53 on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0920 or MATH 0950 or completing APPR 1470 (Math for the Trades) with a grade of C or higher before registering for the carpentry independent program.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
APPR 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (12 CREDITS)

Choose three credits from four of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (36 CREDITS)

COURSE		CR	SEM	PREREQUISITE
DSTA 1100	Safety and Basic Engines	2	F	APPR 1470 w/C or better or MATH 1010 placement
DSTA 1111	Safety & Basic Eng Lab	4	F	APPR 1470 w/C or better or MATH 1010 placement
DSTA 1120	Preventive Maintenance	2	Sp	DSTA 1100 w/C or better
DSTA 1121	Preventive Maint Lab	4	Sp	DSTA 1111 w/C or better
DSTA 1130	Heavy-Duty Drivetrains	2	F	DSTA 1120 w/C or better
DSTA 1131	H/Duty Drivetrains Lab	4	F	DSTA 1121 w/C or better
DSTA 1200	Adv Engine & Electronics	2	Sp	DSTA 1130 w/C or better
DSTA 1211	Advan Engine & Elec Lab	4	Sp	DSTA 1131 w/C or better
DSTA 1220	Heavy-Duty Hydraulics	2	F	DSTA 1200 w/C or better
DSTA 1221	H/Duty Hydraulics Lab	4	F	DSTA 1211 w/C or better
DSTA 1230	Heavy-Duty Electrical	2	Sp	DSTA 1220 w/C or better
DSTA 1231	Heavy-Duty Electrical Lab	4	Sp	DSTA 1221 w/C or better

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
DSTA 2000	Heavy Duty Co-op	2-4	A	Departmental approval

NOTE: DSTA students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*

SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
APPR 1470 (QS)	5	**(If CPT score not adequate; required for AAS degree)**	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
DSTA 1100	2	DSTA 1120	2
DSTA 1111	4	DSTA 1121	4
Total	**6**	**Total**	**6**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
DSTA 1130	2	DSTA 1200	2
DSTA 1131	4	DSTA 1211	4
Total	**6**	**Total**	**6**
SUMMER SEMESTER*			
HR	2-3		
DISTRIBUTION	6		
TOTAL	**8-9**		
FALL SEMESTER		**SPRING SEMESTER**	
DSTA 1220	2	DSTA 1230	2
DSTA 1221	4	DSTA 1231	4
Total	**6**	**Total**	**6**
SUMMER SEMESTER*			
DISTRIBUTION	6		
TOTAL	**6**		

Advising Notes: The math prerequisite does not fulfill any of the apprenticeship hours required. Classes are to be taken in the sequence in which they are given. A student must pass each class with a C or higher grade to move on to the next level. All major DSTA course requirements must be taken to complete the apprenticeship curriculum.

Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Diesel Systems Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] ELECTRICAL INDEPENDENT TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: Electricians are compulsory licensed craftsmen who plan, lie out and install, alter or repair electrical wiring, fixtures, apparatus and controls. To sit for the journeyman exam, an apprentice must complete 576 minimum hours of related instruction and four years and 8,000 hours of on-the-job training (OJT). Application with the State of Utah Department of Occupational and Professional Licensing must be made upon commencement of employment. It is strongly encouraged that students be registered with the Bureau of Apprenticeship and Training, which is optional at the discretion of the employer. This curriculum has been articulated statewide.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship. All electricians and plumbers must register with the Utah State Division of Occupational and Professional Licensing, (801) 530-6628.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Electrical Independent Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 1010 by scoring 54 or higher on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0990 or equivalent, or complete ELI 1470 (Math for the Trades) with a grade of C or higher.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Total Program/Course Fees: $10.00 per semester

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Provide the required related instruction to prepare students for journeyman level work in the electrical industry and prepare students to sit for the state Journeyman Electrician license	1, 2, 3, 4, 5
2. Provide the necessary training for students to continue employment having the necessary workplace skills to attain success.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
ELI 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (9 CREDITS)

Choose one course (three credits) from three of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ELI 1110	Electricity I	5	F	ELI 1470 w/C grade or better or MATH 1010 placement
ELI 1120	Electricity I	5	Sp	ELI 1110 w/C+ or better and pass ELI 1110 competency
ELI 1210	Electricity II	5	F	ELI 1120 w/C+ or better and pass ELI 1120 competency
ELI 1220	Electricity II	5	Sp	ELI 1210 w/C+ or better and pass ELI 1210 competency
ELI 2310	Electricity III	5	F	ELI 1220 w/C+ or better and pass ELI 1220 competency
ELI 2320	Electricity III	5	Sp	ELI 2310 w/C+ or better and pass ELI 2310 competency
ELI 2410	Electricity IV	5	F	ELI 2320 w/C+ or better and pass ELI 2320 competency
ELI 2420	Electricity IV	5	Sp	ELI 2410 w/C+ or better and pass ELI 2410 competency

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
ELI 2000	Electrical CO-OP	3-6	A	Instructor approval
ELI 2990	Electrical Special Studies	5	A	

ELI 2991 Electrical Special Stu II 5 A

NOTE: ELI students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE

SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
ELI 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
ELI 1110	5	ELI 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
Total	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
ELI 1210	5	ELI 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
HR	2-3		
DISTRIBUTION	3		
TOTAL	**5-6**		
FALL SEMESTER		**SPRING SEMESTER**	
ELI 2310	5	ELI 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
DISTRIBUTION	6		
Total	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
ELI 2410	5	ELI 2420	5
Total	**5**	**Total**	**5**

Advising Notes: The classes listed are sequential and are to be taken in order. All major ELI course requirements must be taken to complete the apprenticeship curriculum. The courses are only offered once each year with odd number courses in the fall semester and even number courses in the spring semester. The math prerequisite does not fulfill any of the apprenticeship hours required. A student must pass each course with a C+ or higher and pass a competency test to move onto the next level class. Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses. Students seeking the AAS degree must apply and successfully pass their Journeyman's exam. Once a student has received their Journeyman's license they must also submit

a copy to the Graduation Office with the Graduation Application. The Electrical Independent Technology courses are also available online.

Additional Program Note: A Certificate in Electrical Independent Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] FACILITIES MAINTENANCE TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: The Facilities Maintenance Technology program provides students with a solid foundation in the basic fundamentals of Electricity, Industrial Motor Control, HVAC principles, Plumbing, Construction Maintenance, Pipefitting, and Welding. This is a three year program requiring 6,000 hours of on-the-job training as well as 432 clock hours of related instruction.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship. All electricians and plumbers must register with the Utah State Division of Occupational and Professional Licensing, (801) 530-6628.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Facilities Maintenance Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 1010 by scoring 54 or higher on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0990 or equivalent, or complete FMTA 1470 (Math for the Trades) with a grade of C or higher.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively.

	5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
FMTA 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (18 CREDITS)

Choose three credits from each of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FMTA 1110	Maintenance Electricity I	5	F	FMTA 1470 w/C or better or MATH 1010 placement
FMTA 1120	Maintenance Electricity II	5	Sp	FMTA 1110 w/C or better
FMTA 1210	Maintenance HVAC	5	F	FMTA 1120 w/C or better
FMTA 1220	Maintenance Plumbing	5	Sp	FMTA 1210 w/C or better
FMTA 2310	Mntnc Constr/Mechanic	5	F	FMTA 1220 w/C or better
FMTA 2320	Mntnc Pipefitting	5	Sp	FMTA 2310 w/C or better

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
FMTA 2410	Mntnc Weld/Trowel Trades	5	A	departmental approval

NOTE: FMTA students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*			
SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
FMTA 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
		SPRING SEMESTER	
FALL SEMESTER			
FMTA 1110	5	FMTA 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
ID	3-4		
TOTAL	**9-10**		
FALL SEMESTER		**SPRING SEMESTER**	
FMTA 1210	5	FMTA 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
BS	3-4		
HR	2-3		
HU	3		
TOTAL	**8-10**		
FALL SEMESTER		**SPRING SEMESTER**	
FMTA 2310	5	FMTA 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
FA	3-4		
PS	3		
SS	3		
TOTAL	**9-10**		

Advising Notes: The classes listed are sequential and are to be taken in order. The courses are only offered once each year with odd number courses in the fall semester and even numbered courses in the spring semester. The math prerequisite does not fulfill any of the apprenticeship hours required. A student must pass each class with a C or higher grade to move on to the next level. All major FMTA course requirements must be taken to complete the apprenticeship core curriculum.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Facilities Maintenance Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] HEATING, COOLING & REFRIGERATION (HVAC) TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: The HVAC program is designed for training in both installation and service work. Apprentices in the HVAC program have the opportunity to learn techniques required to install new equipment as well as skills and knowledge to repair and troubleshoot existing equipment. The program is designed with related theory and hands-on application for maximum benefit for the student. This is a four-year program requiring 8,000 hours of on-the-job-training as well as 576 minimum hours of related instruction. Most sponsors of this program are also registering with the Bureau of Apprenticeship and Training for certification.

Certifications that students will be eligible to test for upon completion of the program include: Environmental Protection Agency (EPA), Rocky Mountain Gas Association (RMGA), Corrugated Stainless Steel Tubing (CSST), Hydronics, and ICE. Students will be eligible to sit for North American Technical Excellence (NATE) and other national HVAC certification exams.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Heating, Cooling and Refrigeration Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 1010 by scoring a minimum of 54 on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0990, or must enroll in HVAC 1470 math course prior to enrollment in HVAC core courses.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
HVAC 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (9 CREDITS)

Choose three credits from three of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
HVAC 1110	HVAC IA	5	F	HVAC 1470 w/C or better or MATH 1010 placement
HVAC 1120	HVAC IB	5	Sp	HVAC 1110 w/C or better
HVAC 1210	HVAC IIA	5	F	HVAC 1120 w/C or better
HVAC 1220	HVAC IIB	5	Sp	HVAC 1210 w/C or better
HVAC 2310	HVAC IIIA	5	F	HVAC 1220 w/C or better
HVAC 2320	HVAC IIIB	5	Sp	HVAC 2310 w/C or better
HVAC 2410	HVAC IVA	5	F	HVAC 2320 w/C or better
HVAC 2420	HVAC IVB	5	Sp	HVAC 2410 w/C or better

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
HVAC 2000	Heat, Vent Air Specialties	5	A	Departmental approval

NOTE: HVAC students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*			
SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
HVAC 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
HVAC 1110	5	HVAC 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
HVAC 1210	5	HVAC 1220	5
TOTAL	**5**	**TOTAL**	**5**
SUMMER SEMESTER*			
HR	2-3		
DISTRIBUTION	3		
TOTAL	**5-6**		
FALL SEMESTER		**SPRING SEMESTER**	
HVAC 2310	5	HVAC 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
DISTRIBUTION	6		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
HVAC 2410	5	HVAC 2420	5
Total	**5**	**Total**	**5**

Advising Notes: The classes listed are sequential and are to be taken in order. The courses are only offered once each year with odd number courses in the fall semester and even numbered courses in the spring semester. The math prerequisite does not fulfill any of the apprenticeship hours required. A student must pass each class with a C or higher grade to move on to the next level. All major HVAC course requirements must be taken to complete the apprenticeship core curriculum.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Heating, Cooling and Refrigeration (HVAC) is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] HEAVY CIVIL CARPENTER TECHNOLOGY – CERTIFICATE OF PROFICIENCY[CTE]

20 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: This is a two year program requiring 4,000 hours of on-the-job training as well as 288 clock hours of related instruction.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work. Upon completion of this program and the completion of the 4,000 hours of on-the-job training, students should be considered Journeyman cement masons and will be able to continue employment in their field at this level. Or they may transfer to another craft with the possibility of advancing at an accelerate rate because of the base of knowledge and skills obtained throughout this program.

Program Entry Requirements: Apprenticeship students must be employed by a sponsoring contractor prior to beginning their studies in this program.

For information on getting started, please visit http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.

1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

REQUIRED COURSES: (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
HCCA 1110	Heavy Civil Carpenter 1A	5	Sp	
HCCA 1120	Heavy Civil Carpenter 1B	5	Sp	HCCA 1110 w/C grade or better
HCCA 1210	Heavy Civil Carpenter 2A	5	Sp	HCCA 1120 w/C grade or better
HCCA 1220	Heavy Civil Carpenter 2B	5	Sp	HCCA 1210 w/C grade or better

SAMPLE SCHEDULE

FIRST SPRING SEMESTER		SECOND SPRING SEMESTER	
HCCA 1110	5	HCCA 1210	5
HCCA 1120	5	HCCA 1220	5
Total	**10**	**Total**	**10**

Advising Notes: Apprenticeship programs may require a math prerequisite. Classes are to be taken in the sequence in which they are given. Apprentices earn a Certificate of Proficiency upon successful completion of all major HCCA course requirements. A grade of C or better is required in all core courses for passing and receiving clock hours. Some programs may have stricter requirements. Students should check their individual programs for more information on prerequisites and entrance requirements. Attendance is mandated by federal law and a student cannot pass a course if out of compliance. Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

APPRENTICESHIP[CTE] IRONWORKERS JATC TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: Ironworkers erect structural steel, work with ornamental iron, reinforcing steel, rigging and machinery moving. Work is very physical, strenuous and precise. The JATC Ironworker is registered with the Bureau of Apprenticeship and Training for additional registration and certification. The program is directed by the National Ironworker JATC and approved by the local sponsors.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Ironworkers JATC Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All incoming apprentices must gain approval from the local JATC before registering for classes.

Once apprentices are approved by the local JATC, they may complete the getting started steps outlined here: http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged.

	6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
APPR 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (18 CREDITS)

Choose three credits from each of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ISA 1110	Ironworker IA	5	F	JATC approval
ISA 1120	Ironworker IB	5	Sp	ISA 1110
ISA 1210	Ironworker IIA	5	F	ISA 1120
ISA 1220	Ironworker IIB	5	Sp	ISA 1210
ISA 2310	Ironworker IIIA	5	F	ISA 1220
ISA 2320	Ironworker IIIB	5	Sp	ISA 2310

NOTE: ISA students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*			
SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
APPR 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
ISA 1110	5	ISA 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
ID	3-4		
TOTAL	**9-10**		
FALL SEMESTER		**SPRING SEMESTER**	
ISA 1210	5	ISA 1220	5
Total	**5**	**Total**	5
SUMMER SEMESTER*			
BS	3-4		
HR	2-3		
HU	3		
TOTAL	**8-10**		
FALL SEMESTER		**SPRING SEMESTER**	
ISA 2310	5	ISA 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
FA	3-4		
PS	3		
SS	3		
TOTAL	**9-10**		

Advising Notes: The classes are held fall and spring semesters and more often when requested by the JATC. Check with the ironworker training director for class availability. All major ISA course requirements must be taken to complete the apprenticeship curriculum.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Ironworkers JATC Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] LANDSCAPE TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS)

63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: The Landscape Technology program provides four years of related and supplemental training for apprentices. The courses offered cover a wide variety of materials and curricula to meet the day-to-day needs of a journeyman. This includes plumbing and pipefitting, basic electrical and low voltage, plant selection and watering, and knowledge of pesticides and control methods. The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Landscape Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 0990 by scoring a minimum of 75 on the arithmetic portion and 40-53 on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0920 or MATH 0950 or completing APPR 1470 (Math for the Trades) with a grade of C or higher before registering for the Landscape program.

For information about getting started, please visit: http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged.

	6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
APPR 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (9 CREDITS)

Choose three credits from three of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
LAND 1110	Plumb/Pipefitting Applica	5	F	APPR 1470 w/C or better or MATH 0990 placement
LAND 1120	Ldscp Water Conserv/Elect	5	Sp	LAND 1110 w/C or better
LAND 1210	Small Engine Repair/Mntce	5	F	LAND 1120 w/C or better
LAND 1220	Pest Mgmt/Sstnbl Lndscp	5	Sp	LAND 1210 w/C or better
LAND 2310	Fund/Soil Sci & Hort Sci	5	F	LAND 1220 w/C or better
LAND 2320	Woody Plnt Mat/Turf Mgt	5	Sp	LAND 2310 w/C or better
LAND 2410	Arbor Culture	5	F	LAND 2320 w/C or better
LAND 2420	Annl/Perenn Plant Maint	5	Sp	LAND 2410 w/C or better

NOTE: LAND students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*			
SUMMER SEMESTER			
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:			
APPR 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)	
TOTAL	**0-5**		
FALL SEMESTER		**SPRING SEMESTER**	
LAND 1110	5	LAND 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
TOTAL	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
LAND 1210	5	LAND 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
HR	2-3		
DISTRIBUTION	3		
TOTAL	**5-6**		
FALL SEMESTER		**SPRING SEMESTER**	
LAND 2310	5	LAND 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
DISTRIBUTION	6		
TOTAL	6		
FALL SEMESTER		**SPRING SEMESTER**	
LAND 2410	5	LAND 2420	5
Total	**5**	**Total**	**5**

Advising Notes: The classes are to be taken in the sequence in which they are given. A student must complete each class with a C or higher grade to move into the next level class. All major LAND course requirements must be taken to complete the apprenticeship curriculum.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Landscape Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] PLUMBER INDEPENDENT TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: A plumber is a compulsory licensed craftsman who performs any mechanical work in the installation, maintenance, repair, removal and replacement of water supply and water/liquid waste removal. Plumbers do both interior and exterior work in greatly varying job conditions. To sit for the journeyman exam, an apprentice must complete 576 minimum hours of related instruction and four years and 8,000 hours of on-the-job training. Application with the State of Utah Department of Occupational and Professional Licensing must be made upon employment. Suggested registration with the Bureau of Apprenticeship and Training is strongly encouraged, but is optional at the discretion of the employer. This curriculum is articulated statewide through all instructional institutions.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship. All plumbers must register with the Utah State Division of Occupational and Professional Licensing, (801) 530-6628.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Plumber Independent Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree. Contact the University Center for current information at www.slcc.edu/universitycenter/programs or call (801) 957-4824.

Program Entry Requirements: All entering students must demonstrate competence for placement into MATH 0990 by scoring a minimum of 75 on the arithmetic portion and 40-53 on the algebra portion of the mathematics College Placement Test, or provide a transcript showing a grade of C or higher in MATH 0920 or MATH 0950 or completing APPR 1470 (Math for the Trades) with a grade of C or higher before registering for the Plumbing program.

For information about getting started, please visit: http://www.slcc.edu/gettingstarted/index.asp

Total Program/Course Fees: $14.00 per semester

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuitionfees.asp

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
PLI 1470	Math for the Trades (QS)	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (9 CREDITS)

Choose three credits from three of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PLI 1110	Plumbing IA	5	F	PLI 1470 w/C or better or MATH 0990 placement
PLI 1120	Plumbing IB	5	Sp	PLI 1110 w/C or better and pass competency test
PLI 1210	Plumbing IIA	5	F	PLI 1120 w/C or better and pass competency test
PLI 1220	Plumbing IIB	5	Sp	PLI 1210 w/C or better and pass competency test
PLI 2310	Plumbing IIIA	5	F	PLI 1220 w/C or better and pass competency test
PLI 2320	Plumbing IIIB	5	Sp	PLI 2310 w/C or better and pass competency test
PLI 2410	Plumbing IVA	5	F	PLI 2320 w/C or better and pass competency test
PLI 2420	Plumbing IVB	5	Sp	PLI 2410 w/C or better and pass competency test

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
PLI 2000	Plumbing CO-OP	3-5	A	Departmental approval
PLI 2990	Plumbing Special Project	5	A	Departmental approval
PLI 2991	Plumbing Special Proj II	5	A	Departmental approval

NOTE: PLI students may still be short credit hours after having completed the major course requirements and general education requirements. If so, additional credit hours from one of the distribution areas will be necessary to meet the 63 credit hour minimum for the AAS degree.

SAMPLE SCHEDULE*

SUMMER SEMESTER
STUDENTS SHOULD COMPLETE THE FOLLOWING COURSE TO BEGIN THE PROGRAM IN THE FALL:

PLI 1470 (QS)	5	(If CPT score not adequate; required for AAS degree)
TOTAL	**0-5**	

FALL SEMESTER		**SPRING SEMESTER**	
PLI 1110	5	PLI 1120	5
Total	**5**	**Total**	**5**

SUMMER SEMESTER*	
ENGL 1010	3
CM	3
TOTAL	**6**

FALL SEMESTER		**SPRING SEMESTER**	
PLI 1210	5	PLI 1220	5
Total	**5**	**Total**	**5**

SUMMER SEMESTER*	
HR	2-3
DISTRIBUTION	3
TOTAL	**5-6**

FALL SEMESTER		**SPRING SEMESTER**	
PLI 2310	5	PLI 2320	5
Total	**5**	**Total**	**5**

SUMMER SEMESTER*	
DISTRIBUTION	6
TOTAL	6

FALL SEMESTER		**SPRING SEMESTER**	
PLI 2410	5	PLI 2420	5
Total	**5**	**Total**	**5**

Advising Notes: The classes are to be taken in the sequence in which they are given. A student must complete each class and a comprehensive competency exam with a C or higher grade to move on to the next level class. Each course will be offered once per year with odd number courses in the fall semester and even numbered courses in the spring semester. Those requiring a math class prior to entering the program should check the schedule to see if an offset class will be offered for first year students only. Failure to complete the necessary course work or to register in a timely manner for each class will add one full year to the apprentice's program.

All major PLI course requirements must be taken to complete the apprenticeship portion of the curriculum. The Plumbing Independent Technology courses are also available online.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the Apprenticeship program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of the Apprenticeship core courses.

It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses. Students seeking the AAS degree must apply and successfully pass their Journeyman's exam. Once a student has received their Journeyman's license they must also submit a copy to the Graduation Office with the Graduation Application. The Plumbing Independent Technology courses are also available online.

Additional Program Note: A Certificate in Plumbing Independent Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] PLUMBER/PIPEFITTER JATC TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: Plumber/Pipefitters fabricate, remodel and repair all classes of piping systems. This program is registered with the Bureau of Apprenticeship and Training, and Apprentice registration is strongly encouraged. The national JATC curriculum has been adopted by the local sponsors and adherence to this and all other registering and licensing bodies must be strictly followed. An apprentice must have the approval of the JATC before registering for classes.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship. All plumbers must register with the Utah State Division of Occupational and Professional Licensing, (801) 530-6628.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Plumber/Pipefitter JATC Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All incoming apprentices must make application with and be approved by the JATC prior to registration for class.

Once apprentices are approved by the JATC, they may complete the getting started steps outlined here: http://www.slcc.edu/students-future/admissions/index.aspx

Total Program/Course Fees: $10.00 per class

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies.

	4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE	CR	SEM	PREREQUISITE
QS component is satisfied through program required coursework.			

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (6 CREDITS)

Choose three credits from two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (45 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PFA 1110	Trade Related Math	2		
PFA 1111	Soldering and Brazing	2		
PFA 1140	Principles of Technology	2		
PFA 1150	Job Safety and Heritage	2		
PFA 1160	Use & Care Pipe Fittings	2		
PFA 1170	Plumbing Science & Mechanics	2		
PFA 1210	Gas Installations	2		
PFA 1211	Hydronic Heating & Cooling Systems	2		
PFA 1250	Basic Electricity	2		
PFA 1260	Drafting and Plan Reading	2		
PFA 2151	Welding I	2		
PFA 2152	Welding II	2		
PFA 2153	Welding III	2		
PFA 2154	Welding IV	2		
PFA 2155	Welding V	2		

PFA 2156	Welding VI	2
PFA 2157	Welding VII	2
PFA 2158	Welding VIII	2
PFA 2159	Welding IX	2
PFA 2160	Welding X	2
PFA 2161	Pipe Bending	2
PFA 2162	Orbital Welding	2
PFA 2311	Pumps and Steam Systems	2
PFA 2331	Brazing and Compressor Overhaul	2
PFA 2350	Drainage	2
PFA 2351	Drainage II	2
PFA 2360	Water Supply	2
PFA 2361	Water Supply II	2
PFA 2441	Advanced Plan Reading	2
PFA 2450	Builders Level & Spec Inst	2
PFA 2460	Hydronics Systems	2
PFA 2470	Plumbing Fixtures and Appliances	2
PFA 2541	Medical Gas Certification	2
PFA 2550	Back Flow Testing Cert	2
PFA 2551	General Pipe Fitting	2
PFA 2552	General Pipe Fitting II	2
PFA 2560	International Plumbing Code	2
PFA 2570	Test Prep – Code	2
PFA 2571	Test Prep – Math	2
PFA 2572	Test Prep – Shop	2
PFA 2573	Pipe Fitting Test Prep	2

SAMPLE SCHEDULE

Contact the JATC for the most current PFA course schedule

FALL SEMESTER		**SPRING SEMESTER**	
PFA 1150	2	PFA 1110	2
PFA 1160	2	PFA 1111	2
Total	**4**	**Total**	**4**

FALL SEMESTER		**SRING SEMESTER**	
PFA 1250	2	PFA 1210	2
PFA 1260	2	PFA 1211	2
Total	**4**	**Total**	**4**

FALL SEMESTER		**SPRING SEMESTER**	
PFA 2350	2	PFA 2351	2
PFA 2360	3	PFA 2361	2
PFA 1170	2	PFA 2153	2
Total	**6**	**Total**	**6**

FALL SEMESTER		**SPRING SEMESTER**	
PFA 2450	2	PFA 2441	2
PFA 2470	2	PFA 2560	2
PFA 2541	2		
Total	**6**	**Total**	**4**

FALL SEMESTER		**SPRING SEMESTER**	
PFA 2161	2	PFA 2570	2
PFA 2162	2	PFA 2571	2

PFA 2551	2	PFA 2572	2
Total	**6**	**Total**	**6**
FALL SEMESTER		**SPRING SEMESTER**	
CM	3	HR	2-3
ENGL 1010	3	DISTRIBUTION (2)	6
Total	**6**	**Total**	**8-9**

Advising Notes: The classes are to be taken in the sequence in which they are given. A student must complete each class with a C or higher grade to move into the next level class. The JATC will schedule the PFA courses. For more information on when the PFA courses will be taught, please contact the JATC. It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Plumber/Pipefitter JATC Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] REFRIGERATION JATC TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: Refrigeration fitters through the JATC Committee program do contract and custom installation, maintenance and services and repair of refrigeration and refrigerated and/or air conditioning units and systems. Work may include new construction and remodeling and repair of existing building units. A journeyman may specialize in either installation or as a service technician. The position requires extreme precision, good manual and finger dexterity, independent judgment, and considerable strength and agility. This program is registered with the Bureau of Apprenticeship and Training. The national JATC curriculum has been adopted by the local sponsors and adherence to this and all other registering and licensing bodies must be strictly followed. An apprentice must have the approval of the JATC before registering for classes.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship. All electricians and plumbers must register with the Utah State Division of Occupational and Professional Licensing, (801) 530-6628.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Apprenticeship Refrigeration JATC Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All incoming apprentices must make application with and be approved by the JATC prior to registration for class.

Once apprentices are approved by the JATC, they may complete the getting started steps outlined here: http://www.slcc.edu/students-future/admissions/index.aspx

Total Program/Course Fees: $10.00 per class

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged. 6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of carpentry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE	CR	SEM	PREREQUISITE

QS requirement is satisfied through program required coursework.

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

Any approved CM course

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE

Any approved HR course

DISTRIBUTION AREAS: (6 CREDITS)

Choose three credits from two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (45 CREDITS)

COURSE		CR	SEM	PREREQUISITE
RFA 1250	Refrigeration Basic Elec	2		
RFA 2300	Electrical Controls	2		
RFA 2310	Steam Systems	2		
RFA 2350	Refrigeration I	2		
RFA 2400	Air Conditioning I	2		
RFA 2410	Troubleshooting	2		
RFA 2450	Chillers	2		
RFA 2500	Shop Projects	2		
RFA 2510	Evaporators, Compressors, Condensers	2		
RFA 2520	Refrigerant Controls	2		
RFA 2530	Start, Test and Balance I	2		
RFA 2540	Start, Test and Balance II	2		
RFA 2560	Instrumentation, Process	2		

	Cntrl	
RFA 2570	Pneumatic Controls	2
RFA 2580	Air Conditioning II	2
RFA 2590	Refrigeration II	2
RFA 2600	Advanced Electricity & Electronics	2
RFA 2610	Test Prep-Refrigeration	2

SAMPLE SCHEDULE

Contact the JATC for the most current RFA/PFA course schedule

FALL SEMESTER		**SPRING SEMESTER**	
PFA 1150	2	PFA 1110	2
PFA 1250	2	RFA 2590	2
RFA 2350	2	RFA 2600	2
TOTAL	**6**	**TOTAL**	**6**

FALL SEMESTER		**SPRING SEMESTER**	
PFA 1260	2	PFA 1111	2
RFA 2400	2	RFA 2580	2
TOTAL	**4**	**TOTAL**	**4**

FALL SEMESTER		**SPRING SEMESTER**	
RFA 2450	2	RFA 2410	2
RFA 2570	2	RFA 2510	2
TOTAL	**4**	**TOTAL**	**4**

FALL SEMESTER		**SPRING SEMESTER**	
PFA 1170	2	PFA 1211	2
PFA 2311	2	PFA 2441	2
RFA 2300	2	RFA 2520	2
TOTAL	**6**	**TOTAL**	**6**

FALL SEMESTER		**SPRING SEMESTER**	
PFA 2158	2	PFA 1210	2
PFA 2161	2	PFA 2571	2
RFA 2530	2	RFA 2540	2
TOTAL	**6**	**TOTAL**	**6**

FALL SEMESTER		**SPRING SEMESTER**	
CM	3	HR	2-3
ENGL 1010	3	DISTRIBUTION	6
TOTAL	**6**	**TOTAL**	**8-9**

Advising Notes: The classes are to be taken in the sequence in which they are given. A student must complete each class with a C or higher grade to move on to the next level. The JATC will schedule the RFA and PFA courses. For more information on when the RFA and PFA courses will be taught, please contact the JATC. It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters or the year following completion of all the Apprenticeship core courses.

Additional Program Note: A Certificate in Refrigeration JATC Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] STAGEHAND JATC TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty: Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: The stagehand program trains apprentices in the art of constructing, setting up and moving of props and stage accessories. The work also includes all sound systems, lighting systems and overall facilities for any stage or movie production. This is a three-year program requiring 6,000 hours of on-the-job training and a minimum of 432 hours of related and supplemental instruction. The program follows a national curriculum which has been approved and registered with the Bureau of Apprenticeship and Training and adopted by local sponsors.

The College provides classroom-related and supplemental instruction for apprenticeship programs. Classes are held in the days, evenings, and Saturdays, depending on the program. The College neither provides on-the-job training nor acts as a sponsor for apprentices. Individuals must locate their own sponsors. For individual industry-sponsored programs, students should contact their employers' training director or the Apprenticeship Office.

The Department of Labor Office of Apprenticeship is the federal registering agency for all Utah programs. For National credentials, students and sponsors need to be registered with the Federal Office of Apprenticeship, 125 South State Street, Suite 2412, Salt Lake City, UT 84138. Sponsors are encouraged to be registered with the Office of Apprenticeship.

Career Opportunities: Apprenticeship students are expected to be employed while participating in related training course work.

Transfer/Articulation Information: Students who earn an AAS degree in Stagehand JATC Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: All incoming apprentices must make application with and be approved by the JATC prior to registration for class.

Once apprentices are approved by the JATC, they may complete the getting started steps outlined here: http://www.slcc.edu/students-future/admissions/index.aspx

Estimated Cost for Students: Tuition per semester: http://www.slcc.edu/cashiering/tuition-and-fees.aspx

Note: Apprenticeship programs are **not** eligible for financial aid.

Estimated Time to Completion: Apprenticeship programs are composed of two parts: (1) on-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft; (2) classroom-related instruction is designed to provide the apprentice with knowledge of theoretical and technical aspects of their craft. Total completion of an apprenticeship program will take up to five years, depending upon the craft.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge. 2 – Communicate Effectively. 3 – Develop quantitative literacies. 4 – Think critically and creatively. 5 – Develop knowledge and skills to be civically engaged.

	6 – Develop the knowledge and skills to work with others in a professional and constructive manner. 7 – Develop computer and information literacy.
1. Students will achieve entry-level proficiency in all areas of the stagehand industry as well as advanced training as work experience is added.	1, 2, 3, 4, 5
2. Students will be prepared to continue in the workforce having the necessary workplace skills.	2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
APPR 1470	Math for Trades	5	A	

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (18 CREDITS)

Choose three credits from each of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
SHA 1110	Stagehand IA	5		JATC approval
SHA 1120	Stagehand IB	5		SHA 1110 w/C grade or better
SHA 1210	Stagehand IIA	5		SHA 1120 w/C grade or better
SHA 1220	Stagehand IIB	5		SHA 1210 w/C grade or better
SHA 2310	Stagehand IIIA	5		SHA 1220 w/C grade or better
SHA 2320	Stagehand IIIB	5		SHA 2310 w/C grade or better

ELECTIVE COURSES

COURSE		CR	SEM	PREREQUISITE
SHA 2000	Stagehand CO-OP	2-4	A	Department approval

SAMPLE SCHEDULE*		
Students should complete the following course to begin the program in the Fall:		
APPR 1470	5	
FALL SEMESTER	**SPRING SEMESTER**	

SHA 1110	5	SHA 1120	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
ENGL 1010	3		
CM	3		
ID	3-4		
Total	**9-10**		
FALL SEMESTER		**SPRING SEMESTER**	
SHA 1210	5	SHA 1220	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
BS	3-4		
HR	2-3		
HU	3		
Total	**8-10**		
FALL SEMESTER		**SPRING SEMESTER**	
SHA 2310	5	SHA 2320	5
Total	**5**	**Total**	**5**
SUMMER SEMESTER*			
FA	3-4		
PS	3		
SS	3		
Total	**9-10**		

Advising Notes: All major SHA course requirements must be taken to complete the apprenticeship core curriculum. Classes are to be taken in the sequence in which they are given. Students must complete each class with a C or higher grade to move on to the next level class. The JATC will schedule the SHA courses. For more information on when the SHA courses will be taught, please contact the JATC.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

*It is recommended to those students seeking the AAS degree to complete the general education requirements in the summer semesters.

Additional Program Note: A Certificate in Stagehand JATC Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

APPRENTICESHIP[CTE] WELDING TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Apprenticeship Division
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/apprenticeship
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Generally, Apprenticeship faculty members are chosen from journeymen who are working in the field with a minimum of six years' experience. All instructors are hired as adjunct on a semester-by-semester basis.

Program Description: The Welding Technology curriculum is offered on as an as-needed basis. Please consult the semester class schedule for the courses being offered or contact the Apprenticeship Office for class availability.

Additional Program Note: A Certificate in Welding Technology is also available. For more information about this certificate, contact the Apprenticeship Office, Taylorsville Redwood Campus, CT 274, (801) 957-4066.

ARCHITECTURE – ASSOCIATE OF SCIENCE[CTE] (AS) — 60 credits minimum

Visual Art & Design Division
Taylorsville Redwood Campus, TB 416B
General Information, (801) 957-4827
Program Information, (801) 957-3932
www.slcc.edu/arch
Academic Advisor, Cindy Clark, SC W138, (801) 957-3361

Faculty:
Professor – Jeff Plant
Associate Professors – Norman Clark, Kevin King

Program Description: The Architectural Technology Department offers a program completing the requirements for two-year Associate of Science (AS) degrees for students who plan to transfer to another institution for a higher degree.

The major aspects of architectural design and practice are presented to students in a balanced approach that allows them to gain a general understanding of the profession and practice as well as to acquire marketable skills in design, architectural practice, construction documentation, CAD/BIM and computer graphics.

This program introduces students to basic concepts in architectural design and delineation. Beginning skills in design are acquired as students learn to generate creative solutions to various design problems. Skills are developed in the area of delineation with courses presenting concepts of freehand sketching, perspectives, digital image manipulation and other methods of design idea representation.

The program emphasizes the real world application of all concepts, principles and techniques. Instruction is enhanced by exposing the students to real world materials and techniques through instructor experience and knowledge as well as visits from and exposure to architectural design professionals.

Life skills also are stressed to enhance students' architectural skills. These include communication, time management, graphics, creative problem solving, group dynamics, responsibility and professionalism. Students are qualified for a variety of job and educational opportunities upon completion of the program.

Career Opportunities: This program also provides excellent entry-level skills, which when built upon, will enable students to advance to lower- or middle-management positions, depending on the individual person. However, at the highest end of the profession, architecture requires advanced education and licensing. One usually cannot advance to upper-level management, partnership, or ownership positions without a Bachelor or Master of Architecture degree (BArch or MArch).

Transfer/Articulation Information: The AS degree is designed to transfer to four-year institutions in the Utah System of Higher Education. This program has been specifically designed to be an integral part of the master's degree in architecture and is transferable to the University of Utah. Students who plan to transfer to the University of Utah should make contact with the architecture department early in their study. Students entering SLCC or the U of U have the opportunity to complete the same program in the same number of years.

To help students with additional professional education, the Architectural Technology program has transfer options to the College of Architecture + Planning at the University of Utah. There is a direct transfer articulation to the undergraduate Architecture program where 2 years at SLCC are equivalent to 2 years at the University of Utah and an indirect articulation to the City and Metropolitan undergraduate program.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Cost for Students: $600- $800 per year for books and supplies

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Be prepared for transfer to University of Utah Graduate School of Architecture program.	1
2. Demonstrate knowledge of residential and commercial construction processes, methods and materials.	1
3. Demonstrate competency in CAD/BIM drafting	1
4. Demonstrate knowledge of local and national building codes level appropriate for a second year student.	1
5. Will take current (up-to-date) courses that will help them be prepared to apply for employment in the field.	1
6. Demonstrate architectural conceptual design skills.	1, 2
7. Acquire substantive knowledge in architectural design sufficient for further study in 6-year institutions.	1, 3
8. Effectively communicate. Develop critical reading, writing, speaking, and listening skills. Organize and present ideas and information orally and in writing. Understand and use the elements of effective communication in group settings.	2
9. Communicate effectively in the architectural profession.	2
10. Communicate effectively while working in groups and teams in the classroom.	2
11. Demonstrate proficiency in inspecting construction projects to insure compliance with plans, specifications, building codes and quality assurance standards.	4
12. Demonstrate competence in architectural contracting practices.	4
13. Engage in service-learning for community building and an enhanced academic experience.	5
14. Demonstrate the knowledge base of how architectural design, building codes, and zoning ordinance affect the local communities.	5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I (QL)	4	A	Within the last year MATH 1060 or 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:
Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

NOTE: The Physical Science (PS) general education component is satisfied through pre-major coursework.

REQUIRED COURSES: (17 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 1010	Intro to Des Pro	3	F	
ARCH 1130	Basic Drawing	3	F	
ARCH 1510	Arch Design Wkshp	3	Sp	
PHYS 2010	College Physics I	4	A	MATH 1060 or MATH 1080.
PHYS 2020	College Physics II	4	A	PHYS 2010. Note that the Physics labs are not required by the University of Utah if you are looking to transfer there.

ELECTIVE COURSES: (11 CREDITS)

The following courses are approved departmental electives. Student must select a minimum of 11 credits from the following list. It is the student' responsibility to examine each course description for details of prerequisite courses. Students should review courses to determine the best fit for their future transfer institution and review with faculty from the Architectural Department.

COURSE		CR	SEM	PREREQUISITE
ARCH 1210	Residential Con	5	Sp	ARCH 1310
ARCH 1310	Intro AutoCAD	3	F, Sp	
ARCH 1350	Comp Graphics	3	F	
ARCH 2150	Arch Graphics	3	Sp	ARCH 1130
ARCH 2310	Mdlng/Rndng/AnmI	3	F	
ARCH 2320	Mdlng/Rndng/AnmII	3	Sp	ARCH 2310
ARCH 2350	Adv Arch CAD	3	Sp	
ARCH 2510	Arch CAD II	5	F	ARCH 1210 and 1310
ARCH 2520	Arch CAD III	5	Sp	ARCH 2210 and 2510

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ARCH 1010	3	ARCH ELEC	8
ARCH 1130	3	ENGL 2010/2100	3
ARCH ELEC	3	DISTRIBUTION	3
ENGL 1010	3	LW	1
DISTRIBUTION	3		
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
PHYS 2010	4	ARCH 1510	3
STUDENT CHOICE	3	PHYS 2020	4
AI	3	MATH 1210	4
DISTRIBUTION (2)	6	DISTRIBUTION	3
Total	**16**	**Total**	**14**

Advising Notes It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

As the Graduate School of Architecture makes changes to their program, SLCC will update its. It is important for students to see the Department Coordinator for transfer information.

Students who need to take preparatory classes to meet the requirements of first semester courses should plan extra time to complete a degree. A high school curriculum heavily weighted in mathematics, science, and communication skills is highly recommended. Placement testing will be done upon entry to the College unless the student has prior college-level credit. The semester in which the courses are taught are listed above. Please note that because of the nature of the program, classes are sequential and not offered every semester. Students should check department web page for updates and cancellations due to varying enrollments.

Student Organizations:

Skills USA - All students enrolled in the architecture program are members of Skills USA and have the opportunity to compete in an annual architectural drafting competition.

CSI (Construction Specifications Institute) - Students have an opportunity to join CSI, a national organization that allows students to associate with industry professionals, participate in sponsored design competitions, and participate in community service projects and develop leadership skills.

ARCHITECTURAL TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 67 credits minimum

Visual Art & Design Division
Taylorsville Redwood Campus, TB 416B
General Information, (801) 957-4827
Program Information, (801) 957-3932
www.slcc.edu/arch
Academic Advisor, Cindy Clark, SC W138, (801) 957-3361

Program Faculty:
Professor: Jeff Plant
Associate Professors: Norman Clark, Kevin King

Program Description: The Architectural Technology program curriculum leads to an AAS in Architectural Technology and is designed to provide students with the skills required to become architectural CAD/BIM operators. The AAS curriculum concentrates on the process involved in preparing sets of presentation and construction documents. Drawing skills are developed using computer-aided design (CAD) and building information modeling (BIM) systems. In this process, students study construction details, mechanical systems, building code, specifications and building construction techniques.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Be prepared for drafting positions in architectural offices, building construction and development firms, and consulting engineering offices.	1,5
2. Demonstrate knowledge of residential and commercial construction processes, methods and materials.	1
3. Demonstrate competency in CAD drafting	1
4. Demonstrate knowledge of local and national building codes level appropriate for a second year student.	1
5. Program is current (up-to-date) and continues to offer courses that will help students be prepared to apply for employment in the field.	1
6. Demonstrate architectural drafting and design skills for a set of plans.	1,2,4
7. Acquire substantive knowledge of architectural drawing to assist engineers and owners in the construction process.	1,2
8. Effectively communicate. Develop critical reading, writing, speaking, and listening skills. Organize and present ideas and information orally and in writing. Understand and use the elements of effective communication in group settings.	2
9. Validate the ability to communicate effectively to the architectural profession.	2
10. Communicate effectively while working in classroom groups and teams, brainstorming and synthesizing ideas into workable schemes and presentations.	2
11. Demonstrate proficiency in inspecting construction projects to insure compliance with plans, specifications, building codes and quality assurance standards.	4
12. Engage in service-learning for community building and an enhanced	5

academic experience.	
13. Demonstrate the knowledge base of how architectural design, building codes, and zoning ordinances affect cities, etc.	5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra (QS)	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	
OR				
COMM 1020	Prin Public Speaking	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (51 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 1010	Intro Design Pro	3	F	
ARCH 1100	Intro Arch Draw	3	Sp	
ARCH 1130	Basic Drawing	3	F	
ARCH 1210	Residential Con	5	Sp	ARCH 1310
ARCH 1310	Intro AutoCAD	3	F	
ARCH 1350	Comp Graphics	3	F	
ARCH 1510	Arch Des Wksp	3	Sp	
ARCH 2060	Cons Doc Fund	3	F	ARCH 1010 or CMGT 1010 or instructor approval
ARCH 2150	Arch Graphics	3	Sp	ARCH 1130
ARCH 2210	Commercial Const	5	F	ARCH 1210 or CMGT 1010
ARCH 2240	Applied Structures	4	F, Sp	
ARCH 2310	Mdlng/Rndng/Anml	3	F	
ARCH 2510	Arch CAD II	5	F	ARCH 1210 and 1310
ARCH 2520	Arch CAD III	5	Sp	ARCH 2210 and 2510

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ARCH 1010	3	ARCH 1100	3
ARCH 1130	3	ARCH 1210	5
ARCH 1310	3	ARCH 2150	3
ARCH 1350	3	ENGL 1010	3
ARCH 2240	4	COMM 1010/1020	3
Total	**16**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
ARCH 2060	3	ARCH 1510	3
ARCH 2210	5	ARCH 2520	5
ARCH 2310	3	LE 1220	3
ARCH 2510	5	MATH 1010	4
		DISTRIBUTION	3
Total	**16**	**Total**	**18**

Advising Notes: Please note that required departmental classes are not offered every semester. To graduate in two years, a student must follow the suggested program schedule.

It is the student's responsibility to examine each course description for details about the prerequisite classes. Those prerequisites must be satisfies before the designated class may be taken.

Some classes are being phased out. Check with the Department Coordinator for a list of those classes and allowable substitutions.

ARCHITECTURAL TECHNOLOGY – CAD/BIM EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS)

66 credits minimum

Visual Art & Design Division
Taylorsville Redwood Campus, TB 416B
General Information, (801) 957-4827
Program Information, (801) 957-3932
www.slcc.edu/arch
Academic Advisor, Cindy Clark, SC W138, (801) 957-3361

Program Faculty:
Professor – Jeff Plant
Associate Professors – Norman Clark, Kevin King

Program Description: Computers are being used at an increasing rate in the practice of architecture. A large percentage of design professionals perform a majority of their drawings using CAD/BIM systems. Professionals are using computers for many tasks, including graphic delineation, modeling, rendering, animation and to establish internet presence and interaction.

Students in the Architectural CAD/BIM program will have the opportunity to specialize their architectural training in the developing area of computers. This specialization will provide students with the opportunity to develop computer skills in all areas of CAD, BIM, modeling, rendering, animation and graphic presentation.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Be prepared for drafting positions in architectural offices, building construction and development firms, and consulting engineering offices.	1,5
2. Demonstrate knowledge of residential and commercial construction processes, methods and materials.	1
3. Demonstrate competency in CAD/BIM drafting	1
4. Demonstrate knowledge of local and national building codes level appropriate for a second year student.	1
5. Program is current (up-to-date) and continues to offer courses that will help students be prepared to apply for employment in the field.	1
6. Demonstrate architectural drafting and design skills for a set of plans.	1,2,4
7. Acquire substantive knowledge of architectural drawing to assist engineers and owners in the construction process.	1,2
8. Effectively communicate. Develop critical reading, writing, speaking, and listening skills. Organize and present ideas and information orally and in writing. Understand and use the elements of effective communication in group settings.	2
9. Validate the ability to communicate effectively to the architectural profession.	2
10. Communicate effectively while working in classroom groups and teams, brainstorming and synthesizing ideas into workable schemes and presentations.	2

11. Demonstrate proficiency in inspecting construction projects to insure compliance with plans, specifications, building codes and quality assurance standards.	4
12. Engage in service-learning for community building and an enhanced academic experience.	5
13. Demonstrate the knowledge base of how architectural design, building codes, and zoning ordinances affect cities, etc.	5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra (QS)	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	
OR				
COMM 1020	Prin Public Speaking	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (50 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 1010	Intro Design Pro	3	F	
ARCH 1100	Intro Arch Draw	3	Sp	
ARCH 1130	Basic Drawing	3	F	
ARCH 1210	Residential Con	5	Sp	ARCH 1310
ARCH 1310	Intro AutoCAD	3	F	
ARCH 1350	Comp Graphics	3	F	
ARCH 1510	Arch Des Wksp	3	Sp	
ARCH 2210	Commercial Const	5	F	ARCH 1210 or CMGT 1010
ARCH 2310	Mdlng/Rndng/AnmI	3	F	
ARCH 2320	Mdlng/Rndng/AnmII	3	Sp	ARCH 2310
ARCH 2330	CAD Custom	3	Sp	ARCH 1310
ARCH 2350	Adv Arch CAD	3	Sp	
ARCH 2510	Arch CAD II	5	F	ARCH 1210 and 1310
ARCH 2520	Arch CAD III	5	Sp	ARCH 2210 and 2510

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ARCH 1010	3	ARCH 1100	3
ARCH 1130	3	ARCH 1210	5
ARCH 1310	3	COMM 1010/1020	3
ARCH 1350	3	ENGL 1010	3
MATH 1010	4	DISTRIBUTION	3
Total	**16**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
ARCH 2210	5	ARCH 1510	3
ARCH 2310	3	ARCH 2320	3
ARCH 2510	5	ARCH 2330	3
LE 1220	3	ARCH 2350	3
		ARCH 2520	5
Total	**16**	**Total**	**17**

Advising Notes: Please note that required departmental classes are not offered every semester. To graduate in two years, a student must follow the suggested program schedule.

It is the student's responsibility to examine each course description for details about the prerequisite classes. Those prerequisites must be satisfies before the designated class may be taken.

Some classes are being phased out. Check with the Department Coordinator for a list of those classes and allowable substitutions.

AUTOMOTIVE COLLISION REPAIR AND REFINISHING – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 64 credits minimum

Technical Specialties Division
Miller Campus, MATC 106
General Information, (801) 957-4073
Program Information, (801) 957-5365
www.slcc.edu/autotechnologies
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Professors – Neal Grover
Instructors – Hondo Espil

Program Description: This is a two-year composite program of automotive refinishing and collision repair. Students may only start every Fall semester in the major courses because of course prerequisites. Students enrolled in the program register for the same theory and laboratory classes, but the related education classes will be different from those offered in the auto refinishing and auto collision repair certificate programs. General Education and elective courses provide training in effective oral and written communication and human relations skills.

Career Opportunities: Auto collision repair and refinishing specialists receive excellent pay and job security. Students can take advantage of SLCC's strong network in the auto repair industry for job placement and career enhancement.

Earnings in this field of technology are dependent upon a person's work ethic and productivity. There are untold numbers of jobs available for anyone who completes the program.

Many jobs are not in the actual hands-on repair area. Jobs can range from sales of automotive repair products, including paint coatings, to insurance claims to shop manager. It is not uncommon for workers to earn $75,000 to over $100,000 annually. Because of the tremendous demand for trained technicians, beginning workers move rapidly up the ladder to higher paying positions.

Transfer/Articulation Information: Students who earn an AAS degree in Automotive Collision Repair and Refinishing have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: The collision repair technician's work requires fast job analysis and the ability to visualize what is needed to restore the damaged vehicle. Those interested in entering auto collision repair and refinishing should be in good physical condition, have good hand-eye coordination, manual dexterity, and have an appreciation and understanding of color.

Students may start the major courses during the Fall semester only. For information on getting started, please visit www.slcc.edu/students-future/admissions

Estimated Cost for Students:
Tuition per semester: www.slcc.edu/students-future/tuition-fees
Tools and Supplies: $800
Books: $250

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with

	others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students will gain entry level employment skills in Non-Structural Collision Damage Repair. ACR 1100 and ACR 1111 1. I-CAR WKR 01 Worker Protection. General shop safety and working with potentially hazardous materials found in the industry. 2. I-CAR FCR 01 Fundamentals of Collision Repair 3. I-CAR WCS 01 Welding and Cutting Steel 4. I-CAR DAM 01 Damage Analysis Program one. Vehicle ID, Estimating Systems, and Terminology. 5. I-CAR DAM 02 Damage Analysis Program two. Frontal Impact Analysis. 6. I-CAR DAM 03 Damage Analysis Program three. Mechanical Systems Analysis. 7. I-CAR DAM 04 Damage Analysis Program four. Restraints, Interior Glass, Side and Rear Impact Analysis. 8. I-CAR WCS 05 Oxy-acetylene/Plasma Arc Cutting 9. I-CAR GLA 01 Movable Glass and Hardware	1, 3, 4
2. Students will gain entry level employment skills in Structural Collision Damage Repair. ACR 1200 and ACR 1211 1. I-CAR Corrosion Protection Steel. 2. I-CAR Stationary Glass 01 Stationary Glass Service 3. I-CAR MEA 01 Measuring 4. I-CAR SSS 01 Structural Straightening Steel 5. I-CAR SPS 01. Steel Unibody Front and Rear Rails, Floors and Front Structures 6. I-CAR SPS 02 Steel Unibody A-, B-, C-, D-Pillars, and Rocker Panels 7. I-CAR SPS 03 Steel Full Frame Sectioning 8. I-CAR WCS 03 Automotive Steel GMAW (MIG) Welding Qualification Test	1, 3, 4
3. Students will gain entry level employment skills in Surface Preparation and application of undercoats. AR 1100 and AR 1111 1. I-CAR WKR 01 Worker Protection. General shop safety and working with potentially hazardous materials found in the industry. 2. I-CAR REF 04 Detailing 3. I-CAR REF 01 Refinishing Equipment And VOC Regulations 4. I-CAR REF 02 Surface Preparation and Masking	1, 3, 4
4. Students will gain entry level employment in the Application of Topcoats. AR 1200 and AR 1211 Theory and lab courses in advanced refinishing procedures and techniques including color matching and multi-stage finishes.	1, 3, 4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry	3	F, Sp	MATH 0900

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (50 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACR 1100	Metal/Nonstrc Parts	5	F	Coreq: ACR 1111
ACR 1111	Nonstrc Skill Apl Dev	7	F	Coreq: ACR 1100
ACR 1200	Struc Ana Damage Rpr	5	Sp	ACR 1110 and 1111. Coreq: ACR 1211
ACR 1211	Struc Damage Repair	7	Sp	ACR 1110 and 1111. Coreq: ACR 1200
AR 1100	Auto Refinishing	5	F	Coreq: AR 1111
AR 1111	Refinish Skill Dev	7	F	Coreq: AR 1100
AR 1200	Adv Auto Refinish	5	Sp	AR 1100 and 1111. Coreq: AR 1211
AR 1211	Adv Skill Devlop	7	Sp	AR 1100 and 1111. Coreq: AR 1200
AR 1230	Auto Color & Design	2	Sp	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACR 1100	5	ACR 1200	5
ACR 1111	7	ACR 1121	7
IND 1120	3	CM	3
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
AR 1100	5	AR 1200	5
AR 1111	7	AR 1211	7
ENGL 1010	3	AR 1230	2
HR	2-3	DISTRIBUTION	3
Total	**17-18**	**Total**	**17**

Advising Notes: Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program. It is the students' responsibility to understand the requirements for their chosen program of study. It is highly recommended that the student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Currently the Automotive Collision Repair and Refinishing courses are taught during the day.

It is possible to earn some laboratory credit through cooperative education if students are employed in a related job involving automotive mechanics. With prior approval of a teaching faculty member and faculty CO-OP coordinator for the Automotive Department, students would register for the regular laboratory course.

AUTOMOTIVE TECHNICIAN – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 68 credits minimum

Technical Specialties Division
Miller Campus, MATC 203
General Information, (801) 957-4073
Program Information, (801) 957-5231
www.slcc.edu/autotechnologies
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Assistant Professor – Brett Baird
Instructors – Ed White, Jon Longo, Norman Brown, Dennis O'Rielly

Program Description: The four-semester automotive technician program is designed to train students in both domestic and imported vehicle mechanics and repairs. It prepares students to enter into the job market as technicians skilled in all facets of automotive repair.

Prospective auto technicians should be in good physical condition, have above average mechanical aptitude and hand-eye coordination and have problem-solving and critical thinking skills.

Career Opportunities: Upon completion of this program, graduates may find employment opportunities as automotive transmission specialists, engine performance experts, automobile air conditioning specialists, front end and brake technicians and emission control specialists. Most technicians furnish their own hand tools. Employers furnish engine analyzers and specialized test equipment and tools for servicing service units such as automatic transmissions. Skills in automotive diagnosis and repair open the doors to a multitude of jobs throughout the state and nation.

HONDA PACT (PROFESSIONAL AUTOMOTIVE CAREER TRAINING)
In order to be at the "cutting edge" of technology, the Salt Lake Community College, in agreement with American Honda Motor Company, has included the American Honda Professional Automotive Career Training (PACT) into its Automotive Technician AAS Degree program. Honda PACT is designed to allow students to receive additional training in the repair and maintenance of Honda and Acura automobiles. Honda PACT consists of technical training for automotive service professionals specializing in customer service. Students become Honda PACT students by completing AUTO 1010 Maintenance and Light Repair Fundamentals and successfully passing a series of Honda-specific tests called Honda Express. Learn more about Honda PACT at www.hondacareers.com

Transfer/Articulation Information: Students who earn an AAS degree in Automotive Technician have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: Students may enter into this program Fall, Spring or Summer semester. Successful completion of, or testing out of, AUTO 1010 is required before students can enroll in additional automotive courses. To be able to test out of AUTO 1010, a student must meet one of the following qualifications: 1. Completed two years of Auto classes in High School OR 2. Have at least one year of work experience as an automotive technician. If you meet one of these requirements, you may then speak with the instructor for this class, regarding the option to test out of AUTO 1010. Successful completion of AUTO 1010 is a passing grade of a C or higher for either course completion or testing out.

AUTO 1010 can be taken as concurrent enrollment in High School programs. AUTO 1010 will also be offered in the summer semester and twice during both Fall and Spring semesters.

For information on getting started, please visit www.slcc.edu/students-future

Estimated Cost for Students:

Tuition per semester: www.slcc.edu/students-future/tuition-fees
Tools and Supplies: $2,000
Books: $850

Estimated Time to Completion: The Automotive Technician AAS degree requires a minimum of four full-time semesters and a minimum of 68 credit hours.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Completers will obtain Automotive Engine Repair entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5
2. Completers will obtain Automotive Automatic Transmission and Transaxle entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5
3. Completers will obtain Automotive Manual Drive Train and Axles entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5
4. Completers will obtain Automotive Suspension and Steering entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5
5. Completers will obtain Automotive Brakes entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5
6. Completers will obtain Automotive Electrical/Electronic Systems entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5
7. Completers will obtain Automotive Heating and Air Conditioning entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5
8. Completers will obtain Automotive Engine Performance entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry (QS)	3	F, Sp	MATH 0900

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (54 CREDITS)

COURSE		CR	SEM	PREREQUISITE
AUTO 1010	Maint & Lt Repair Fun	6	A	
AUTO 1150	Auto Electr & Electronics	6	F, Sp	AUTO 1010 w/ C grade or better or challenge exam
AUTO 1250	Auto Engine Repair	6	F, Sp	AUTO 1010 w/C grade or better or challenge exam
AUTO 1350	Auto Braking Syst	6	F, Sp	AUTO 1010 w/C grade or better or challenge exam
AUTO 1450	Auto Susp and Steering	6	F, Sp	AUTO 1010 w/ C grade or better or challenge exam
AUTO 2150	Manual Trans and AC	6	F, Sp	All 1000 level AUTO courses w/ C grade or better
AUTO 2250	Automatic Trans	6	F, Sp	All 1000 level AUTO courses w/ C grade or better
AUTO 2350	Engine & Emi Contls I	6	F, Sp	All 1000 level AUTO courses w/ C grade or better
AUTO 2450	Engine & Emi Contls II	6	F, Sp	All 1000 level AUTO courses w/ C grade or better and AUTO 2350 w/C grade or better

SAMPLE SCHEDULE

SUMMER SEMESTER			
AUTO 1010	6		
Total	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
AUTO 1150	6	AUTO 1350	6
AUTO 1250	6	AUTO 1450	6
CM	3	IND 1120	3
		HR	2-3
Total	**15**	**Total**	**17-18**
FALL SEMESTER		**SPRING SEMESTER**	
AUTO 2150	6	AUTO 2350	6
AUTO 2250	6	AUTO 2450	6
ENGL 1010	3	DISTRIBUTION	3
Total	**15**	**Total**	**15**

Available Internship: Students desiring to complete an internship while pursuing an AAS degree in Automotive Technician may do so after successfully completing all required 1000 courses and by substituting one of these courses (AUTO 2150, AUTO 2250, or AUTO 2450) with a 6 credit hour course AUTO 2000 – Roger L. Miller Automotive Internship when properly approved. The student will perform 180 clock hours of automotive repair related internship work. Internships may be paid or unpaid.

Advising Notes: Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program.

It is the students' responsibility to understand the requirements for their chosen program of study. It is highly recommended that the student meet with the program advisor prior to starting this program.

Currently the Automotive Technician program offers day and evening classes.

SKILLS USA
All students enrolled in the automotive program may participate in Skills USA. This program is designed to promote leadership, communication, social and employability skills.

It is possible to earn some laboratory credit through cooperative education if students are employed in a job involving automotive mechanics. With prior approval of a teaching faculty member and faculty CO-OP coordinator for the Automotive Department, students would register for the regular laboratory course.

COLLISION, MAINTENANCE & LIGHT REPAIR – ASSOCIATE OF APPLIED SCIENCE^{CTE} (AAS) 65 credits minimum

Technical Specialties Division
Miller Campus, Miller Automotive Training Center, Office MATC 203
General Information, (801) 957-4073
Program Information, (801) 957-4346
Program Website: http://www.slcc.edu/autotechnologies
Academic Advisor: Taylorsville Redwood Campus, CT 249, (801) 957-4550

Program Faculty:
Professor- Neal Grover,
Instructor - John "Hondo" Espil
Automotive Assistant Professor - Brett Baird
Automotive Instructors – Ed White, Jon Longo, Norman Brown, Dennis O'Reilly
Diesel Assistant Professor – Mark Kranendonk
Diesel Instructor – Bill Kleman

Program Description: The program is designed to provide students with a practical hands-on technical experience through a Certificate of Completion in Automotive Collision Repair, along with a Certificate of Completion in Diesel or Automotive Maintenance and Light Repair. Students will learn the skills to prepare them for entry level positions in the Automotive Collision repair field and the Diesel or Automotive repair field. Graduating students will achieve two Certificates of Completion in their areas of study along with an AAS Degree in Collision, Maintenance and Light Repair.

Designated Technical Specialization Certificates of Completion:
Automotive Collision Repair (32 credits)
Automotive Maintenance and Light Repair (38 credits)
Diesel Systems Technology (33 credits)

Career Opportunities: Entry level positions within a technical company, the field or shop. Additional opportunities are available include self-employment, service representative, shop repair estimator, insurance estimator-adjustor, designer, fabricator, sales-product representative, technician helper, general repair technician, repair and service specialist (engines, drivability – electronics and mechanical, drive mechanism, brakes, steering and alignment, welding – composite, steel, aluminum, and frame repair, and uni-body damager analysis and repair).

Transfer/Articulation Information: For information regarding transfer options, please contact the SLCC Program Advisor at (801) 957-4550. Students who earn an AAS degree in Collision, Maintenance & Light Repair have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU can accept up to 45 technical credits towards this degree.

Program Entry Requirements:
Collision repair/diesel/automotive maintenance and light repair technician duties require fast knowledgeable problem analysis and the ability to perform the required tasks to return a vehicle back to service. Those interested in entering these fields should be in good physical condition, have good mechanical abilities, good hand-eye coordination, manual dexterity, good work ethics and interpersonal skills.

Total Program/Course Fees: See individual Certificate of Completions

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuitionfees.asp the estimated cost of books and personal tools & equipment is based on the individual technical programs chosen. Please see the Certificate of Completion descriptions for technical choices and for the Collision Repair Certificate of Completion description.

Estimated Time to Completion: If students follow the suggested sample schedule time to completion is one (1) year.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively

	3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
See Technical Area of Specialization (Automotive or Diesel)	
See Collision Repair	

GENERAL EDUCATION REQUIREMENTS*

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Introduction to Writing (EN)	3	A	Wrtg 0990 w/C grade or better or appropriate Accuplacer score.

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry (QS)	3	F, Sp	Prereq: MATH 0900 w/C grade or better.
or				
MATH 1010	Intermediate Algebra (QS)	4	A	Prereq: RDG 0900; and within the last year, MATH 0990 w/C grade of better, or appropriate Accuplacer score.
or				
Any approved QL designated course				

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Prin/Public Spkg (CM,IN)	3	A	
or				
Any Approved CM Class				

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations (SS, HR)	3	A	
or				
Any Approved HR Class				

DISTRIBUTION AREAS (BS, FA, HU, PS, SS, ID) 3 CREDITS

COURSE
Choose one course (3-4 credit hours) from the distribution areas.

***NOTE:** These General Education courses may have been completed as part of the Technical Specialization Certificate of Completion.

NOTE: Additional General Education courses are required for students who choose to continue on to an AS Degree or transfer. For course selection see your Academic Advisor.

ELECTIVES

Select 1 – 6 credits as needed in order to meet the 65 credit minimum for an AAS degree from the following, based on your chosen pathway, transfer needs and academic advising recommendations.

REQUIRED CERTIFICATES OF COMPLETION: (65 CREDITS MINIMUM)*

Select and complete one of the following Technical Certificates of Completion:

Automotive Maintenance and Light Repair (38 credits)

Diesel Systems Technology (33 credits)

And

Complete the Automotive Collision Repair Certificate of Completion (32 credits)

SAMPLE SCHEDULE	
FALL SEMESTER	**SPRING SEMESTER**

First Year = Automotive Maintenance and Light Repair or Diesel Systems Technology Certificate of Completion			
Total		**Total**	
FALL SEMESTER		**SPRING SEMESTER**	
Second Year = Automotive Collision Repair Certificate of Completion			
(Fulfill remaining General Education required for AAS degree, please see Academic Advisor)			
Total		**Total**	

Advising Notes: Students will need basic reading and math skills. Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is highly recommended that each student meet with the program advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4550.

Currently the Diesel courses are taught during the day.

Additional Program Notes: All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employable skills. For more information see http://skillsusa-utah.org

AUTOMOTIVE COLLISION REPAIR – CERTIFICATE OF COMPLETION[CTE] 32 credits minimum

Technical Specialties Division
Miller Campus, MATC 106
General Information, (801) 957-4073
Program Information, (801) 957-5365
www.slcc.edu/autotechnologies
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Professors –Neal Grover
Instructors – Hondo Espil

Program Description: Auto Collision Repair Technicians are skilled individuals who repair damaged motor vehicles by straightening bent structures, removing dents from fenders and body panels, welding torn metal and replacing badly damaged parts. Collision repair technicians are qualified to repair all types of vehicles, although most work is on automobiles and small trucks. The collision repair technician's work is characterized by variety because each damaged vehicle presents a different problem.

Any course offered in this program can be taken as part of the major course requirements for an Associate of Science degree in General Studies.

Transfer/Articulation Information: Students who complete the Automotive Collision Repair Certificate of Completion may continue on to earn the Associate of Applied Science in Automotive Collision Repair and Refinishing.

Students who earn an AAS degree in Automotive Collision Repair and Refinishing have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree. Contact the University Center for current information. www.slcc.edu/universitycenter/programs or call (801) 957-4824.

Program Entry Requirements: Those interested in entering auto collision repair should be in good physical condition and have good hand-eye coordination. The collision repair technician's work requires fast job analysis and the ability to visualize what is needed to restore the damaged vehicle. Welding light gauge metal is one of the skills to be acquired along with parts repair and replacement.

Students may only start every Fall semester in ACR classes. For information on getting started, please visit www.slcc.edu/students-future/admissions

Estimated Cost for Students: Tuition per semester: www.slcc.edu/students-future/tuition-fees

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will gain entry level employment skills in Non-Structural Collision Damage Repair. ACR 1100 and ACR 1111 1. I-CAR WKR 01 Worker Protection. General shop safety and working with potentially hazardous materials found in the industry. 2. I-CAR FCR 01 Fundamentals of Collision Repair	1, 3, 4

3. I-CAR WCS 01 Welding and Cutting Steel 4. I-CAR DAM 01 Damage Analysis Program one. Vehicle ID, Estimating Systems, and Terminology. 5. I-CAR DAM 02 Damage Analysis Program two. Frontal Impact Analysis. 6. I-CAR DAM 03 Damage Analysis Program three. Mechanical Systems Analysis. 7. I-CAR DAM 04 Damage Analysis Program four. Restraints, Interior Glass, Side and Rear Impact Analysis. 8. I-CAR WCS 05 Oxy-acetylene/Plasma Arc Cutting 9. I-CAR GLA 01 Movable Glass and Hardware	
Students will gain entry level employment skills in Structural Collision Damage Repair. ACR 1200 and ACR 1211 1. I-CAR Corrosion Protection Steel. 2. I-CAR Stationary Glass 01 Stationary Glass Service 3. I-CAR MEA 01 Measuring 4. I-CAR SSS 01 Structural Straightening Steel 5. I-CAR SPS 01. Steel Unibody Front and Rear Rails, Floors and Front Structures 6. I-CAR SPS 02 Steel Unibody A-, B-, C-, D-Pillars, and Rocker Panels 7. I-CAR SPS 03 Steel Full Frame Sectioning 8. I-CAR WCS 03 Automotive Steel GMAW (MIG) Welding Qualification Test	1, 3, 4

REQUIRED COURSES: (32CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACR 1100	Metal/Nonstrc Parts	5	F	Coreq: ACR 1111
ACR 1111	Nonstrc Skill Apl Dev	7	F	Coreq: ACR 1100
ACR 1200	Struc Ana Damage Rpr	5	Sp	ACR 1100 and ACR 1111 Coreq: ACR 1211
ACR 1211	Struc Damage Repair	7	Sp	ACR 1100 and ACR 1111 Coreq: ACR 1200
IND 1120	Math for Industry	3	F, Sp	MATH 0900
Choose any approved CM course		3	A	
Choose any approved HR course		2-3	A	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACR 1100	5	ACR 1200	5
ACR 1111	7	ACR 1211	7
IND 1120	3	CM	3
HR	2-3		
Total	**17-18**	**Total**	**15**

Advising Notes: Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is the students' responsibility to understand the requirements for their chosen program of study. It is highly recommended that the student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Currently the Automotive Collision Repair courses are taught during the day.

AUTOMOTIVE MAINTENANCE & LIGHT REPAIR – CERTIFICATE OF COMPLETION[CTE] 38 credits minimum

Technical Specialties Division
Miller Campus, MATC 203
General Information, (801) 957-4073
Program Information, (801) 957-5231
www.slcc.edu/autotechnologies
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Assistant Professors – Vince Badger, Brett Baird
Instructors – Norman Brown, Jon Longo, Dennis O'Rielly, Ed White

Program Description: The one year Certificate of Completion in Automotive Maintenance and Light Repair program is designed to train students in both domestic and imported vehicle mechanics and repairs. It prepares students to enter into the job market as technicians skilled in maintenance and light repair facets of automotive repair.

Prospective auto technicians should be in good physical condition, have above average mechanical aptitude and hand-eye coordination and have problem-solving and critical thinking skills.

Career Opportunities: Upon completion of this program, graduates may find employment opportunities as automotive maintenance technicians, steering and suspension and brake technicians, engine repair technicians, and automotive electrical technicians. Most technicians furnish their own hand tools. Skills in automotive diagnosis and repair open the doors to a multitude of jobs throughout the state and nation.

HONDA PACT (PROFESSIONAL AUTOMOTIVE CAREER TRAINING)
The American Honda Professional Automotive Career Training (PACT) program is available to students pursuing the Automotive Technician AAS Degree.

Transfer/Articulation Information: Students who complete the Automotive Maintenance & Light Repair Certificate of Completion may continue on to earn the Associate of Applied Science Degree in Automotive Technician, or an Entrepreneurship Emphasis, or Associate of Science Transfer Emphasis. Upon completion of the AAS or AS options students may transfer to UVU to complete their BS in the Technology Management Program or in Integrated Studies.

Program Entry Requirements: Students may enter into this program Summer, Fall, or Spring semester. Successful completion of, or testing out of, AUTO 1010 is required before students can enroll in additional automotive courses. To be able to test out of AUTO 1010, a student must meet one of the following qualifications: 1. Completed two years of Auto classes in High School OR 2. Have at least one year of work experience as an automotive technician. If you meet one of these requirements, you may then speak with the instructor for this class, regarding the option to test out of AUTO 1010. Successful completion of AUTO 1010 is a passing grade of a C or higher for either course completion or testing out.

AUTO 1010 can be taken as concurrent enrollment in High School programs. AUTO 1010 will also be offered in the summer semester and twice during both Fall and Spring semesters.

For information on getting started, please visit www.slcc.edu/students-future

Estimated Cost for Students:
Tuition per semester: www.slcc.edu/students-future/tuition-fees
Tools and Supplies: $2,000
Books: $520

Estimated Time to Completion: If students follow the suggested schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy

	4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
1. Completers will obtain Automotive Engine Repair entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5, 6, 7
2. Completers will obtain Automotive Suspension and Steering entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5, 6, 7
3. Completers will obtain Automotive Brakes entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5, 6, 7
4. Completers will obtain Automotive Electrical/Electronic Systems entry level employment skills in accordance with NATEF standards.	1, 2, 4, 5, 6, 7

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry (QS)	3	F	Prereq: MATH 0900 w/C grade or better.
OR				
MATH 1010	Intermediate Algebra (QS)	4	A	Prereq: RDG 0900; and within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score.
OR				
Any MATH course numbered higher than MATH 1010				

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Public Speaking	3	A	
OR				
Any Approved CM Class				

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations	3	A	
OR				
Any Approved HR Class		2-3		

NOTE: Additional General Education courses are required for students who choose to continue on to the AAS or AS degrees. Additional requirements include English Composition and courses in the Gen Ed Distribution Areas. For course selection, see the School of Technical Specialties Academic Advisor.

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
AUTO 1010	Maint & Lt Repair Fun	6	A	
AUTO 1150	Auto Electr & Electronics	6	F, Sp	AUTO 1010 w/ C grade or better
AUTO 1250	Auto Engine Repair	6	F, Sp	AUTO 1010 w/C grade or better
AUTO 1350	Auto Braking Syst	6	F, Sp	AUTO 1010 w/C grade or better
AUTO 1450	Auto Susp and Steering	6	F, Sp	AUTO 1010 w/ C grade or better

NOTE: A passing grade for all required AUTO courses is a C or higher.

SAMPLE SCHEDULE			
SUMMER SEMESTER			
AUTO 1010	6		
Total	**6**		
FALL SEMESTER		**SPRING SEMESTER**	
AUTO 1150	6	AUTO 1350	6
AUTO 1250	6	AUTO 1450	6
CM	3	IND 1120	3
		HR	2-3
Total	**15**	**Total**	**17-18**

Advising Notes: It is the students responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Currently the Automotive Technician program offers day and evening classes.

SkillsUSA
All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employability skills. For more information see: www.slcc.edu/cte/skills-usa or http://www.skillsusa-utah.org

AUTOMOTIVE REFINISHING – CERTIFICATE OF COMPLETION[CTE] 34 credits minimum

Technical Specialties Division
Miller Campus, MATC 106
General Information, (801) 957-4073
Program Information, (801) 957-5365
www.slcc.edu/autotechnologies
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Professors –Neal Grover
Instructors – Hondo Espil

Program Description: Automobile refinishing technicians restore damaged motor vehicles to "look like new" appearance. These skilled technicians repaint vehicles that have lost the luster of original paint and the repaired portions of vehicles damaged in accidents. The technician prepares the vehicles to receive the new finish. A spray gun then is used to apply under coats to the substrate surface. After the primer coat dries, the surface is prepared for top coats.

Before painting prepared portions of the vehicle, the technician may mix paints or colors to match the existing color of the car. The spray gun technique is vital and must be handled skillfully so the paint is applied evenly. A knowledge of the various materials, supplies and equipment used in the refinishing process is vital. The program requires manual dexterity, average scholastic ability and an appreciation and understanding of color. General Education and elective courses provide training in effective oral and written communication and human relations skills. Students may only start every Fall semester in AR classes.

Transfer/Articulation Information: Students who complete the Automotive Refinishing Certificate of Completion may continue on to earn the Associate of Applied Science in Automotive Collision Repair and Refinishing.

Students who earn an AAS degree in Automotive Collision Repair and Refinishing have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree. Contact Academic and Career Advising for current information.

Program Entry Requirements: Students may only start every Fall semester in AR classes. For information on getting started, please visit www.slcc.edu/students-future/admissions

Estimated Cost for Students: Tuition per semester: www.slcc.edu/students-future/tuition-fees

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will gain entry level employment skills in Surface Preparation and application of undercoats. AR 1100 and AR 1111 1. I-CAR WKR 01 Worker Protection. General shop safety and working with potentially hazardous materials found in the industry. 2. I-CAR REF 04 Detailing 3. I-CAR REF 01 Refinishing Equipment And VOC Regulations 4. I-CAR REF 02 Surface Preparation and Masking	1, 3, 4

Students will gain entry level employment in the Application of Topcoats. AR 1200 and AR 1211 Theory and lab courses in advanced refinishing procedures and techniques including color matching and multi-stage finishes.	1, 3, 4

REQUIRED COURSES: (34 CREDITS)

COURSE		CR	SEM	PREREQUISITE
AR 1100	Auto Refinishing	5	F	Coreq: AR 1111
AR 1111	Refinish Skill Dev	7	F	Coreq: AR 1100
AR 1200	Adv Auto Refinish	5	Sp	AR 1100 and AR 1111 Coreq: AR 1211
AR 1211	Adv Skill Devlop	7	Sp	AR 1100 and AR 1111 Coreq: AR 1200
AR 1230	Auto Color & Ds	2	Sp	none
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
IND 1120	Math for Industry	3	F, Sp	MATH 0900
Choose any approved HR course		2-3	A	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
AR 1100	5	AR 1200	5
AR 1111	7	AR 1211	7
IND 1120	3	AR 1230	2
ENGL 1010	3	HR	2-3
Total	**18**	**Total**	**16-17**

Advising Notes: Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Currently the Automotive Collision Refinishing courses are taught during the day.

MOTORCYCLE AND OUTDOOR POWER EQUIPMENT TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE]

32 credits minimum

Technical Specialties Division
Miller Campus, MATC 203
General Information, (801) 957-4073
Program Information, (801) 957-5231
http://www.slcc.edu/smallengines
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Instructor – Bill Breedlove

Program Description: This is a comprehensive one year Certificate of Completion program designed to train students with very little mechanical or electrical knowledge and prepare them for the fast-growing motorcycle, outdoor power equipment and recreational vehicle service and repair industry. The program will also prepare students for the Equipment and Engine Training Council/Outdoor Power Equipment (EETC/OPE) certifications.

Students will study engine operation theory, electrical, drive train, suspension systems, fuel injection, carburetors, turbo charging and service and maintenance procedures. The program challenges and prepares students to become specialists in the service, repair and tuning of small gasoline engines.

Transfer/Articulation Information: Students who complete the Motorcycle and Outdoor Power Equipment Technology Certificate of Completion may continue on to earn and Associate of Applied Science or Associate of Science Transfer Emphasis. Upon completion of the AAS or AS options students may transfer to UVU to complete their BS in the Technology Management Program or in Integrated Studies.

Career Opportunities: Career opportunities can be found in many areas including:

- Competition and Race Preparation
- Construction and Maintenance
- Factory Sales and Service
- Farming and Agriculture
- Forestry and Logging
- Landscaping, Lawn and Garden
- Off-Road Vehicle Sales and Service
- Recreational Vehicle Sales and Service

Program Entry Requirements: Students may start this program Summer, Fall or Spring semester. For information on getting started, please visit www.slcc.edu/strudents-future.

Estimated Cost for Students:

Tuition per semester: www.slcc.edu/students-future/tuition-fees
Tools* and Supplies: S2,400
Books: $250
*Several manufactures offer students discounts on tools. Consult with your instructor prior to purchasing tools.

Estimated Time to Completion: If students follow the suggested schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
1. Graduates of this program are prepared with skills that result in accelerated advancement in their employment.	1, 2, 3, 4, 6, 7

2. Students from this program who participate in skill competitions against equivalent providers prevail at a higher rate than their competitors.	1, 2, 3, 4, 6, 7
3. To prepare students to take the EETC/OPE certification test.	1, 2, 3, 4
4. To prepare students to be proficient, professional technicians for the motorcycle and outdoor power equipment industry.	1, 2, 3, 4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:*

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry (QS)	3	F	Prereq: MATH 0900 w/C grade or better.
OR				
MATH 1010	Intermediate Algebra (QS)	4	A	Prereq: RDG 0900; and within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score.
OR				
Any MATH course numbered higher than MATH 1010				

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Public Speaking	3	A	
OR				
Any Approved CM Class				

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations	3	A	
OR				
Any Approved HR Class				

NOTE: Additional General Education courses are required for students who choose to continue on to the AAS or AS degrees. Additional requirements include English Composition and courses in the Gen Ed Distribution Areas. For course selection, see the School of Technical Specialties Academic Advisor.

REQUIRED COURSES: (24 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MOTO 1111	Engine Fund & Repair	3	F	Coreq: MOTO 1112
MOTO 1112	Engine Fund & Repair Lab	6	F	Coreq: MOTO 1111
MOTO 1121	Motorcycle/OPE Electric	1	F	Coreq: MOTO 1122
MOTO 1122	Mtrcycle/OPE Electric Lab	2	F	Coreq: MOTO 1121
MOTO 1131	M/C&OPE Engine Perf	2	Sp	Coreq: MOTO 1132
MOTO 1132	M/C&OPE Engine Lab	3	Sp	Coreq: MOTO 1131
MOTO 1141	M/C&OPE DrvTrn/Chassis	2	Sp	Coreq: MOTO 1142
MOTO 1142	M/C&OPE DrvTrn Lab	5	Sp	Coreq: MOTO 1141

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
MOTO 1111	3	MOTO 1131	2
MOTO 1112	6	MOTO 1132	3
MOTO 1121	1	MOTO 1141	2
MOTO 1122	2	MOTO 1142	5
IND 1120	3	CM	3
		HR	2-3
Total	**15**	**Total**	**17-18**

Advising Notes: It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Currently the Motorcycle and Outdoor Power Equipment courses are taught during the day.

SkillsUSA

All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employability skills.

MOTORCYCLE AND OUTDOOR POWER EQUIPMENT TECHNOLOGY – CERTIFICATE OF PROFICIENCY[CTE]

24 credits minimum

Technical Specialties Division
Miller Campus, MATC 203
General Information, (801) 957-4073
Program Information, (801) 957-5231
www.slcc.edu/autotechnologies
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Instructors – Bill Breedlove

Program Description: This is a comprehensive program designed to train students with very little mechanical or electrical knowledge and prepare them for the fast-growing motorcycle and outdoor power equipment service and repair industry. The program will also prepare students for the EETC/OPE certification.

Students will study engine operation theory, electrical, drive train, suspension systems, fuel injection, carburetors, turbo charging and service and maintenance procedures. The program challenges and prepares students to become specialists in the service, repair and tuning of small gasoline engines.

Career Opportunities: Career opportunities can be found in many areas including:

- competition and race preparation
- construction and maintenance
- factory sales and service
- farming and agriculture
- forestry and logging
- landscaping, lawn and garden
- off-road vehicle sales and service
- recreational vehicle sales and service

Program Entry Requirements: Students may start this program Fall or Spring semester. For information on getting started, please visit www.slcc.edu/students-future

Estimated Cost for Students:
Tuition per semester: www.slcc.edu/students-future/tuition-fees
Tools and Supplies: $1,100
Books: $400

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow the suggested schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1. Graduates of this program are prepared with entry level skills that result in accelerated advancement in their employment.	1, 2, 3, 4, 5
2. Students from this program who participate in skill competitions against equivalent providers prevail at a higher rate than their competitors.	1, 2, 3, 4, 5

3. To prepare students to take the EETC/OPE certification test.	1
4. To prepare students to be proficient, professional technicians for the motorcycle and outdoor power equipment industry.	1

REQUIRED COURSES: (24 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MOTO 1111	Engine Fund & Repair	3	F	Coreq: MOTO 1112
MOTO 1112	Engine Fund & Repair Lab	6	F	Coreq: MOTO 1111
MOTO 1121	Motorcycle/OPE Electric	1	F	Coreq: MOTO 1122
MOTO 1122	Mtrcycle/OPE Electric Lab	2	F	Coreq: MOTO 1121
MOTO 1131	M/C&OPE Engine Perf	2	Sp	Coreq: MOTO 1132
MOTO 1132	M/C&OPE Engine Lab	3	Sp	Coreq: MOTO 1131
MOTO 1141	M/C&OPE DrvTrn/Chassis	2	Sp	Coreq: MOTO 1142
MOTO 1142	M/C&OPE DrvTrn Lab	5	Sp	Coreq: MOTO 1141

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
MOTO 1111	3	MOTO 1131	2
MOTO 1112	6	MOTO 1132	3
MOTO 1121	1	MOTO 1141	2
MOTO 1122	2	MOTO 1142	5
Total	**12**	**Total**	**12**

Advising Notes: It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

Currently the Motorcycles and Outdoor Power Equipment courses are taught during the day.

SKILLS USA
All students enrolled in the program may participate in Skills USA. This program is designed to promote leadership, communication, social, and employability skills.

ADULT BASIC EDUCATION: MATH, READING, & WRITING

Division of Applied Technology
South City Campus
General Information: 801-957-7522
Program Information: 801-957-3354
www.slcc.edu/sat/programs/basicskills/adultbasiceducation
Academic Advisor: Hector Cando, 801-957-3112

Program Faculty:
Assistant Professor – Martha Hess

The School of Applied Technology at Salt Lake Community College provides quality career and technical education in a flexible, competency-based format to meet the needs of students who desire low-cost training for high-skill job fields. Programs are responsive to business and industry requirements resulting in appropriate licensure, certification, or evidence of completion. Applied Technology programs specialize in non-credit, open-entry, open-exit instructional delivery. This means students may enroll weekly depending on the school calendar and available seats, and are able to complete courses when proficiency has been demonstrated and evaluated by instructors.

Program Description: Instruction is designed to assist students who want to improve their reading, writing, and/or math skills before entering vocational training. Faculty work with students on an individual basis using a variety of instructional materials to help them achieve the desired skill level. Most work can be applied toward high school completion/diploma if the student is registered in adult education through their school district. Computer-assisted instruction is also provided through the Integrated Learning Lab and is designed to supplement classroom activities. Instruction is geared to meet the needs of the most elementary level adults through high school/college reading, writing, and math skills.

Reading	Writing	Mathematics
• Vocabulary Improvement • Spelling • Writing • Reading Comprehension	• Composition (sentence and paragraph) • Grammar, Punctuation, Sentence Structure	• Whole Numbers • Fractions • Decimals • Percentages • Measurements and Formulas • Equations • Ratio and Proportion

Program Entry Requirements: Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 5.0
- Math: 5.0

Estimated Cost for Students: Please visit the following program website for up-to-date cost information: http://www.slcc.edu/sat/programs/basicskills/adultbasiceducation.aspx

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1, 2, 4 Demonstrates reading comprehension, vocabulary, and writing skills on each level of reading assigned.	1 – Acquire Substantive Knowledge
2, 4 Demonstrates ability to write paragraphs and utilize grammar, punctuation, and sentence structure.	2 – Communicate Effectively
3, 4 Demonstrates ability to calculate math operations	3 – Develop Quantitative Literacy
6 Demonstrates ability to work on materials and tests assigned in professional, constructive manner	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy

COURSES & HOURS: Enrollment is determined on an individual basis for one or all of the following subjects:

	CLOCK HRS	SEM	PREREQUISITE
Integrated Learning Lab	64	A	
Mathematics	64	A	
Reading	64	A	

ARMED SERVICES VOCATIONAL APTITUDE (ASVAB) TEST PREPARATION

Division of Applied Technology
South City Campus
General Information: 801-957-7522
Program Information: 801-957-3354
www.slcc.edu/sat/programs/basicskills/ASVABtestprep
Academic Advisor: Hector Cando, 801-957-3112

Program Faculty:
Assistant Professors – Martha Hess

The School of Applied Technology at Salt Lake Community College provides quality career and technical education in a flexible, competency-based format to meet the needs of students who desire low-cost training for high-skill job fields. Programs are responsive to business and industry requirements resulting in appropriate licensure, certification, or evidence of completion. Applied Technology programs specialize in non-credit, open-entry, open-exit instructional delivery. This means students may enroll weekly depending on the school calendar and available seats, and are able to complete courses when proficiency has been demonstrated and evaluated by instructors.

Program Description: Hours vary depending on student needs. This program is designed to assist students in preparing for the Armed Services Vocational Aptitude Battery (ASVAB). The scores on this test battery can qualify candidates for certain jobs and training in the armed forces.

Instruction is concentrated in the ten ASVAB areas:

- General science
- Arithmetic reasoning
- Word knowledge
- Paragraph comprehension
- Numerical operations
- Coding speed
- Auto and shop information
- Mathematics knowledge
- Mechanical comprehension
- Electronics information

Resource materials and instructors are available for individual lessons and practice before taking the test. Reading and test-taking strategies are presented to reduce test anxiety and encourage confidence. Practice tests will be administered to measure the student's readiness for completing the exam.

Program Entry Requirements: Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 5.0
- Math: 5.0

Estimated Cost for Students: Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/basicskills/ASVABtestprep.aspx

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1 Demonstrates knowledge of specific vocational information as defined by the ASVAB test	1 – Acquire Substantive Knowledge
2 Demonstrates knowledge of language arts information required for the ASVAB test	2 – Communicate Effectively
3 Demonstrates knowledge of mathematical skills required for the ASVAB test.	3 – Develop Quantitative Literacy

6 Demonstrates ability to work on materials, tests assigned in professional, constructive manner	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy

COURSES & HOURS: Minimum two to four hours per day, as arranged

COURSE		CLOCK HRS	SEM	PREREQUISITE
KALL 0110	Integrated Learning Lab	64	A	
KABM 0115	Mathematics	64	A	
KABR 0115	Reading	64	A	
KGED 0600	GED Test Preparation	64	A	

Advising Notes:

Students who score 8.0 or higher in comprehension and vocabulary take:

- Math (KABM 0115), SCIL lab (KALL 0110), and KGED 0600

Students who score < 8.0 in comprehension and vocabulary take:

- Math (KABM 0115), Reading (KABR 0115) and SCIL lab (KALL 0110).

In the Reading class, the ASVAB student will work on the ASVAB materials two days a week and the reading program two days per week.

In the GED class, the ASVAB student will work on the ASVAB materials each day.

COLLEGE ACADEMIC READINESS — TARGETED

Division of Applied Technology
South Campus
General Information: 801-957-7522
Program Information: 801-957-3354
www.slcc.edu/sat/programs/basicskills/computerlearningcenter
Academic Advisor: Hector Cando, 801-957-3112

Faculty:
Professor – Shannon Mullins

The School of Applied Technology at Salt Lake Community College provides quality career and technical education in a flexible, competency-based format to meet the needs of students who desire low-cost training for high-skill job fields. Programs are responsive to business and industry requirements resulting in appropriate licensure, certification, or evidence of completion. Applied Technology programs specialize in non-credit, open-entry, open-exit instructional delivery. This means students may enroll weekly depending on the school calendar and available seats, and are able to complete courses when proficiency has been demonstrated and evaluated by instructors.

Description: The College Academic Readiness Center offers individualized self-directed instruction in basic education. Topics include reading, writing, and math. Students are eligible to enroll to improve their skills in preparation for college classes, certificate training programs or the GED.

Entry Requirements: Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE) or CPT ACCUPLACER:

- TABE Reading: 4.0
- TABE Math: 4.0
- CPT Reading: 36
- CPT Math: 26
- CASAS 236 or above for ESL Learners

Estimated Cost for Students: Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/basicskills/computerlearningcenter.aspx

COURSES

KOLL 0200 College Academic Readiness
Individualized Self-directed instruction in:

- Math
- Reading/Writing
- GED Preparation

ENGLISH AS A SECOND LANGUAGE (ESL)

Division of Applied Technology
South City Campus: Taylorsville Campus
General Information: 801-957-7522
Program Information: 801-957-3354
www.slcc.edu/sat/programs/basicskills/esl
Academic Advisor: Philip Anosike, 801-957-3336

Program Faculty:
Associate Professor – Cheryl Shurtleff

Program Description: The School of Applied Technology offers three levels of ESL leading to vocational training or college level classes. No minimum English proficiency is required to enter ESL classes. However, please note listed prerequisites. A placement test is given to determine the level at which a student should begin, which is arranged at the time a student registers for the program. ESL classes include intensive practice in reading, writing, grammar, listening, vocabulary, pronunciation, conversation, and computer-aided instruction. All classes may be taken individually, per student need and ability.

Program Entry Requirements:

CASAS for Reading & Listening/Speaking level placement	CELSA for Grammar/Writing & Language Lab Placement
Pre-Lit: <180	Pre-Lit: 0-10
Level 1 Beginning: 180-200	Level 1 Beginning: 11-20
Level 2 Intermediate: 201-220	Level 2 Intermediate: 21-39
Level 3 Advanced: 221-235	Level 3 Advanced: 40-57
Level 3 (C) Advanced Pre-College: 236-250+	Level 3 (C) Advanced Pre-College: 58-66

Estimated Cost for Students: Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/basicskills/esl.aspx

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
All classes	1 – Acquire Substantive Knowledge
All classes	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
KESL: 0721 (0722), 0480 (0482), 0490 (0492)	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
KESL:-0455 (0452), 0740 (0742)	7 – Develop Computer and Information Literacy

COURSES & HOURS: Full-Time Program Hours: 270 - 300 hours per semester (201 - 225 hours Summer Term)

LEVEL I – BEGINNING ESL

COURSE		CLOCK HRS	SEM	PREREQUISITE
KESL 0110 (0112)	Grammar/Writing	120 (90)	Sp,F (S)	CASAS 180-200; CELSA 11-20
KESL 0120 (0122)	Reading	60 (45)	Sp,F (S)	CASAS 180-200; CELSA 11-20
KESL 0150 (0152)	Listening/Speaking	60 (45)	Sp,F (S)	CASAS 180-200; CELSA 11-20
KESL 0455 (0452)	Language Lab	60 (45)	Sp,F (S)	CASAS 180-200; CELSA 11-20

LEVEL II – INTERMEDIATE ESL

COURSE	CLOCK HRS	SEM	PREREQUISITE

KESL 0210 (0212)	Grammar/Writing	120 (90)	Sp,F (S)	CASAS 201-220; CELSA 21-39
KESL 0220 (0222)	Reading	60 (45)	Sp,F (S)	CASAS 201-220; CELSA 21-39
KESL 0250 (0253)	Listening/Note-take Skills	60 (45)	Sp,F (S)	CASAS 201-220; CELSA 21-39
KESL 0251 (0252)	Listening/Speaking	60 (45)	Sp,F (S)	CASAS 201-220; CELSA 21-39
KESL 0455 (452)	Language Lab	60 (45)	Sp,F (S)	CASAS 201-220; CELSA 21-39

LEVEL III – ADVANCED ESL

COURSE		CLOCK HRS	SEM	PREREQUISITE
KESL 0310 (0312)	Grammar/Writing	120 (90)	Sp,F (S)	CASAS 221-235; CELSA 40-57
KESL 0320 (0322)	Reading	60 (45)	Sp,F (S)	CASAS 221-235; CELSA 40-57
KESL 0350 (353)	Listening/Note-take Skills	60 (45)	Sp,F (S)	CASAS 221-235; CELSA 40-57
KESL 0351 (0352)	Listening/Speaking	60 (45)	Sp,F (S)	CASAS 221-235; CELSA 40-57
KESL 0455 (452)	Language Lab	60 (45)	Sp,F (S)	CASAS 221-235; CELSA 40-57
KESL 0470 (0472)	Vocabulary/Dictionary Skills	60 (45)	Sp,F (S)	CASAS 221-235; CELSA 40-57
KESL 0480 (0482)	Effective Communication Skills	60 (45)	Sp,F (S)	CASAS 221-235; CELSA 40-57
KESL 0490 (0492)	Reading for Career Development	60 (45)	Sp,F (S)	CASAS 221-235; CELSA 40-57

LEVEL III (C) – ADVANCED PRE-COLLEGE ESL

COURSE		CLOCK HRS	SEM	PREREQUISITE
KESL 0711 (0712)	Pre-College Writing	60 (45)	Sp,F (S)	CASAS 236-250+; CELSA 58-66
KESL 0721 (0722)	Pre-College Reading	60 (45)	Sp,F (S)	CASAS 236-250+; CELSA 58-66
KESL 0731 (0732)	Pre-College Listening/Speaking	30 (21)	Sp,F (S)	CASAS 236-250+; CELSA 58-66
KESL 0740 (0742)	Pre-College Computer & Writing Lab	60 (45)	Sp,F (S)	CASAS 236-250+; CELSA 58-66
KESL 0751 (0752)	Pre-College Grammar	60 (45)	Sp,F (S)	CASAS 236-250+; CELSA 58-66

Advising Notes:
INTERNATIONAL STUDENTS (STUDENTS ON A NON-IMMIGRANT VISA) MUST COMPLETE THE INTERNATIONAL STUDENT APPLICATION FOR ADMISSION THROUGH:

International Student Services
Taylorsville Redwood Campus
Student Center, Room 234, 801- 957-4528
http://www.slcc.edu/iss
E-mail: international.services@slcc.edu

Additional Program Notes:
Because all classes are now offered individually, there are no required minimum hours of enrollment (EXCEPT for International Visa students who must attend full-time).

GED TEST PREPARATION

Division of Applied Technology
South City Campus
General Information: 801-957-7522
Program Information: 801-957-3354
www.slcc.edu/sat/programs/basicskills/GEDtestprep
Academic Advisor: Hector Cando 801-957-3112

Program Faculty:
Assistant Professors – Martha Hess

The School of Applied Technology at Salt Lake Community College provides quality career and technical education in a flexible, competency-based format to meet the needs of students who desire low-cost training for high-skill job fields. Programs are responsive to business and industry requirements resulting in appropriate licensure, certification, or evidence of completion. Applied Technology programs specialize in non-credit, open-entry, open-exit instructional delivery. This means students may enroll weekly depending on the school calendar and available seats, and are able to complete courses when proficiency has been demonstrated and evaluated by instructors.

Program Description: The GED Test Preparation course is designed for individual student study to prepare for the GED exam. Resource material is available for individual lessons and practice in the tested areas of mathematics, writing skills, social science, science, and interpreting literature and the arts. Reading and test-taking tips are presented in the course to lessen test anxiety and encourage confidence. Diagnostic and practice tests are administered to measure the student's readiness for the exam. The Integrated Learning Lab also is used to strengthen classroom instruction and to prepare the student for the final GED exam. Three hours of classroom instruction are GED, writing, and math. Additional hours, as needed: math or Integrated Learning Lab. GED tests are administered through SLCC Student Testing Services at the Taylorsville Redwood Campus, (801) 957-4627. All registrations must be completed through the following GED Testing Service site: http://www.gedtestingservice.com/testers/test-on-computer

Program Entry Requirements: Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading 8.0
- Math 5.0
- Vocabulary 8.0

Estimated Cost for Students: Please visit the following program website for up-to-date cost information: http://www.slcc.edu/sat/programs/basicskills/GEDtestprep.aspx

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1, 4 Demonstrates knowledge and skill in Social Studies for GED official test	1 – Acquire Substantive Knowledge
1, 4 Demonstrates knowledge and skills in Science content for GED official test	2 – Communicate Effectively
1, 4 Demonstrates knowledge and skills in Reading/Literature content for GED Official Test	3 – Develop Quantitative Literacy
6 Demonstrates ability to work on materials and tests assigned in professional, constructive manner	4 – Think Critically and Creatively
1, 4 Demonstrates ability to write an essay and utilize grammar, punctuation, and sentence structure for GED Writing official test.	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy

COURSES & HOURS: Minimum two to four hours per day, as arranged

COURSE		Clock Hours	SEM	PREREQUISITE
KALL 0110	Integrated Learning Lab	64	A	
KABM 0115	Mathematics	64	A	
KGED 0500	GED Preparation Language Arts/Writing	64	A	
KGED 0600	GED Test Preparation	64	A	

Additional Program Notes:

Students are enrolled in the KGED program—which includes Math, GED, and Writing, as needed to pass the five tests:

- 3-hr per day (1-hr each): KABM 0115 Math, KGED 0600 GED Test Preparation, and KGED 0500 Language Arts/ Writing, as needed
- 4-hr per day (1-hr each): KABM 01152 Math, KGED 0600 GED Test Preparation, and KGED 0500 Language Arts/Writing and KALL 0110 SCIL lab, as needed.

Schedules vary for evening students and as students pass individual tests.

BIOLOGY – ASSOCIATE OF SCIENCE (AS) 64 credits minimum

Biology Department
Taylorsville Redwood Campus: SI 341
Jordan Campus: JHS 248
General Information and Appointments: (801) 957-4922 or (801) 957-4923
www.slcc.edu/biology
Academic Advisor: SI 209, (801) 957-4858

Program Faculty:
Professors - Jane Rudolph, Arleen Sawitzke, William Tanner
Associate Professor - Tim Beagley, Mary Jane Keleher, Eric Green, Jedediah Doelling, Kristen Taylor, Melissa Tillack
Assistant Professors- Melaney Farr, Jim Blevins, Rebecca Sperry
Instructor - Kathy Bell

Program Description: The Biology Department offers a program leading to an associate of science degree. The required courses in this program will give a student an excellent and broad foundation on which to further his or her studies. Most of the courses in the program have required laboratory components to allow first-hand experience in the study of biology. A laboratory fee is charged for laboratory courses. Upon finishing the requirements for an AS degree in biology, and after acceptance into a major program, a student should be able to obtain a bachelor's degree at a four-year institution with two additional years of study. A full year of inorganic chemistry, organic chemistry, calculus and physics is highly recommended for any student transferring to a four-year institution.

Transfer/Articulation Information: Students completing the AS degree at SLCC through their study of Biology are well prepared to transfer to any of the four year institutions in the Utah System of Higher Education (USHE). This program also prepares students to transfer to public institutions in other states as well as most private colleges and universities.

Program Entry Requirements:
Preparation Note: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. For a student majoring in biology, Calculus I is considered the entry-level math class. The semesters during which courses are taught are listed below. Students should check the semester class schedule for day/evening availability, locations and modifications caused by varying enrollment.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1. Provide students with a complete understanding of the method and practice of science.	1,3,4
2. Provide students with a solid foundation of knowledge in the biological sciences.	1,3,4
3. Prepare majors to further their education in the biological sciences.	1,4,5
4. Provide students with the technical and analytical skills used in modern biological research.	1,3,4
5. Train students to access and critically evaluate information in biology.	2,4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I (QL)	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

DISTRIBUTION AREAS:

Complete the following Biological Science (BS) distribution courses:

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I (BS)	4	A	MATH 0990 w/C grade or better or appropriate Accuplacer score AND RDG 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	Coreq: BIOL 1610

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

Physical Science (PS) general education component is satisfied through pre-major coursework.

REQUIRED COURSES: (23 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BIOL 1620	College Biology II	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 1625
BIOL 1625	College Biology Lab II	0	A	Coreq: BIOL 1620
BIOL 2030	Genetics	4	F, Sp	BIOL 1610 w/C grade or better AND CHEM 1210 w/C grade or better. Coreq: BIOL 2035
BIOL 2035	Genetics Lab	0	F, Sp	Coreq: BIOL 2030
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310

PROGRAM ELECTIVES: (SELECT 8 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
[1]BIOL 2020	Cell Biology	4	F, Sp	BIOL 1610 w/C grade or better. Coreq: BIOL 2025
BIOL 2025	Cell Biology Lab	0	F, Sp	Coreq: BIOL 2020
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
[2]BIOL 2220	Ecology	4	Sp	BIOL 1610 w/C grade or better. Coreq: BIOL 2225

BIOL 2225	Ecology Lab	0	Sp	Coreq: BIOL 2220
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2350	Field Studies in Bio	1-3	TBA	BIOL 1610 w/C grade or better
BIOL 2420	Human Physiology	4	A	BIOL 1610 and CHEM 1110 or CHEM 1210 all w/C grade or better. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320
PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220

[1]BIOL 2020/2025 Cell Biology and Lab are required for students transferring to the University of Utah.
[2]BIOL 2220/2225 Ecology and Lab are required for students transferring to Utah State University.

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
BIOL 1610/1615	4	BIOL 1620/1625	4
CHEM 1210/1215	5	BIOL 2030/2035	4
MATH 1210	4	CHEM 1220/1225	5
DISTRIBUTION	3	DISTRIBUTION	3
Total	**16**	**Total**	**16**

FALL SEMESTER		**SPRING SEMESTER**	
BIOL ELEC	4	BIOL ELEC	4
CHEM 2310/2315	5	ENGL 2010	3
ENGL 1010	3	AI	3
LW	1	STUDENT CHOICE	3
DISTRIBUTION	3	DISTRIBUTION	3
Total	**16**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. For a student majoring in biology, Calculus I is considered the entry-level math class.

DEPARTMENTAL OFFERINGS

COURSE		CR	SEM	PREREQUISITE
BIOL 1010	Intro to Biology	4	A	RDG 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1015
BIOL 1015	Intro to Biology Lab	0	A	Coreq: BIOL 1010
BIOL 1030	Intro Plant Biology	4	F, Sp	RDG 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1035
BIOL 1035	Intro Plant Biology Lab	0	F, Sp	Coreq: BIOL 1030
BIOL 1050	Intro Animal Biology	4	F, Sp	RDG 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1055
BIOL 1055	Intro Animal Biology Lab	0	F, Sp	Coreq: BIOL 1050
BIOL 1070	Intro Marine Biology	4	F, Sp	RGD 0900 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1075
BIOL 1075	Intro Marine Biology Lab	0	F, Sp	Coreq: BIOL 1070
BIOL 1090	Human Biology	3	A	RDG 0900 w/C grade or better or appropriate Accuplacer score
BIOL 1120	Intro Conservation Bio	3	F, Sp	RDG 0900 w/C grade or better or appropriate Accuplacer score
BIOL 1400	Environmental Science	4	F, Sp	Coreq:BIOL 1405
BIOL 1405	Environmental Sci Lab	0	F, Sp	Coreq: BIOL 1400
BIOL 1610	College Biology I	4	A	MATH 0990 w/C grade or better or appropriate Accuplacer score AND RDG 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	Coreq: BIOL 1610

BIOL 1617	College Bio I Workshop	1	A	Coreq: BIOL 1610
BIOL 1620	College Biology II	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 1625
BIOL 1625	College Biology Lab II	0	A	Coreq: BIOL 1620
BIOL 2000	CO-OP Education	2-4	A	Instructor's approval
BIOL 2020	Cell Biology	4	F, Sp	BIOL 1610 w/C grade or better. Coreq: BIOL 2025
BIOL 2025	Cell Biology Lab	0	F, Sp	Coreq: BIOL 2020
BIOL 2030	Genetics	4	F, Sp	BIOL 1610 w/C grade or better AND CHEM 1210 w/C grade or better. Coreq: BIOL 2035
BIOL 2035	Genetics Lab	0	F, Sp	Coreq: BIOL 2030
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
BIOL 2220	Ecology	4	Sp	BIOL 1610 w/C grade or better. Coreq: BIOL 2225
BIOL 2225	Ecology Lab	0	Sp	Coreq: BIOL 2220
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2327	Instr Exp in Human Anat	3	F, Sp	BIOL 2320 w/B grade or better
BIOL 2350	Field Studies in Bio	1-3	TBA	BIOL 1610 w/C grade or better
BIOL 2420	Human Physiology	4	A	BIOL 1610 and CHEM 1110 or CHEM 1210 all w/C grade or better. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420
BIOL 2900	Special Topics in Bio	1-5	TBA	Defined by Instructor
BIOL 2990	Independent Study	1-2	TBA	BIOL 1610 w/C grade or better

BIOMANUFACTURING – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 credits minimum

Biotechnology Department
Jordan Campus, JHS
General Information, (801) 957-4073
Program Information, (801) 957-6450
www.slcc.edu/biomanufacturing
Academic Advisor, JHS 050, (801) 957-6215

Program Faculty:
Instructors – Vivian Ngan-Winward

Program Description: The Biomanufacturing AAS is a comprehensive program that can be completed in four semesters. In addition to the courses required for the Biomanufacturing Diploma, students will be required to master concepts and skills in advanced biomanufacturing-related topics. While some of these topics are required, others are subject to student choice, based on the emphasis of the Biomanufacturing AAS degree selected. This advanced training will expand on the core manufacturing and core science skills covered by the Biomanufacturing Diploma program and will ready the student for entry- to mid- level positions in a biomanufacturing environment.

Currently, three emphases for the Biomanufacturing AAS are available:

- Science & Technology
- Manufacturing Technology
- Lean Production & Six Sigma

The Science & Technology emphasis focuses on the current innovations driving biotechnology product research and development. This would be a good emphasis for students interested in the science and technology aspects of manufactured biotechnology products.

The Manufacturing Technology emphasis focuses on the manufacturing process. This would be a good emphasis for students interested in the mechanics and engineering aspects of biomanufacturing.

The Lean Production & Six Sigma emphasis focuses on the production philosophy that companies must adopt to minimize waste and product defects in order to maximize profit and customer satisfaction. This would be a good emphasis for students interested in the quality assurance and business management aspects of the biomanufacturing industry.

In addition to the General Education and major course requirements, the student will select the set of electives required for his/her chosen AAS emphasis.

Estimated Time to Completion: If student follow the suggested semester schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate introductory knowledge in: • The history of biotechnology and its applications • The local biomanufacturing industry • The blend of sciences involved in biomanufacturing • Biomanufacturing careers • The overall biomanufacturing process – the "big picture" • Basic biomanufacturing-related activities and specific processes • Quality management basics • Case studies of product failures Students will demonstrate foundational knowledge in quality systems and regulations, which govern the biomanufacturing industry: • Evolution of quality systems • Evolution of federal regulations • Generic quality management structure	1 – Substantive Knowledge

• Quality system documents • How to perform inspections • How to qualify vendors • Audits • Non-conformance and corrective / preventative actions • System improvements FOR DIPLOMA AND AAS DEGREES: • Students will demonstrate basic science knowledge in: • General biology (BIOL 1610 / 1615) • Microbiology (BIOL 2060 / 2065) • Elementary chemistry (CHEM 1110 / 1115) • Basic molecular biology techniques (BTEC 2010) FOR AAS DEGREE ONLY: • Students will demonstrate mastery of concepts and skills related to advanced biomanufacturing topics that are specific to their chosen biomanufacturing emphasis	
Students will demonstrate mastery of the following communication-related skills, which are highly applicable to the biomanufacturing setting: • Effective verbal and written communication • Effective documentation • Basic computer skills • Laboratory / workplace safety	2 – Communicate Effectively
Students will demonstrate proper data collection, handling, and analysis skills, particularly for quality assurance and control purposes as well as for troubleshooting and problem-solving	3 – Develop Quantitative Literacies
Students will demonstrate their ability to think critically for a variety of biomanufacturing-related functions: • Application of substantive knowledge • Quality assurance / quality control • Troubleshooting and problem-solving of biomanufacturing processes and/or product issues • Facilitation of system improvements	4 – Think Critically
Students will demonstrate their ability to hold meaningful discussions about biomanufacturing concepts, skills, and related topics with those in the biomanufacturing field as well as those with limited or no knowledge.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0990; within past year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3-4 CREDITS)

Choose an additional three to four credits from one of the following distribution areas.

COURSE	CR

Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (36-38 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BUS 1050	Foundation Business	3	A	ENGL 1010 (may be taken concurrently)
OR				
MKTG 1050	Consumerism (ID)	3	A	
BIOL 1610	College Biology I (BS)	4	A	MATH 0990 w/C grade or better or appropriate Accuplacer score; RDG 0990 w/C grade of better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	Coreq: BIOL 1610
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
CHEM 1110	Elem Chemistry	4	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1115
CHEM 1115	Elem Chemistry Lab	1	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1110
BMAN 1110	Intro Biomanufacturing	3	F, Sp	
BMAN 1120	Basic Bioman Skills	1	F, Sp	BMAN 1110 (can be taken concurrently) or instructor approval
BMAN 1150	Bioman Qual Sys & Reg	3	F, Sp	BMAN 1110 and BMAN 1120 w/C grade or better or instructor approval
BMAN 1180	Bioman Experience	2	F, Sp	BMAN 1110 and BMAN 1120 w/C grade or better or instructor approval
BMAN 2110	Good Manuf Practices	1	F, Sp	BMAN 1150 and BMAN 1180 w/C grade or better or instructor approval
BMAN 2120	Verification and Validation	2	F, Sp	BMAN 1150 and BMAN 1180 w/C grade or better or instructor approval
BMAN 2130	Measurement Fundamentals	2	F, Sp	BMAN 1150 and BMAN 1180 w/C grade or better or instructor approval
BMAN 2910	STUDENTfacturED Internship	2-4	F, Sp	BMAN 1150 and BMAN 1180 w/C grade or better or instructor approval
BTEC 2010	Applied Molecular Biology	4	F, Sp	BTEC 1010 and BTEC 1015 w/C grade or better and BIOL 1610 w/C grade or better

ELECTIVE COURSES: (COMPLETE ONE EMPHASIS AREA)

SCIENCE AND TECHNOLOGY EMPHASIS (11-14 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BTEC 2900	Special Topics	2-5	F, Sp	BTEC 1080, or
ENGR 1050	Intro to Nanotechnology	3	F, Sp	
BTEC 2060	Biotech Instrumentation	3	F, Sp	CHEM 1110 and CHEM 1115 w/C grade or better; BTEC 1080 or BTEC 2100, and BTEC 2010 or BMAN 1150 and BMAN 1180 w/C or better or instructor permission
ONE OF:				
TECH 1010	Technology & the Future	3	F	
BMAN 1130	Bioengr in Society (ID)	3	F,Sp	

MANUFACTING EMPHASIS (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BTEC 2060	Biotech Instrumentation	3	F, Sp	CHEM 1110 and 1115 w/C grade or better; BTEC 1080 or 2100 and BTEC 2010, or BMAN 1150 and 1180 w/C grade or better or instructor permission

EDDT 1040	Intro to AutoCAD	3	A	
EDDT 2340	Manufacturing Processes	2	F	EDDT 1040 or concurrently. Coreq: EDDT 2350
EDDT 2350	Manufac Processes Lab	1	F	Coreq: EDDT 2340
TECH 1030	Complex Devices Simpfd	3	F,Sp	

LEAN PRODUCTION AND SIX SIGMA EMPHASIS (13 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MGT 2040	Business Statistics I	4	A	BUS 1050, MATH 1010 or FIN 1380, CIS 1020
MGT 2700	Prod & Ops Management	3	F	MGT 2340, MGT 2350, MATH 1050 or MATH 1090
MGT 2710	Qual Ctrl & Six Sigma	3	F	MGT 2340 and 2350
ONE OF:				
MGT 2720	Sup Chain Des & Mgmt	3	Sp	MGT 2700
MGT 2730	Lean Production	3	Sp	MGT 2700 and 2710

SAMPLE SCHEDULE – SCIENCE AND TECHNOLOGY EMPHASIS

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	DISTRIBUTION	3-4
MATH 1010	4	HR	3
BUS 1050/MKTG 1050	3	CHEM 1110	4
BMAN 1110	3	CHEM 1115	1
BMAN 1120	1	BMAN 1150	3
ENGR 1050	3	BMAN 1180	2
Total	**17**	**Total**	**16-17**
FALL SEMESTER		**SPRING SEMESTER**	
BMAN 2110	1	BTEC 2010	4
BIOL 1610	4	BTEC 2060	3
BIOL 1615	0	BIOL 2060	4
BMAN 2120	2	BIOL 2065	0
CM	3	BMAN 2130	2
ELEC	3	BTEC 2900	2-5
BMAN 2910	2-4		
Total	**15-17**	**Total**	**15-18**

SAMPLE SCHEDULE – MANUFACTURING TECH EMPHASIS

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	DISTRIBUTION	3-4
MATH 1010	4	BIOL 1610	4
BUS 1050/MKTG 1050	3	BIOL 1615	0
BMAN 1110	3	EDDT 1040	3
BMAN 1120	1	BMAN 1150	3
ENGR 1050	3	BMAN 1180	2
Total	**17**	**Total**	**15-16**
FALL SEMESTER		**SPRING SEMESTER**	
BMAN 2110	1	CM	3
EDDT 2340	2	HR	3
EDDT 2350	1	BIOL 2060	4
CHEM 1110	4	BIOL 2065	0
CHEM 1115	1	BMAN 2120	2
BTEC 2010	4	BMAN 2130	2
BTEC 2060	3		
BMAN 2910	2-4		
Total	**18-20**	**Total**	**14**

SAMPLE SCHEDULE – LEAN PROD & SIX SIGMA EMPHASIS

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	CM	3
MATH 1010	4	BIOL 1610	4

BUS 1050/MKTG 1050	3	BIOL 1615	0
BMAN 1110	3	MGT 2040	4
BMAN 1120	1	BMAN 1150	3
DISTRIBUTION	3-4	BMAN 1180	2
Total	**17-18**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
BMAN 2110	1	BIOL 2060	4
MGT 2700	3	BIOL 2065	0
MGT 2710	3	BTEC 2010	4
CHEM 1110	4	BMAN 2120	2
CHEM 1115	1	BMAN 2130	2
HR	3	ELEC	3
BMAN 2910	2-4		
Total	**17-19**	**Total**	**15**

Advising Notes: Students successfully completing BMAN 1150 will receive a Certificate of Proficiency in Quality Systems and Regulations. This certificate recognizes their mastery of the concepts and skills in this critical and foundational core Biomanufacturing course. Certificates of Proficiency will be awarded for specific skill sets mastered, and can be utilized by employers to assess the skill level of an individual in both the hiring and promotional processes.

- BMAN 1150 Quality Systems & Regulations
- BMAN 2110 Good Manufacturing Practices
- BMAN 2120 Verification & Validation
- BMAN 2130 Measurement Fundamentals
- BTEC 2900 Science & Technology
- BTEC 2060 Equipment Trouble-Shooting
- EDDT 2340 Manufacturing Processes
- EDDT 2350 Manufacturing Processes Lab
- MGT 2710 Quality Control & Six Sigma
- MGT 2720 Supply Chain Design & Management
- MGT 2730 Lean Production
- TECH 1030 Systems Engineering Basics

These certificates recognize mastery of the concepts and skills in these critical and foundational biomanufacturing-relevant courses. Certificates of Proficiency can be utilized by employers to assess the skill level of an individual in both the hiring and promotional processes.

BIOMANUFACTURING – CERTIFICATE OF COMPLETION[CTE] 30 credits minimum

Biotechnology Department
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General Information, (801) 957-4073
Program Information, (801) 957-6450
www.slcc.edu/biomanufacturing
Academic Advisor, JHS 050, (801) 957-6215

Program Faculty:
Instructors – Vivian Ngan-Winward

Program Description: The courses of study available in the Biomanufacturing program provide students with training for entry- to mid- level positions at companies manufacturing biotechnological products. The program's curriculum is driven and supported by the local biomanufacturing industry, and focuses on using innovative practical activities to deliver the hands-on experience students require for the effective mastery of concepts and skills. Classes are taught by faculty with extensive experience in the biotechnology manufacturing industry. The main biomanufacturing sectors represented in the state are companies specializing in medical devices, natural products, pharmaceuticals, and a number of contract testing and research organizations. Local companies are anticipating that their skilled workforce needs will be fulfilled by the well-trained talent produced by the Biomanufacturing Program.

The Biomanufacturing Certificate of Completion is intended to be a short but intensive training program that can be completed in two semesters. Students will be introduced to the history of biotechnology and the local biomanufacturing industry, including the typical manufacturing process and career paths; master specific skills, including effective communication and documentation, workplace safety, quality control activities, and critical thinking; demonstrate their understanding of the various aspects of quality systems and regulations governing the biomanufacturing industry; reinforce concepts and skills learned by participating as a member of team that manufactures a specified quantity of a real biotechnological product. Students desiring additional biomanufacturing training can continue with the Biomanufacturing Diploma and/or the Biomanufacturing AAS tracks.

Estimated Time to Completion: If student follow the suggested semester schedule, tome to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate introductory knowledge in: • The history of biotechnology and its applications • The local biomanufacturing industry • The blend of sciences involved in biomanufacturing • Biomanufacturing careers • The overall biomanufacturing process – the "big picture" • Basic biomanufacturing-related activities and specific processes • Quality management basics • Case studies of product failures Students will demonstrate foundational knowledge in quality systems and regulations, which govern the biomanufacturing industry: • Evolution of quality systems • Evolution of federal regulations • Generic quality management structure • Quality system documents • How to perform inspections • How to qualify vendors • Audits • Non-conformance and corrective / preventative actions • System improvements Students will demonstrate basic science knowledge in: • General biology (BIOL 1610 / 1615)	1 – Substantive Knowledge

• Microbiology (BIOL 2060 / 2065) • Elementary chemistry (CHEM 1110 / 1115) • Basic molecular biology techniques (BTEC 2010) Students will demonstrate mastery of concepts and skills related to advanced biomanufacturing topics that are specific to their chosen biomanufacturing emphasis	
Students will demonstrate mastery of the following communication-related skills, which are highly applicable to the biomanufacturing setting: • Effective verbal and written communication • Effective documentation • Basic computer skills • Laboratory / workplace safety	2 – Communicate Effectively
Students will demonstrate proper data collection, handling, and analysis skills, particularly for quality assurance and control purposes as well as for troubleshooting and problem-solving	3 – Develop Quantitative Literacies
Students will demonstrate their ability to think critically for a variety of biomanufacturing-related functions: • Application of substantive knowledge • Quality assurance / quality control • Troubleshooting and problem-solving of biomanufacturing processes and/or product issues • Facilitation of system improvements	4 – Think Critically
Students will demonstrate their ability to hold meaningful discussions about biomanufacturing concepts, skills, and related topics with those in the biomanufacturing field as well as those with limited or no knowledge.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0990; within past year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3-4 CREDITS)

Choose an additional three to four credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BUS 1050	Foundation Business	3	A	
OR				
MKTG 1050	Consumerism (ID)	3	A	
BMAN 1110	Int Biomanufacturing (ID)	3	F, Sp	
BMAN 1120	Basic Bioman Skills	1	F, Sp	BMAN 1110 (can be taken concurrently) or instructor approval
BMAN 1150	Bioman Qual Sys & Reg	3	F, Sp	BMAN 1110 and BMAN 1120 w/C grade or better or instructor approval
BMAN 1180	Bioman Experience	2	F, Sp	BMAN 1110 and BMAN 1120 w/C grade or better or instructor approval

PROGRAM ELECTIVES: (2-4 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BMAN 2910	STUDENTfacturED Internship	2-4	F, Sp	BMAN 1150 and BMAN 1180 w/C grade or better or instructor permission

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	CM	3
MATH 1010	4	HR	3
BUS 1050	3	DISTRIBUTION	3
OR		BMAN 1150	3
MKTG 1050	3	BMAN 1180	2
BMAN 1110	3	ELEC	2-3
BMAN 1120	1		
Total	**14**	**Total**	**16-18**

Advising Notes: Students successfully completing BMAN 1150 will receive a Certificate of Proficiency in Quality Systems and Regulations. This certificate recognizes their mastery of the concepts and skills in this critical and foundational core Biomanufacturing course. Certificates of Proficiency will be awarded for specific skill sets mastered, and can be utilized by employers to assess the skill level of an individual in both the hiring and promotional processes.

BIOMANUFACTURING – DIPLOMA[CTE] 47-49 credits minimum

Biotechnology Department
Jordan Campus, JHS
General Information, (801) 957-4073
Program Information, (801) 957-6450
www.slcc.edu/biomanufacturing
Academic Advisor, JHS 050, (801) 957-6215

Program Faculty:
Instructors – Vivian Ngan-Winward

Program Description: The courses of study available in the Biomanufacturing program provide students with training for entry- to mid- level positions at companies manufacturing biotechnological products. The program's curriculum is driven and supported by the local biomanufacturing industry, and focuses on using innovative practical activities to deliver the hands-on experience students require for the effective mastery of concepts and skills. Classes are taught by faculty with extensive experience in the biotechnology manufacturing industry. The main biomanufacturing sectors represented in the state are companies specializing in medical devices, natural products, pharmaceuticals, and a number of contract testing and research organizations. Local companies are anticipating that their skilled workforce needs will be fulfilled by the well-trained talent produced by the Biomanufacturing Program.

The Biomanufacturing Diploma is intended to be an intermediate length training program that could be completed in three semesters. In addition to the courses required for the Biomanufacturing Certificate of Completion, students will be required to acquire basic science knowledge in the areas of general biology, microbiology, chemistry, and basic molecular biology techniques that is directly relevant to all functions in a biomanufacturing environment. This additional training will give students a 'bigger picture' appreciation of how the core skills covered by the Biomanufacturing Certificate of Completion fit in with the production requirements and application of manufactured products. Students desiring even more biomanufacturing training can continue with the Biomanufacturing AAS track.

Estimated Time to Completion: If student follow the suggested semester schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate introductory knowledge in: • The history of biotechnology and its applications • The local biomanufacturing industry • The blend of sciences involved in biomanufacturing • Biomanufacturing careers • The overall biomanufacturing process – the "big picture" • Basic biomanufacturing-related activities and specific processes • Quality management basics • Case studies of product failures Students will demonstrate foundational knowledge in quality systems and regulations, which govern the biomanufacturing industry: • Evolution of quality systems • Evolution of federal regulations • Generic quality management structure • Quality system documents • How to perform inspections • How to qualify vendors • Audits • Non-conformance and corrective / preventative actions • System improvements Students will demonstrate basic science knowledge in: • General biology (BIOL 1610 / 1615) • Microbiology (BIOL 2060 / 2065)	1 – Substantive Knowledge

• Elementary chemistry (CHEM 1110 / 1115) • Basic molecular biology techniques (BTEC 2010) Students will demonstrate mastery of concepts and skills related to advanced biomanufacturing topics that are specific to their chosen biomanufacturing emphasis	
Students will demonstrate mastery of the following communication-related skills, which are highly applicable to the biomanufacturing setting: • Effective verbal and written communication • Effective documentation • Basic computer skills • Laboratory / workplace safety	2 – Communicate Effectively
Students will demonstrate proper data collection, handling, and analysis skills, particularly for quality assurance and control purposes as well as for troubleshooting and problem-solving	3 – Develop Quantitative Literacies
Students will demonstrate their ability to think critically for a variety of biomanufacturing-related functions: • Application of substantive knowledge • Quality assurance / quality control • Troubleshooting and problem-solving of biomanufacturing processes and/or product issues • Facilitation of system improvements	4 – Think Critically
Students will demonstrate their ability to hold meaningful discussions about biomanufacturing concepts, skills, and related topics with those in the biomanufacturing field as well as those with limited or no knowledge.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0990; within past year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3-4 CREDITS)

Choose an additional three to four credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (31-33 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BUS 1050	Foundation Business	3	A	
OR				
MKTG 1050	Consumerism (ID)	3	A	
BMAN 1110	Int Biomanufacturing (ID)	3	F, Sp	
BMAN 1120	Basic Bioman Skills	1	F, Sp	BMAN 1110 (can be taken concurrently) or instructor approval
BMAN 1150	Bioman Qual Sys & Reg	3	F, Sp	BMAN 1110 and BMAN 1120 w/C grade or better or instructor approval
BMAN 1180	Bioman Experience	2	F, Sp	BMAN 1110 and BMAN 1120 w/C grade or better or instructor approval
BMAN 2910	STUDENTfacturED Internship	2-4	F, Sp	BMAN 1150 nd BMAN 1180 w/C grade or better or instructor approval
BTEC 2010	Applied Molecular Biol	4	F, Sp	BTEC 1010 and 1015, or BMAN 1120; and BIOL 1610 w/C grade or better
BIOL 1610	College Biology I	4	A	MATH 0990 w/C grade or better or appropriate Accuplacer score; RDG 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	Coreq: BIOL 1610
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
CHEM 1110	Elem Chemistry	4	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1115
CHEM 1115	Elem Chemistry Lab	1	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1110

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	CM	3
MATH 1010	4	BIOL 1610	4
BUS 1050	3	BIOL 1615	0
OR		BMAN 1150	3
MKTG 1050	3	BMAN 1180	2
BMAN 1110	3	HR	3
BMAN 1120	1		
DISTRIBUTION	3		
Total	**17**	**Total**	**15**

FALL SEMESTER	
BIOL 2060	4
BIOL 2065	0
CHEM 1110	4
CHEM 1115	1
BTEC 2010	4
BMAN 2910	2-4
Total	**15-17**

Advising Notes: Students successfully completing BMAN 1150 will receive a Certificate of Proficiency in Quality Systems and Regulations. This certificate recognizes their mastery of the concepts and skills in this critical and foundational core Biomanufacturing course. Certificates of Proficiency will be awarded for specific skill sets mastered, and can be utilized by employers to assess the skill level of an individual in both the hiring and promotional processes.

BIOTECHNOLOGY – ASSOCIATE OF SCIENCE (AS) 60 credits minimum

Biotechnology Department
Jordan Campus, JHS
General Information, (801) 957-4073
Program Information, (801) 957-6450
www.slcc.edu/biotech
Academic Advisor, JHS 050, (801) 957-6215

Program Faculty:
Assistant Professors: Charles Rettberg, Jean Bower

Program Description: The Biotechnology course of study provides students with training that prepares them for entry- to mid-level positions in research oriented environments. The program's curriculum is driven and supported by the local Biotechnology industry, and focuses on using innovative practical activities to deliver the hands-on experience students require for the effective mastery of concepts and skills. Classes are taught by faculty with extensive experience in research settings. Students may choose one of two degree paths depending on individual goals and expectations.

The degree includes a full complement of general education and skills-based biotechnology courses. The program provides students with a broad foundation upon which to continue their studies in the sciences. The A.S. degree is primarily designed to transfer to Utah Valley University's (UVU) baccalaureate program in Biotechnology. Students may choose to take upper division classes at UVU's home campus in Orem, Utah, or they may choose to take upper division coursework as evening classes at the SLCC Jordan Campus. Students should note that other lower division coursework beyond what is listed in the A.S. degree will be required to complete the baccalaureate program in Biotechnology at UVU.

Transfer/Articulation Information: Students completing the A.S. in Biotechnology at SLCC may consider transfer to science degree programs other than Biotechnology. Students should be aware that the full complement of their General Education courses and many of their major course requirements will transfer to any four year institution in the Utah System of Higher Education. However, Biotechnology courses are only articulated with Utah Valley University at this time. Consult your academic advisor for more information.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1. Students will develop a general understanding of the Biotechnology field that includes: • The history of biotechnology • Applications of Biotechnology • Biotechnology careers • Case studies of biotechnology products and innovations	1,2,5
2. Students will develop technological and analytical skills that are applicable in the field of Biotechnology.	1,2,3,4,5
3. Students will develop a solid foundation of knowledge on which to further their education in the sciences.	1,4,5
4. Students will develop critical thinking skills used in applying the scientific method to problems.	1,4,5
5. Students will develop essential communication skills necessary in working with complex information and concepts.	1,2,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Complete the following Biological Science (BS) distribution courses:

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	MATH 0990 w/C grade or better or appropriate Accuplacer score AND RDG 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	Coreq: BIOL 1610

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

NOTE: Physical Science (PS) general education component is satisfied through pre-major coursework.

REQUIRED COURSES: (25 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BTEC 1010	Intro to Biotechnology	3	F,Sp	MATH and RDG 0990 w/C grade or better or equivalent placement scores. Coreq: BTEC 1015
BTEC 1015	Intro to Biotechnology Lab	1	F,Sp	MATH and RDG 0990 w/C grade or better or equivalent placement scores. Coreq: BTEC 1010
BTEC 2010	Applied Molecular Biology	3	F,Sp	BTEC 1010 and 1015 w/C grade or better and recommended BIOL 1610 w/C grade or better
BTEC 2020	Biomolec Sep and Analysis	3	F	BTEC 2010 w/C grade or better
BTEC 2030	Cell Culture	2	F, Sp	BTEC 2010 w/C grade or better
BTEC 2040	Advanced Molec Methods	3	Sp	BTEC 2010 w/C grade or better
CHEM 1210	General Chemistry I	4	A	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	General Chemistry I Lab	1	A	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1210
CHEM 1220	General Chemistry II	4	A	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	General Chemistry II Lab	1	A	CHEM 1210. Recommended coreq: CHEM 1220

PROGRAM ELECTIVES: (SELECT 2-4 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
BTEC 1060	NucAcidProtBchm	2	Sp	BTEC 1010 and BIOL 1610 w/C grade or better
BTEC 1080	Biotechnology Exp	3	A	BTEC 1010 and 1015 w/C grade or better
BMAN 1150	Bman Qlty Sys Reg	3	F,Sp	BMAN 1110 and 1120 w/C grade or better
BMAN 1180	Bioman Experience	4	F,Sp	BMAN 1110 and 1120 w/C grade or better
BMAN 2110	Good Manufact	1	F,Sp	BMAN 1150 and 1180 w/C grade or better or instructor approval
BMAN 2120	Verification & Valid	2	F,Sp	BMAN 1150 and 1180 w/C grade or better or instructors approval

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
BTEC 1010	3	BTEC 2010	3
BTEC 1015	1	BTEC ELEC	3
ENGL 1010	3	ENGL 2010	3
MATH 1050	4	DISTRIBUTION (2)	6
BIOL 1610/1615	4		
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
BTEC 2020	3	BTEC 2030	2
CHEM 1210	4	BTEC 2040	3
CHEM 1215	1	CHEM 1220	4
SC	3	CHEM 1225	1
AI	3	DISTRIBUTION (2)	6
LW	1		
Total	**15**	**Total**	**16**

Advising Notes: Upper division courses may be taken at the SLCC Jordan Campus with Utah Valley University at any time that the prerequisites for those courses have been satisfied. However, students should note that other lower division classes, beyond those listed in the Biotechnology AS degree, are required for the Bachelor of Science degree at Utah Valley University and can be taken at SLCC.

The following list indicates the additional courses required at the lower division level to earn a Bachelor's of Science degree from UVU:

COURSE		CR	SEM	PREREQUISITE
MATH 2040	Statistics	4	F	Within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
CHEM 2310	Organic Chem I	4	A	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315.
CHEM 2315	Organic Chem I Lab	1	A	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	A	CHEM 2310w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem II Lab	1	A	CHEM 2310w/C grade or better. Recommended coreq: CHEM 2320
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Phys Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
PHYS 2020	College Phys II	4	A	PHYS 2010. Recommended coreq: PHYS 2025
PHYS 2025	College Phys Lab II	1	A	PHYS 2010. Recommended coreq: PHYS 2020

BIOTECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 62 credits minimum

Biotechnology Department
Jordan Campus, JHS
General Information, (801) 957-4073
Program Information, (801) 957-6450
www.slcc.edu/biotech
Academic Advisor, JHS 050, (801) 957-6215

Program Faculty:
Assistant Professors: Charles Rettberg, Jean Bower

Program Description: The Biotechnology course of study provides students with training that prepares them for entry- to mid-level positions in research oriented environments. The program's curriculum is driven and supported by the local Biotechnology industry, and focuses on using innovative practical activities to deliver the hands-on experience students require for the effective mastery of concepts and skills. Classes are taught by faculty with extensive experience in research settings. Students may choose one of two degree paths depending on individual goals and expectations.

This degree requires students to acquire comprehensive skills and knowledge relative to a wide range of biotechnology activities. Students completing the A.A.S. degree will be well positioned for entry to mid-level employment in a life science laboratory. Many of the courses obtained through the AAS degree can be transferred to Utah Valley University's baccalaureate degree in Biotechnology should students wish to continue their studies at a higher level. See the advising notes below for more information.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1. Students will develop a general understanding of the Biotechnology field that includes: • The history of biotechnology • Applications of Biotechnology • Biotechnology careers • Case studies of biotechnology products and innovations	1,2,5
2. Students will develop technological and analytical skills that are applicable in the field of Biotechnology.	1,2,3,4,5
3. Students will develop a solid foundation of knowledge on which to further their education in the sciences.	1,4,5
4. Students will develop critical thinking skills used in applying the scientific method to problems.	1,4,5
5. Students will develop essential communication skills necessary in working with complex information and concepts.	1,2,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0990; within last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATIONS (CM)
Any approved CM course

HUMAN RELATIONS (HR)
Any approved HR course

DISTRIBUTION AREAS:
Choose one course (three credit hours) from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (47 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BTEC 1010	Intro to Biotechnology	3	F,Sp	MATH and RDG 0990 w/C grade or better or equivalent placement scores. Coreq: BTEC 1015
BTEC 1015	Intro to Biotechnology Lab	1	F,Sp	MATH and RDG 0990 w/C grade or better or equivalent placement scores. Coreq: BTEC 1010
BTEC 1030	Biotechnology Seminar	2	Sp	BTEC 1010 and 1015 w/C grade or better
BTEC 1060	Nuc Acid Prot Bchm	2	Sp	BTEC 1010 and BIOL 1610 w/C grade or better
BTEC 1080	Biotechnology Experience	3	A	BTEC 1010 and 1015 w/C grade or better
BTEC 2010	Applied Molecular Biology	3	F,Sp	BTEC 1010 and 1015 w/C grade or better and recommended BIOL 1610 w/C grade or better
BTEC 2020	Biomolecular Sep & Analysis	3	F	BTEC 2010 w/C grade or better
BTEC 2030	Cell Culture	2	F, Sp	BTEC 2010 w/C grade or better
BTEC 2040	Advanced Molec Methods	3	Sp	BTEC 2010 w/C grade or better
BTEC 2050	Bioinformatics	2	F	BTEC 2010 w/C grade or better
BTEC 2100	Biotechnology Research	4	A	BTEC 1080 w/C grade or better or instructor permission
BMAN 1150	Bioman Quality Systems	3	F, Sp	BMAN 1110 and 1120 w/C grade or better or instructor permission
BMAN 2110	Good Manufacturing Proc	1	F, Sp	BMAN 1150 and 1180 w/C grade or better or instructor permission
BMAN 2120	Verification & Validation	2	F, Sp	BMAN 1150 and 1180 w/C grade or better or instructor permission
BIOL 1610	College Biology I	4	A	MATH 0990 w/C grade or better or appropriate Accuplacer score, RDG 0990 w/C grade ot hetter or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	Coreq: BIOL 1610
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2065
CHEM 1110	Elementary Chemistry	4	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1115
CHEM 1115	Elementary Chemistry Lab	1	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1110

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
BTEC 1010	3	BTEC 1080	3
BTEC 1015	1	BTEC 1060	2
ENGL 1010	3	BTEC 2010	3
MATH 1010	4	CHEM 1110	4
BIOL 1610/1615	4	CHEM 1115	1
		BTEC 1030	2
Total	**15**	**Total**	**15**

FALL SEMESTER		SPRING SEMESTER	
BTEC 2020	3	BTEC 2040	3
BMAN 1150	3	BTEC 2100	4
BIOL 2060/2065	4	BMAN 2110	1
BTEC 2050	2	BMAN 2120	2
BTEC 2030	2	DISTRIBUTION	3
HR	3	CM	3
Total	**17**	**Total**	**16**

Advising Notes: Students considering the possibility of transferring to a Bachelor's degree program at a future date should strongly consider the following course options:

- CHEM 1210/1215 in place of CHEM 1110/1115 since this course will transfer
- COMM 1010 or COMM 1020 for the Communications elective since either class will satisfy the Student Choice elective as an Intensive course
- LE 1220 for the Human Relations elective since this class will also satisfy the Social Science Distribution requirement of General Education electives

BUSINESS – ASSOCIATE OF ARTS (AA) 64 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/businessmanagement
Academic Advisor, BB 132, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Edward Engh
Instructors – Don Skousen, Eric LeDuc

Program Description: Business Associate of Arts and Business Associate of Science degrees are designed as transfer degrees to business schools at four-year institutions within the Utah System of Higher Education. Requirements at four-year colleges and universities are subject to change; ongoing planning is essential. Students interested in degrees designed for business employment should review the Certificate and Associate of Applied Science degrees.

The Associate of Arts degree requires the study of a foreign language. Obtain initial general advising from any General Academic Advisor and advanced and transfer information through the Business Academic Advisor, Taylorsville Redwood Campus, Business Building, room 132A.

PREPARATION NOTE

Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. SLCC may waive any class in the preparatory skills if students can demonstrate equivalent skills.

PREREQUISITES

It is the student's responsibility to examine each course description for details of prerequisite classes. The student must satisfy those prerequisites before she or he may take the designated class.

COMPUTER PROFICIENCY

- CIS 1020 is a recommended prerequisite for CSIS 2010 and a prerequisite for MGT 2040. Students have the option to take the Challenge Exam for CIS 1020 and must pass each section of the test with a score of 80% or higher. Students who wish to take the challenge exam for CIS 1020 should review the information at www.slcc.edu/csis/CIS1020-challenge-exam.aspx.
- Once the student passes the exam SLCC posts a "P" to the transcript and awards the credit. This P is acceptable at all Utah four-year colleges and universities.

ELECTIVE OPTIONS

These are based on requirements of intended institution of transfer. Contact any general academic advisor or the business academic advisor for more information.

CLASS AVAILABILITY

The semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

Transfer/Articulation Information: Course articulation agreements exist with Brigham Young University, College of Eastern Utah, Dixie State University, Southern Utah University, Snow College, University of Utah, Utah State University, Utah Valley University, Weber State University and Westminster College. Agreements are available in Business Building, room 132, or Student Center room 240 in the Transfer Center files or with academic advisors at other campuses. Transfer planning is essential. Advisors are available in Business Building, Room BB 132-A, or Student Center Room 240, or advising at other SLCC campuses. Students who will major in accounting should consider completing the accounting courses just prior to transfer so they are ready for the junior level accounting requirements.

BRIGHAM YOUNG UNIVERSITY - Pre-Accounting Majors

Accounting at BYU is a limited enrollment, competitive admission major, accepting students once a year for fall only. Prerequisites--ACC 200 or 201; ACC 310 or 202; MCOM 320; ISYS 201; ISYS 100 & 101 (CIS 2010)--must be completed with the grades posted before applying to the accounting program. ACCT 2010 (BYU ACC 201) and ACCT 2020 (ACC 202) must have a minimum grade of 'B' or better. All prerequisite transfer grades are discounted .3 (e.g., A to A-). Transfer students can increase their acceptance possibilities by (1) taking BYU's ACC 310 and (2) complete one semester of BYU courses. These courses may also be completed at the BYU Salt Lake Center. The minimum GPA to apply is 3.0, but the typical GPA for admissions to accounting is 3.8. Rolling admissions begins Nov. 1 of the preceding year. (Rolling admissions means that the accounting committee sets a very high acceptance standard and any students who meets that acceptance standard is accepted prior to the final application deadline the last working day of June. All other applying students are placed in the standard ranking list and acceptance is determined under usual acceptance—typically in July.)
http://marriottschool.byu.edu/bsacc/currentstudents/flowcharts

BRIGHAM YOUNG UNIVERSITY - Pre-Information Systems Majors
Information Systems (ISYS) at BYU is a limited enrollment, competitive admission major, accepting students once a year for fall only. Prerequisites-- BYU's ISYS 201, ISYS 303; ACC 200 or 201 (ACCT 2010); MCOM 320; ISYS 100 & 101(CIS 2010)--must be completed with the grades posted before applying to the ISYS program. All prerequisite transfer grades are discounted .3 (e.g., A to A-).The minimum GPA is 3.0 but the typical GPA for admissions is 3.5 to 3.7. The final application deadline is the last working day of June. It is recommended that transfer students complete one semester of BYU courses before applying.
http://marriottschool.byu.edu/bsisys/flowcharts

BRIGHAM YOUNG UNIVERSITY - Pre-Management Majors
Management at BYU is a limited enrollment, competitive admission major, accepting students fall, winter, and spring semesters (spring semester at SLCC is called winter semester at BYU). Prerequisites—MATH 119; STAT 121; ECON 110; ACC 201 (ACCT 2010); ISYS 100 & 101 (CIS 2010)--must be completed with the grades posted before applying to the accounting program. Grades for BUS 1100 (MATH 119), MGT 2040 (STAT 121), ECON 2010 & ECON 2020 (ECON 110) are discounted .3 (A to A-). Overall GPA and last 30 hrs GPA are not discounted. The minimum GPA to apply is 3.0 but the typical GPA of recently admitted students is a 3.7 (Prerequisites GPA +Overall GPA +Last 30 hours GPA=Average GPA). It is strongly recommended that transfer students complete one semester of BYU courses before applying.
http://marriottschool.byu.edu/bsmgt/current/flowcharts

DIXIE STATE UNIVERSITY
The minimum pre-business GPA is 2.5. No pre-business courses below a grade of "C-" are accepted. CIS 1200 (Computer Literacy) and CIS 2010 (Business Computer Proficiency) with a "B-" grade or better clear the computer proficiency requirement. DSC accepts an Interpersonal Communication or Public Speaking course to fulfill its Communication pre-business requirement. DSC highly recommends that interested Business/Accounting students meet with a DSC Business advisor before transferring for additional information and requirements. Go to www.dixie.edu/business for advisor contact information.

SOUTHERN UTAH UNIVERSITY
CIS 1020 with a B grade or better clears the computer proficiency requirement to enter upper-division course work. CIS 2010 is required as of fall 2007. Business course requirements that can be taken as part of General Education: PSY1010 (SS) or SOC 1010 (SS). The minimum GPA requirements are a 2.5+ in the pre-business and upper-division courses, including all transfer work.

UNIVERSITY OF UTAH
The David Eccles School of Business requires a 3.2 total and business GPA for admission to Upper Division and a minimum grade of a C- or higher in pre-business courses. GPAs of 3.0 to 3.19 are subject to Admission Committee review. Applications are accepted on a rolling basis and transfer students complete with pre-business courses or in progress with their final pre-business courses are encouraged to apply at http://undergrad.business.utah.edu/form/application-upper-division-status prior to attending the University of Utah. All students admitted to Upper Division are automatically assigned to the Business Administration degree program. Admission to other undergraduate majors in the David Eccles School of Business requires a separate application, prerequisite courses and subsequent review. For more information on transferring and specific major requirements, see: http://business.utah.edu/advising and students should meet with a business advisor once admitted to the University of Utah.

UTAH STATE UNIVERSITY
SLCC Business AS/AA transfer students with a GPA of 3.5 or higher will be automatically accepted into USU's College of Business. Students with a GPA below 3.5 must complete the prerequisites and apply to the Huntsman School of Business. The prerequisites include: a 'C' grade or better in Microeconomics, Business Statistics, and Intermediate Writing (ENGL 2010). Students who plan to major in Accounting must have a grade of 'B' or better in Accounting must have a grade of 'B' or better in

Accounting 2010. The Huntsman School of Business also requires Business Communication (BUS 2200) which can be completed in addition to or as a part of the Business AS or AA degree. A GPA of 3.0 is usually the lower end of applicants who are accepted.

Students may pursue a degree in Business Administration or in Management Information Systems (MIS) through USU Salt Lake located at 2500 South State Street in Salt Lake City. The minimum required GPA is 2.67. For further information, call (385) 646-5570.

UTAH VALLEY UNIVERSITY
The overall minimum GPA is a 2.5. No business courses below a grade of 'C-' are accepted. CIS 1020 and CIS 2010 with a 'B' grade or better clear the computer proficiency requirement. UVU also requires SLCC's BUS 2200 Business Communication.

Utah Valley University (UVU) offers an online Bachelor of Science degree in Hospitality Management. Students completing an AS/AA in Business at SLCC will satisfy their general education and some lower division discipline requirements for the Hospitality Management Program. Various upper and lower division courses in Hospitality Management will be available online through UVU. Transfer recommendations: Take MATH 1050, BUS 2200, CHEF 1120 & CHEF 1210. www.uvu.edu/woodbury/academic/hospitality/index.html.

WEBER STATE UNIVERSITY
CIS 2010 with a 'B' grade (80%) or better to clear the computer proficiency requirement to enter upper-division course work. COMM 1020 recommended. Before applying for admission to the Goddard School of Business students must attend at least one semester at WSU. They must have an overall GPA of 2.5 or higher. An overall GPA of 2.5 and a grade of C- or higher is required for ACCT 2010, ECON 2010, ECON 2020, and MGT 2040. Students must also have a Transfer Summary validation completed. Request this from the GSBE Academic Advising Center at WSU.

WESTMINSTER COLLEGE
COMM 1020 is required for graduation. Westminster now offers business B.S. degrees which do not require foreign language. The business B.A. degrees require 2-3 semesters of one foreign language (see advisor). ENGL 2100 is not accepted at Westminster toward the English general education requirement. Minimum GPA of 2.3 is required. The general education diversity (DV) class has to be taken at Westminster. Check with an advisor to see about any SLCC class that might articulate for a DV at Westminster. However none of the DV classes at SLCC will count for this requirement.

Westminster College also offers an online Bachelors of Business Administration degree. Requirements to get into this program are an Associate degree in any subject matter and six years work experience.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: All associate degree business programs at SLCC are accredited by the Accreditation Council for Business Schools and Programs (ACBSP). Accreditation represents the achievement of meeting high national standards established for associate degree granting business programs and facilitates transfer of credits to four year universities and colleges.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Understand fundamentals of business and the relationship of business to society.	1 – Acquire Substantive Knowledge
2.1 Communicate effectively in writing. 2.2 Communicate effectively verbally. 2.3 Communicate effectively numerically.	2 – Communicate Effectively
3.1 Choose and perform appropriate analyses for quantitative and qualitative data.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1 Engage in principled dialogue on civic issues involving local business.	5 – Engage Civivally
6.1 Understand the ethical considerations that are inherently involved in business.	6 – Work Professionally
7.1 Proficiently use computer technology.	7 – Develop Computer & Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra (QL)	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1090	College Alg Bus (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 1 COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) CHOOSE 1 COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communications	3	A	Engl 1010 w/C grade or better
COMM 1010	Elem Effect Communication	3	A	
COMM 1020	Prin Public Speaking	3	A	

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: We recommended students take:
BUS 1050 as Interdisciplinary (ID) distribution course
ECON 2020 as Social Science (SS) distribution course for University of Utah
PSY 1010 or SOC 1010 as Social Science (SS) distribution course for Utah State University

LANGUAGE (LN) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
LANG 1020	(LN)	5	A	LANG 1010

NOTE: LANG prefix does not exist; the LANG prefix would be replaced by the prefix for the individual language chosen: ARB, CHI, FRN, GER, ITL, JPN, NAV, POR, RUS, SAM, SPN, TNG

Students who want to earn a BA degree after transfer from SLCC are advised to take a language that the chosen school offers as upper-division to meet the BA language requirement. Not all colleges and universities offer all languages; consult with the chosen school's language department.

REQUIRED COURSES: (19-21 CREDITS)

COMPLETE EITHER OPTION 1 OR 2:

OPTION 1

COURSE		CR	SEM	PREREQUISITE

ACCT 1110	Financial Accounting I	3	A	
AND				
ACCT 1120	Financial Accounting II	3	A	ACCT 1110
OR				
OPTION 2				
COURSE		**CR**	**SEM**	**PREREQUISITE**
ACCT 2010	Survey Financial Accounting	3	A	

NOTE:

- All Utah 4-year colleges accept ACCT 1110 and ACCT 1120 or ACCT 2010 for Financial Accounting.

COMPLETE ALL OF THE FOLLOWING:

COURSE		CR	SEM	PREREQUISITE
ACCT 2020	Managerial Acct	3	A	ACCT 1110 or ACCT 2010; Recommended CSIS 2010
BUS 1050	Foundations of Bus	3	A	ENGL 1010 (may be taken concurrently)
CSIS 2010	Bus Cmp Prof Database	3	A	CIS 1020 or challenge exam
ECON 2010	Microeconomics	3	A	
MGT 2040	Bus Statistics I	4	A	MATH 1010 or FIN 1380, and CIS 1020

ELECTIVE COURSES: (COMPLETE AT LEAST 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
BUS 1010	Introduction to Business	3	A	
BUS 1040	Ethics at Work	3	F/Sp	
BUS 1100	Calculus for Bus	3	A	MATH 1050 or MATH 1090
BUS 2200	Bus Communications	3	A	ENGL 1010 w/C or better
ECON 2020	Macroeconomics	3	A	
MGT 1100	Small Bus Management	3	F/Sp	
MGT 1600	Management Essentials	3	A	
MGT 2020	Entrepreneurship	3	F/Sp	MKTG 1030, and ACCT 1210
MGT 2050	Legal Environ of Bus	3	A	Recommended BUS 1050
MGT 2070	Human Resource Mgmt	3	F	
MGT 2080	Employment Law	3	Sp	
MGT 2600	International Trade/Bus	3	Sp	or ECON 2020
MGT 2950	Entrepreneurship Forum	1	A	
MGT 2990	Current Topics Mgmt	1	TBA	Variable, contact department

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ACCT 1110	3	(ACCT 1120)	(3)
OR		ACCT 2020	3
ACCT 2010	3	ENGL 2010	3
COMM 1020	3	AI	3
ENGL 1010	3	ELEC	3
MATH 1050	4	DISTRIBUTION (2)	6
OR			
MATH 1090	3		
LW	1		
Total	**13-14**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 2010	3	MGT 2040	4
ECON 2010	3	MGT 2990	1
LANG 1020	5	DISTRIBUTION (3)	9
ELEC	3		
DISTRIBUTION	3		
Total	**17**	**Total**	**14**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. SLCC may waive any class in the preparatory skills if students can demonstrate equivalent skills. It is the student's responsibility to:

- examine each course description for details of prerequisite classes.
- satisfy those prerequisites before taking the designated class.

Students may take additional transfer requirements beyond the AA/AS degrees at SLCC before transferring to Utah State University, Southern Utah University and Utah Valley University.

BUSINESS – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/businessmanagement
Academic Advisor, BB 132, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Edward Engh
Instructors – Don Skousen, Eric LeDuc

Program Description: Business Associate of Arts and Business Associate of Science degrees are designed as transfer degrees to business schools at four-year institutions within the Utah System of Higher Education. Requirements at four-year colleges and universities are subject to change; ongoing planning is essential. Students interested in degrees designed for business employment should review the Certificate and Associate of Applied Science degrees.

The Associate of Arts degree requires the study of a foreign language. Obtain initial general advising from any General Academic Advisor and advanced and transfer information through the Business Academic Advisor, Taylorsville Redwood Campus, Business Building, room 132A.

PREPARATION NOTE

Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. SLCC may waive any class in the preparatory skills if students can demonstrate equivalent skills.

PREREQUISITES

It is the student's responsibility to examine each course description for details of prerequisite classes. The student must satisfy those prerequisites before she or he may take the designated class.

COMPUTER PROFICIENCY

- CIS 1020 is a recommended prerequisite for CSIS 2010 and a prerequisite for MGT 2040. Students have the option to take the Challenge Exam for CIS 1020 and must pass each section of the test with a score of 80% or higher. Students who wish to take the challenge exam for CIS 1020 should review the information at www.slcc.edu/csis/CIS1020-challenge-exam.aspx.
- Once the student passes the exam SLCC posts a "P" to the transcript and awards the credit. This P is acceptable at all Utah four-year colleges and universities.

ELECTIVE OPTIONS

These are based on requirements of intended institution of transfer. Contact any general academic advisor or the business academic advisor for more information.

CLASS AVAILABILITY

The semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

Transfer/Articulation Information: Course articulation agreements exist with Brigham Young University, College of Eastern Utah, Dixie State University, Southern Utah University, Snow College, University of Utah, Utah State University, Utah Valley University, Weber State University and Westminster College. Agreements are available in Business Building, room 132, or Student Center room 240 in the Transfer Center files or with academic advisors at other campuses. Transfer planning is essential. Advisors are available in Business Building, Room BB 132-A, or Student Center Room 240, or advising at other SLCC campuses. Students who will major in accounting should consider completing the accounting courses just prior to transfer so they are ready for the junior level accounting requirements.

BRIGHAM YOUNG UNIVERSITY - Pre-Accounting Majors

Accounting at BYU is a limited enrollment, competitive admission major, accepting students once a year for fall only. Prerequisites--ACC 200 or 201; ACC 310 or 202; MCOM 320; ISYS 201; ISYS 100 & 101 (CIS 2010)--must be completed with the grades posted before applying to the accounting program. ACCT 2010 (BYU ACC 201) and ACCT 2020 (ACC 202) must have a minimum grade of 'B' or better. All prerequisite transfer grades are discounted .3 (e.g., A to A-). Transfer students can increase their acceptance possibilities by (1) taking BYU's ACC 310 and (2) complete one semester of BYU courses. These courses may also be completed at the BYU Salt Lake Center. The minimum GPA to apply is 3.0, but the typical GPA for admissions to accounting is 3.8. Rolling admissions begins Nov. 1 of the preceding year. (Rolling admissions means that the accounting committee sets a very high acceptance standard and any students who meets that acceptance standard is accepted prior to the final application deadline the last working day of June. All other applying students are placed in the standard ranking list and acceptance is determined under usual acceptance—typically in July.)
http://marriottschool.byu.edu/bsacc/currentstudents/flowcharts

BRIGHAM YOUNG UNIVERSITY - Pre-Information Systems Majors
Information Systems (ISYS) at BYU is a limited enrollment, competitive admission major, accepting students once a year for fall only. Prerequisites-- BYU's ISYS 201, ISYS 303; ACC 200 or 201 (ACCT 2010); MCOM 320; ISYS 100 & 101(CIS 2010)--must be completed with the grades posted before applying to the ISYS program. All prerequisite transfer grades are discounted .3 (e.g., A to A-).The minimum GPA is 3.0 but the typical GPA for admissions is 3.5 to 3.7. The final application deadline is the last working day of June. It is recommended that transfer students complete one semester of BYU courses before applying.
http://marriottschool.byu.edu/bsisys/flowcharts

BRIGHAM YOUNG UNIVERSITY - Pre-Management Majors
Management at BYU is a limited enrollment, competitive admission major, accepting students fall, winter, and spring semesters (spring semester at SLCC is called winter semester at BYU). Prerequisites—MATH 119; STAT 121; ECON 110; ACC 201 (ACCT 2010); ISYS 100 & 101 (CIS 2010)--must be completed with the grades posted before applying to the accounting program. Grades for BUS 1100 (MATH 119), MGT 2040 (STAT 121), ECON 2010 & ECON 2020 (ECON 110) are discounted .3 (A to A-). Overall GPA and last 30 hrs GPA are not discounted. The minimum GPA to apply is 3.0 but the typical GPA of recently admitted students is a 3.7 (Prerequisites GPA +Overall GPA +Last 30 hours GPA=Average GPA). It is strongly recommended that transfer students complete one semester of BYU courses before applying.
http://marriottschool.byu.edu/bsmgt/current/flowcharts

DIXIE STATE UNIVERSITY
The minimum pre-business GPA is 2.5. No pre-business courses below a grade of "C-" are accepted. CIS 1200 (Computer Literacy) and CIS 2010 (Business Computer Proficiency) with a "B-" grade or better clear the computer proficiency requirement. DSC accepts an Interpersonal Communication or Public Speaking course to fulfill its Communication pre-business requirement. DSC highly recommends that interested Business/Accounting students meet with a DSC Business advisor before transferring for additional information and requirements. Go to www.dixie.edu/business for advisor contact information.

SOUTHERN UTAH UNIVERSITY
CIS 1020 with a B grade or better clears the computer proficiency requirement to enter upper-division course work. CIS 2010 is required as of fall 2007. Business course requirements that can be taken as part of General Education: PSY1010 (SS) or SOC 1010 (SS). The minimum GPA requirements are a 2.5+ in the pre-business and upper-division courses, including all transfer work.

UNIVERSITY OF UTAH
The David Eccles School of Business requires a 3.2 total and business GPA for admission to Upper Division and a minimum grade of a C- or higher in pre-business courses. GPAs of 3.0 to 3.19 are subject to Admission Committee review. Applications are accepted on a rolling basis and transfer students complete with pre-business courses or in progress with their final pre-business courses are encouraged to apply at http://undergrad.business.utah.edu/form/application-upper-division-status prior to attending the University of Utah. All students admitted to Upper Division are automatically assigned to the Business Administration degree program. Admission to other undergraduate majors in the David Eccles School of Business requires a separate application, prerequisite courses and subsequent review. For more information on transferring and specific major requirements, see: http://business.utah.edu/advising and students should meet with a business advisor once admitted to the University of Utah.

UTAH STATE UNIVERSITY
SLCC Business AS/AA transfer students with a GPA of 3.5 or higher will be automatically accepted into USU's College of Business. Students with a GPA below 3.5 must complete the prerequisites and apply to the Huntsman School of Business. The prerequisites include: a 'C' grade or better in Microeconomics, Business Statistics, and Intermediate Writing (ENGL 2010). Students who plan to major in Accounting must have a grade of 'B' or better in Accounting 2010. the Huntsman School of

Business also requires Business Communication (BUS 2200) which can be completed in addition to or as a part of the Business AS or AA degree. A GPA of 3.0 is usually the lower end of applicants who are accepted.

Students may pursue a degree in Business Administration or in Management Information Systems (MIS) through USU Salt Lake located at 2500 South State Street in Salt Lake City. The minimum required GPA is 2.67. For further information, call (385) 646-5570.

UTAH VALLEY UNIVERSITY
The overall minimum GPA is a 2.5. No business courses below a grade of 'C-' are accepted. CIS 1020 and CIS 2010 with a 'B' grade or better clear the computer proficiency requirement. UVU also requires SLCC's BUS 2200 Business Communication.

Utah Valley University (UVU) offers an online Bachelor of Science degree in Hospitality Management. Students completing an AS/AA in Business at SLCC will satisfy their general education and some lower division discipline requirements for the Hospitality Management Program. Various upper and lower division courses in Hospitality Management will be available online through UVU. Transfer recommendations: Take MATH 1050, BUS 2200, CHEF 1120 & CHEF 1210. www.uvu.edu/woodbury/academic/hospitality/index.html.

WEBER STATE UNIVERSITY
CIS 2010 with a 'B' grade (80%) or better to clear the computer proficiency requirement to enter upper-division course work. COMM 1020 recommended. Before applying for admission to the Goddard School of Business students must attend at least one semester at WSU. They must have an overall GPA of 2.5 or higher. An overall GPA of 2.5 and a grade of C- or higher is required for ACCT 2010, ECON 2010, ECON 2020, and MGT 2040. Students must also have a Transfer Summary validation completed. Request this from the GSBE Academic Advising Center at WSU.

WESTMINSTER COLLEGE
COMM 1020 is required for graduation. Westminster now offers business B.S. degrees which do not require foreign language. The business B.A. degrees require 2-3 semesters of one foreign language (see advisor). ENGL 2100 is not accepted at Westminster toward the English general education requirement. Minimum GPA of 2.3 is required. The general education diversity (DV) class has to be taken at Westminster. Check with an advisor to see about any SLCC class that might articulate for a DV at Westminster. However none of the DV classes at SLCC will count for this requirement.

Westminster College also offers an online Bachelors of Business Administration degree. Requirements to get into this program are an Associate degree in any subject matter and six years work experience.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: All associate degree business programs at SLCC are accredited by the Accreditation Council for Business Schools and Programs (ACBSP). Accreditation represents the achievement of meeting high national standards established for associate degree granting business programs and facilitates transfer of credits to four year universities and colleges.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Understand fundamentals of business and the relationship of business to society. 1.2 Demonstrate knowledge of local and national laws. 1.3 Perform planning for a small business.	1 – Acquire Substantive Knowledge
2.1 Communicate effectively in writing. 2.2 Communicate effectively verbally. 2.3 Communicate effectively numerically.	2 – Communicate Effectively
3.1 Choose and perform appropriate analyses for quantitative and qualitative data.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1 Engage in principled dialogue on civic issues involving local business.	5 – Engage Civically
6.1 Understand the ethical considerations that are inherently involved in business.	6 – Work Professionally
7.1 Proficiently use computer technology.	7 – Develop Computer & Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1090	College Alg Bus	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 1 COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) CHOOSE 1 COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communications	3	A	ENGL 1010 w/C grade or better
COMM 1010	Elem Effect Communication	3	A	
COMM 1020	Prin Public Speaking	3	A	

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: We recommend that students take: PSY 1010 or SOC 1010 as Social Science (SS) distribution course for Utah State University

COMPLETE EITHER OPTION 1 OR 2:

OPTION 1

COURSE		CR	SEM	PREREQUISITE
ACCT 1110	Financial Accounting I	3	A	
AND				
ACCT 1120	Financial Accounting II	3	A	ACCT 1110

OR

OPTION 2

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Financial Accounting	3	A	

NOTE:

- All Utah 4-year colleges accept ACCT 1110 and ACCT 1120 or ACCT 2010 for Financial Accounting.

COMPLETE ALL OF THE FOLLOWING:

COURSE		CR	SEM	PREREQUISITE
ACCT 2020	Managerial Acct	3	A	ACCT 1110 or ACCT 2010; Recommended CSIS 2010
BUS 1050	Foundations of Bus	3	A	ENGL 1010 (may be taken concurrently)
CSIS 2010	Bus Cmp Prof Database	3	A	CIS 1020 or challenge exam
ECON 2010	Microeconomics	3	A	
MGT 2040	Bus Statistics I	4	A	MATH 1010 or FIN 1380, and CIS 1020

ELECTIVE COURSES: (COMPLETE AT LEAST 10 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
BUS 1010	Introduction to Business	3	A	
BUS 1100	Calculus for Bus	3	A	MATH 1050 or MATH 1090
BUS 2200	Bus Communications	3	A	ENGL 1010 w/C or better
ECON 2020	Macroeconomics	3	A	
MGT 1100	Small Bus Management	3	F/Sp	
MGT 1600	Management Essentials	3	A	
MGT 2020	Entrepreneurship	3	F/Sp	MKTG 1030, and ACCT 1210
MGT 2050	Legal Environ of Bus	3	A	Recommended BUS 1050
MGT 2070	Human Resource Mgmt	3	F	
MGT 2080	Employment Law	3	Sp	
MGT 2600	International Trade/Bus	3	Sp	or ECON 2020
MGT 2950	Entrepreneurship Forum	1	A	
MGT 2990	Current Topics Mgmt	1	A	Variable, contact department

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 1110	3	(ACCT 1120)	(3)
OR		ACCT 2020	3
ACCT 2010	3	ENGL 2010	3
COMM 1020	3	AI	3
ENGL 1010	3	ELEC	3
MATH 1050	4	DISTRIBUTION (2)	6
OR			
MATH 1090	3		
LW	1		
Total	**13-14**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 2010	3	MGT 2040	4
ECON 2010	3	MGT 2990	1
ELEC	3	ELEC	3
ELEC	3	DISTRIBUTION (3)	9
DISTRIBUTION	3		
Total	**15**	**Total**	**17**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. SLCC may waive any class in the preparatory skills if students can demonstrate equivalent skills. It is the student's responsibility to:

- examine each course description for details of prerequisite classes.
- satisfy those prerequisites before taking the designated class.

Students may take additional transfer requirements beyond the AA/AS degrees at SLCC before transferring to Utah State University, Southern Utah University and Utah Valley University.

BUSINESS MANAGEMENT – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 65 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/businessmanagement
Academic Advisor, BB 132, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Edward Engh
Instructors – Don Skousen, Eric LeDuc

Program Description: Business Management includes the study of business theory and principles applied in the many activities of business today, both nationally and worldwide. Emphasis is given to problem solving and decision making to prepare the graduate with decision-making skills for a variety of career areas

The Business Management Department offers a Certificate of Completion and Associate of Applied Science degrees in Business Management, Production Operations and Supply Chain Management, and Small Business Management. These areas are designed to lead to employment as managers, manager-trainees, production planners and schedulers, engineering assistants, inventory control technicians, entrepreneurs, and a variety of other positions.

General Education and elective courses provide training in effective oral and written communication and human relation skills. BUS 1050, BUS 2200, COMM 1010, MGT 2070 and MGT 2500 are taught using group and team activities in the learning process to develop the student's interactive skills and to build human values and ethics.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Business Management areas should follow the courses listed in Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

Career Opportunities: Graduates with an AAS in Business Management will have gained the skills and abilities to apply for a variety of jobs including General & Operations Manager, Sales Manager, Business Analyst, and Assistant Manager.

Transfer/Articulation Information: This is a 2-year terminal degree not designed to transfer. Several courses are transferable to other institutions. Students should check with a business advisor or the receiving institution to determine credit transferability.

Total Program/Course Fees: Some courses may have lab fees.

Estimated Cost for Students: The estimated cost for textbooks per semester is $300.

Estimated Time to Completion: If a student follows the proposed sample schedule outline, time to completion is four semesters.

Specialized Accreditation: Associate degree business programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Understand fundamentals of business and the relationship of business to society. 1.2 Demonstrate knowledge of local and national laws. 1.3 Perform planning for a small business. 1.4 Demonstrate an understanding of distribution systems. 1.5 Demonstrate an understanding of the fundamentals of transportation and distribution and how it relates to the economy.	1 – Acquire Substantive Knowledge
2.1 Communicate effectively in writing. 2.2 Communicate effectively verbally.	2 – Communicate Effectively

2.3 Communicate effectively numerically.	
3.1 Choose and perform appropriate analyses for quantitative and qualitative data.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1 Engage in principled dialogue on civic issues involving local business.	5 – Civic Engagement
6.1 Understand the ethical considerations that are inherently involved in business.	6 – Work Professionally
7.1 Proficiently use computer technology.	7 – Computer & Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Bus Communications	3	A	ENGL 1010 w/C grade or better

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: BUS 1050 fulfills a program course requirement and cannot be used as General Education Interdisciplinary (ID) requirement.

REQUIRED COURSES: (42 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Fin Acct	3	A	
ACCT 2020	Managerial Acct	3	A	ACCT 1110 or ACCT 2010, recommended CSIS 2010
BUS 1050	Foundations of Bus	3	A	ENGL 1010 (may be taken concurrently)
ECON 2020	Macroeconomics	3	A	
MGT1020	Distribution Sys	3	F/Sp	
MGT 2020	Entrepreneurship	3	F/Sp	MKTG 1030, ACCT 2020
MGT 2040	Bus Statistics I	4	A	CIS 1020, and MATH 1010 or FIN 1380
MGT 2050	Legal Env of Bus	3	A	Recommended BUS 1050
MGT 2070	Human Resource Mgt	3	F	
MGT 2080	Employment Law	3	Sp	
MGT 2500	Strategic Mgmt Princ	3	Sp	BUS 2200, MGT 2070
MGT 2600	International Trade/Bus	3	Sp	ECON 2020
MGT 2950	Entrepreneur Forum	2	A	Complete two (one credit each term)
MKTG 1030	Intro Marketing	3	A	

ELECTIVE COURSES: (COMPLETE AT LEAST 5 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ACCT 2520	Federal Inc Tax	3	F	ACCT 1120 or ACCT 2010
BUS 1010	Introduction to Business	3	A	
BUS 1040	Ethics at Work	3	F, Sp	
ECON 2100	Labor Econ	3	F, Sp	ECON 2010
ECON 2400	Intl Econ/Finance	3	F	ECON 2010 or ECON 2020 (can be taken concurrently)
FIN 2210	Credit and Collections	2	A	ACCT 1110 or ACCT 2010
MGT 1600	Mgmt Essentials	3	A	
MGT 2000	CO-OP	1-3	TBA	Sophomore standing, 2.0 GPA and related employment
MGT 2990	Current Topics	1-3	TBA	variable, contact department
MATH 1050	College Algebra (QL)	4	A	Within the last year MATH 1010 w/C grade of better or appropriate Accuplacer score
	OR			
MATH 1090	College Algebra Bus (QL)	3	A	Within the last year MATH 1010 w/C grade of better or appropriate Accuplacer score

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2010	3	ACCT 2020	3
BUS 1050	3	ECON 2020	3
ENGL 1010	3	FIN 1380	3
MGT 1020	3	MKTG 1030	3
MKTG 1960	3	MGT 2600	3
MGT 2950	1	DISTRIBUTION	3
Total	**16**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
BUS 2200	3	MGT 2050	3
MGT 2020	3	MGT 2080	3
MGT 2040	4	MGT 2500	3
MGT 2070	3	ELEC (2)	6
DISTRIBUTION	3		
Total	**16**	**Total**	**15**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. The classes designed to assist students in reaching the skill level necessary to enter the certificate and degree programs are computer applications, MATH 0990. Any class in the preparatory skills may be waived for students who can demonstrate equivalent skills.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken. Students who want to challenge the exam are advised to review the information at www.slcc.edu/csis. An 80% or higher is required on each section of the test. Once the exam is passed, a P is posted to the transcript and credit is awarded.

Cooperative Education is SLCC's strategy for recognizing and rewarding new learning associated with student-related employment in a business, industrial or government work environment. Credit earned from MGT 2000 is applied toward graduation requirements as business elective credits. The department strongly recommends that students enhance their employment opportunities through Cooperative Education as soon as skills permit, to complement the certificate or degree. Contact CO-OP Education at (801) 957-4014.

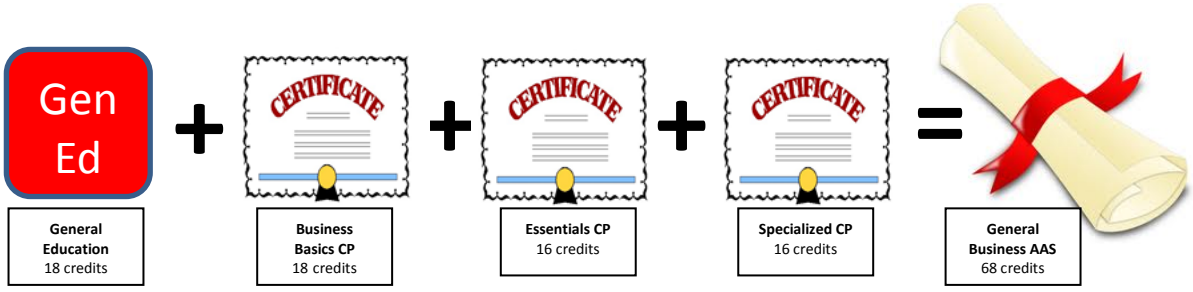
BUSINESS ADMINISTRATION – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 68 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, 801-957-7522
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/businessmanagement
Academic Advisor, BB 132, (801) 957-4323

Program Faculty:
Faculty members represent the following areas: Accounting, Business Communication, Business Management, Computer Science and Information Systems, Economics, Finance and Marketing.

Program Description:
The Business Administration AAS degree prepares students to enter the workplace with skills in a variety of areas.
The School of Business offers Certificates of Proficiency (CP) in the following areas:

- Business
- Accounting
- Computer Science and Information Systems
- Culinary Arts
- Finance
- Management
- Marketing



Choose the Business Basics CP and any two (2) of the Essentials Certificates of Proficiency or one (1) Essentials and one (1) Specialized Certificate of Proficiency listed below. Completion of the General Education requirements (18 CREDITS MINIMUM), the Business Basics CP (18 CREDITS MINIMUM) and two (2) Certificates of Proficiency (32 CREDITS MINIMUM) allows a student to be eligible to apply for an Associate of Applied Science Degree in Business Administration.

Career Opportunities: With a degree in business administration, students have had exposure to a broad range of business related subjects such as accounting, sales, management, economics, finance, and marketing. Because of this, graduates are qualified for entry-level positions in many of these varied professions.

Transfer/Articulation Information: This is a 2-year terminal degree not designed to transfer. Several courses are transferable to other institutions. Students should check with a business advisor or the receiving institution to determine credit transferability.

Total Program/Course Fees: Some courses may have lab fees.

Estimated Cost for Students: Varies with course selection and credit hours.

Estimated Time to Completion: If a student follows the proposed sample schedule outline, time to completion is four semesters.

Specialized Accreditation: Associate degree business programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
For specific learning outcomes, see the Business Basics CP and the individually selected CPs.	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3-5 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communications	3	A	ENGL 1010 w/C grade or better

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1960	Professionalism in Business	3	A	

DISTRIBUTION AREAS (6 CREDITS)

Choose an additional 6 credits from at least 2 of the following Distribution Areas.

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID) *	3		
Physical Science (PS)	3		
Social Science (SS) **	3		

*Recommended: FIN 1050 Personal Finance

**Recommended: ECON 2010 Microeconomics

REQUIRED COURSES: (18 CREDITS MINIMUM)

Business Basics CP (18 credits)

ELECTIVE COURSES: (32 CREDITS MINIMUM)

Choose the Business Basics CP and any two (2) of the Essentials Certificates of Proficiency or one (1) Essentials and one (1) Specialized Certificate of Proficiency listed below. Completion of the General Education requirements (18 CREDITS MINIMUM), the Business Basics CP (18 CREDITS MINIMUM) and two (2) Certificates of Proficiency (32 CREDITS MINIMUM) allows a student to be eligible to apply for an Associate of Applied Science Degree in Business Administration.

Choose any two (2) of the following Certificates of Proficiency:

Essentials Certificates of Proficiency
Accounting Essentials CP (16 credits)
Finance Essentials CP (20 credits)
Management Essentials CP (17 credits)
Marketing Essentials CP (16 credits)

Specialized Certificates of Proficiency
Accounting Advanced CP (16 credits)
Advanced Marketing CP (16 credits)
Business and Personal Computing CP (18 credit)
Computer Science Fundamentals CP (16 credits)
Database Information Systems and Technology CP (16 credits)
Financial Management CP (17 credits)
Financial Services CP (19 credits)
Hospitality ManageFirst© Credential Track CP (18 credits)
Investments and Trading CP (18 credits)

The student should refer to the specific Certificates of Proficiency for the list of courses, requirements, prerequisites, and scheduling suggestions to complete their degree.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
General Education	9	General Education	9
Business Basics CP courses	9	Business Basics CP courses	9
Total	**18**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
Essentials Certificate of Proficiency	16	2nd Essentials or Specialized Certificate of Proficiency	16
Total	**16**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. SLCC may waive any class in the preparatory skills if students can demonstrate equivalent skills. It is the student's responsibility to:

- examine each course description for details of prerequisite classes.
- satisfy those prerequisites before taking the designated class.

BUSINESS MANAGEMENT: PRODUCTION OPERATIONS AND SUPPLY CHAIN MANAGEMENT EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 64 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/businessmanagement
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Edward Engh
Instructors – Don Skousen, Eric LeDuc

Program Description: The Production Operations and Supply Chain Management program focuses on the production/operations, supply chain design and management, logistics, quality, and lean principles required to produce goods and services. Efficient management of production and service systems requires an understanding of these activities. Recent business globalization, fast response time requirement, short product life cycle, high quality and low cost product and service requirements, investment in supply chain and logistics, removal of non-value added activities (waste reduction), high customer expectations, and technological advancements are changing the ways of conducting businesses. These have also created new challenges. This program provides the students with the necessary background, understanding, and concepts that will help them meet the challenges of today's dynamic business environment and become productive employees or business owners.

The Business Management Department offers a Certificate of Completion and Associate of Applied Science degrees in Business Management, Production Operations and Supply Chain Management, and Small Business Management. These areas are designed to lead to employment as managers, manager-trainees, production planners and schedulers, engineering assistants, inventory control technicians, entrepreneurs, and a variety of other positions.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Business Management areas should follow the courses listed in Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

Career Opportunities: Logistician, Operation Research Analyst, Industrial Production Manager

Transfer/Articulation Information: This is a 2-year terminal degree. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

Program Entry Requirements: Computer Essentials is a prerequisite for this program. Students may complete this prerequisite by successfully passing the CIS 1020 challenge exam. Challenge information may be obtained at www.slcc.edu/csis. An 80% or higher is required on each section of the test. Once the exam is passed, a P is posted to the transcript and credit is awarded.

Total Program/Course Fees: The estimated cost for textbooks per semester is $300.

Estimated Cost for Students: Computer lab fee may be required for core program courses. These courses use specialized software. The fee will be used to support the software and lab costs.

Estimated Time to Completion: If a student follows the proposed sample schedule outline, completion can be achieved in 4 semesters.

Specialized Accreditation: Associate degree business programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Understand fundamentals of business and the relationship of business to society. 1.2 Demonstrate knowledge of local and national laws. 1.3 Perform planning for a small business. 1.4 Demonstrate an understanding of distribution systems. 1.5 Design and analyze production operations and supply chain networks.	1 – Acquire Substantive Knowledge
2.1 Communicate effectively in writing. 2.2 Communicate effectively verbally. 2.3 Communicate effectively numerically.	2 – Communicate Effectively
3.1 Choose and perform appropriate analyses for quantitative and qualitative data.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1 Engage in principled dialogue on civic issues involving local business.	5 – Civic Engagement
6.1 Understand the ethical considerations that are inherently involved in business.	6 – Work Professionally
7.1 Proficiently use computer technology.	7 – Computer & Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra (QS)	4	A	RDG 0990 w/C grade or better or appropriate Accuplacer score AND within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score.

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communication	3	A	ENGL 1010 w/C grade or better

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1960	Professionalism in Business	3	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: BUS 1050 fulfills and program course requirement and cannot be taken as a General Education Interdisciplinary (ID) Distribution course.

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Financial Acct	3	A	
ACCT 2020	Managerial Acct	3	A	ACCT 1110 or ACCT 2010, and CIS 1020 or challenge exam
BUS 1050	Foundations of Business	3	A	ENGL 1010 (may be taken concurrently)
BUS 1100	Applied Business Calculus	3	A	MATH 1050 or MATH 1090

CSIS 2040	Advanced Spreadsheet App	3	Sp	CIS 1020 or challenge exam
MGT 2040	Bus Statistics I	4	A	CIS 1020 or challenge exam, and MATH 1010 or FIN 1380
MGT 2050	Legal Environment of Bus	3	A	Recommended BUS 1050
MGT 2350	Bus Statistics II	3	TBA	MGT 2040, and MATH 1090 or MATH 1050
MGT 2700	Prod/Oper Mgmt	3	F	MGT 2040, MGT 2350, and MATH 1050 or MATH 1090
MGT 2710	Quality Control/Six Sig	3	F	MGT 2040, MGT 2350
MGT 2720	Supply Chain Des/Mgmt	3	Sp	MGT 2700
MGT 2730	Lean Production	3	Sp	MGT 2700, MGT 2710
MGT 2740	Logistics & E-Bus	3	Sp	MGT 2700, MGT 2720

ELECTIVE COURSES: (COMPLETE AT LEAST 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
BUS 1010	Introduction to Business	3	A	
MGT 1040	Business Ethics	3	F, Sp	
MGT 2000	CO-OP	1-3	A	Sophomore standing, 2.0 GPA and related employment
MGT 2950	Entrepreneur Forum	1	A	
MGT 2990	Current Topics	1-3	TBA	variable, contact department

NOTE: Elective courses should relate to operations and supply chain management. Suggested topics are Production/Operations Planning and Control, Project Management, Distribution Systems, Inventory Management, Economic Analysis, Work Design and Measurement, Management of Automated Manufacturing System, Introduction to Enterprise Resource Planning (ERP).

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
BUS 2200	3	BUS 1050	3
ENGL 1010	3	MATH 1050/1090	4-3
MKTG 1960	3	MGT 2040	4
DISTRIBUTION (2)	6	MGT 2050	3
		CSIS 2040	3
Total	**15**	**Total**	**16-17**

FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2010	3	ACCT 2020	3
BUS 1100	3	MGT 2720	3
MGT 2350	3	MGT 2730	3
MGT 2700	3	MGT 2740	3
MGT 2710	3	ELEC	6
Total	**15**	**Total**	**18**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. The classes designed to assist students in reaching the skill level necessary to enter the certificate and degree programs are computer applications, MATH 0990. Any class in the preparatory skills may be waived for students who can demonstrate equivalent skills.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

BUSINESS MANAGEMENT: SMALL BUSINESS OWNERSHIP EMPHASIS – ASSOCIATE OF APPLIED SCIENCE^{CTE} (AAS) — 66 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 234
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/businessmanagement
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Edward Engh
Instructors – Don Skousen, Eric LeDuc

Program Description: The Business Management Department offers a Certificate of Completion and Associate of Applied Science degrees in Business Management, Production Operations and Supply Chain Management, and Small Business Management. These areas are designed to lead to employment as managers, manager-trainees, production planners and schedulers, engineering assistants, inventory control technicians, entrepreneurs, and a variety of other positions.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Business Management areas should follow the courses listed in Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

Career Opportunities: Small business owner, entrepreneur, start-up specialist / consultant.

Transfer/Articulation Information: This is a 2-year terminal degree. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

Total Program/Course Fees: Some classes may have lab fees

Estimated Cost for Students: The estimated cost for textbooks per semester is $300.

Estimated Time to Completion: If a student follows the proposed sample schedule outline, course completion can be achieved in 4 semesters.

Specialized Accreditation: Associate degree business programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will: 1.1 Understand fundamentals of business and the relationship of business to society. 1.2 Demonstrate knowledge of local and national laws. 1.3 Proficiently use technology. 1.4 Perform planning for a small business. 1.5 Demonstrate an understanding of distribution systems.	1 – Substantive Knowledge
Students will: 2.1 Communicate effectively in writing. 2.2 Communicate effectively verbally. 2.3 Communicate effectively numerically.	2 – Communicate Effectively
Students will: 3.1 Choose and perform appropriate analyses for quantitative and qualitative data.	3 – Develop Quantitative Literacy
Students will:	4 – Think Critically

4.1 Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	
Students will: 5.1 Understand the ethical considerations that are inherently involved in business. 5.2 Engage in principled dialogue on civic issues involving local business.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math (QS)	3	A	MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communication	3	A	ENGL 1010 w/C grade or better

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1960	Professionalism in Business	3	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: BUS 1050 and FIN 1050 fulfill program course requirements and cannot be taken as a General Education courses.

REQUIRED COURSES: (40 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Fin Acct	3	A	
ACCT 2020	Managerial Acct	3	A	ACCT 1110 or ACCT 2010, and CIS 1020 or challenge exam
BUS 1050	Foundations of Bus	3	A	ENGL 1010 (may be taken concurrently)
ECON 2010	Microeconomics	3	A	
FIN 2040	Financial Management	3	Sp	ACCT 2020
FIN 2210	Credit and Collections	3	A	ACCT 1110 or ACCT 1220
MGT 1020	Distribution Sys	3	F/Sp	
MGT 2020	Entrepreneurship	3	F/Sp	MKTG 1030, ACCT 2020
MGT 2040	Bus Statistics I	4	A	CIS 1020, and MATH 1010 or FIN 1380
MGT 2050	Legal Environment of Bus	3	A	
MGT 2070	Human Resource Mgmt	3	F	
MGT 2080	Employment Law	3	Sp	
MKTG 1010	Customer Service Tech	2	A	
MKTG 1030	Intro Marketing	3	A	
MKTG 1480	Sales	3	Sp	

ELECTIVE COURSES: (SELECT 4 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
FIN 1050	Personal Finance	3	A	
FIN 2950	Executive Lectures	1	A	

LE 1220	Human Relat - Career Dev	3	A	
MGT 1040	Business Ethics	3	F, Sp	
MGT 1600	Management Essentials	3	A	
MGT 2000	Bus Management CO-OP	1-3	TBA	Sophomore standing, 2.0 GPA and related employment
MGT 2600	International Trade & Bus	3	Sp	ECON 2020
MGT 2950	Entrepreneur Forum	1	A	
MGT 2990	Current Topics	1	TBA	variable, contact department
MKTG 1070	Promotion	3	F	
MKTG 1300	Bus Presentations	2	F	

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2010	3	ACCT 2020	3
MKTG 1010	2	BUS 1050	3
ECON 2010	3	BUS 2200	3
ENGL 1010	3	MGT 1020	3
FIN 1380	3	MKTG 1960	3
MKTG 1030	3		
Total	**17**	**Total**	**15**

FALL SEMESTER		**SPRING SEMESTER**	
FIN 2210	2	FIN 2040	3
MGT 2070	3	MGT 2040	4
MGT 2020	3	MKTG 2080	3
MGT 2050	3	MKTG 1480	3
DISTRIBUTION	3	DISTRIBUTION	3
ELEC	2	ELEC	2
Total	**16**	**Total**	**18**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. The classes designed to assist students in reaching the skill level necessary to enter the certificate and degree programs are computer applications, MATH 0990. Any class in the preparatory skills may be waived for students who can demonstrate equivalent skills.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

BUSINESS MANAGEMENT – CERTIFICATE OF COMPLETION[CTE] 33 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/businessmanagement
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Edward Engh
Instructors – Don Skousen, Eric LeDuc

Program Description: Business Management includes the study of business theory and principles applied in the many activities of business today, both nationally and worldwide. Emphasis is given to problem solving and decision making to prepare the graduate with decision-making skills for a variety of career areas.

This program is a one-year course of study surveying essentials of business management to include the study of business theory and principles which are important in both a national and global perspective.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Business Management areas should follow the courses listed in Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

Career Opportunities: Asst. Manager, Retail Manager, Office Manager, Bank Teller

Total Program/Course Fees: Some classes may have lab fees

Estimated Cost for Students: The estimated cost for textbooks per semester is $300.

Estimated Time to Completion: If a student follows the proposed sample schedule outline, completion can be achieved in two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Understand fundamentals of business and the relationship of business to society. 1.2 Demonstrate knowledge of local and national laws. 1.3 Perform planning for a small business. 1.4 Demonstrate an understanding of distribution systems. 1.5 Design and analyze production operations and supply chain networks.	1 – Acquire Substantive Knowledge
2.1 Communicate effectively in writing. 2.2 Communicate effectively verbally. 2.3 Communicate effectively numerically.	2 – Communicate Effectively
3.1 Choose and perform appropriate analyses for quantitative and qualitative data.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
5.1 Engage in principled dialogue on civic issues involving local business.	5 – Civic Engagement
6.1 Understand the ethical considerations that are inherently involved in business.	6 – Work Professionally
7.1 Proficiently use computer technology.	7 – Computer & Information Literacy

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Fin Acct	3	A	
ACCT 2020	Managerial Acct	3	A	ACCT 1110 or ACCT 2010, and CIS 1020 or challenge exam
BUS 1050	Foundations of Bus	3	A	ENGL 1010 (may be taken concurrently)
BUS 2200	Bus Communications	3	A	ENGL 1010 w/C grade or better
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score
MGT1020	Distribution Sys	3	F/Sp	
MGT 2070	Human Resource Mgt	3	F	
MKTG 1030	Intro Marketing	3	A	
MKTG 1960	Prof in Business	3	A	

ELECTIVE COURSES: (COMPLETE AT LEAST 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
BUS 1010	Introduction to Business	3	A	
ACCT 2520	Federal Inc Tax	3	F	ACCT 1120 or ACCT 2010
ECON 2100	Labor Econ	3	F, Sp	ECON 2010
ECON 2400	Intl Econ/Finance	3	F	ECON 2010 or ECON 2020 (can be taken concurrently)
FIN 2210	Credit and Collections	2	F/Sp	ACCT 1110 or ACCT 2010
FIN 2950	Executive Lectures I	1	Sp	
MGT 1600	Mgmt Essentials	3	A	
MGT 2000	CO-OP	1-3	TBA	Sophomore standing, 2.0 GPA and related employment
MGT 2040	Bus Statistics I	4	A	CIS 1020, and MATH 1010 or FIN 1380
MGT 2050	Legal Environ of Bus	3	A	Recommended BUS 1050
MGT 2350	Bus Statistics II	3	Sp	MGT 2040, and MATH 1090 or MATH 1050
MGT 2950	Entrepreneur Forum	1	A	
MGT 2990	Current Topics	1-3	TBA	variable, contact department
MATH 1050	College Algebra	4	A	Within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
	OR			
MATH 1090	College Algebra Business	3	A	Within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2010	3	ACCT 2020	3
ENGL 1010	3	BUS 1050	3
FIN 1380	3	BUS 2200	3
MGT 1960	3	MGT 1020	3
MKTG 1030	3	MKTG 1960	3
		ELEC	3
Total	**15**	**Total**	**18**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. The classes designed to assist students in reaching the skill level necessary to enter the certificate and degree programs are computer applications, MATH 0990. Any class in the preparatory skills may be waived for students who can demonstrate equivalent skills.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

RETAIL MANAGEMENT – CERTIFICATE OF COMPLETION[CTE] 30 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/marketingmanagement
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors - Curtis Youngman, Rolayne Day

Program Description: The Retail Management Certificate program is designed to prepare new and returning students for advancement in the retail industry. The program is structured so as to serve a broad retail segment and be effective in developing future talent to fill the void created by retirement within the retail field. This program is a gateway program intended to introduce higher education and training to the retail industry, which can lead to an AAS degree.

Students will develop basic educational knowledge and technical skills in the following key areas: written and oral business communication, business mathematics, bookkeeping/accounting, computer applications, management and marketing, human relations and leadership, retail management and merchandising.

Career Opportunities: Student completing the Retail Management Certificate will either already be working in, or begin to work in a retail environment that will boost their career and earning potential.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Communicate effectively, written and oral	
Analyze basic budgets and profit & loss statements	
Use current industry standard software	
Fundamental knowledge of organizational behavior and human resources basics	
Understand business side of retail sales and customer relations	

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Financial Acct	3	A	ACCT 2010
BUS 2200	Bus Communication	3	A	ENGL 1010 w/C grade or better
CIS 1020	Computer Essentials	3	A	CIS 1020
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
MKTG 1030	Intro Marketing	3	A	
MKTG 1960	Professionalism in Business	3	A	
MKTG 2350	Retail Mgt	3	Sp	MKTG 1030
MGT 1600	Management Essentials	3	A	
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score
OR				
MATH 1010	Intermediate Algebra	4	A	RDG 0990; within last year MATH 0990 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1090	College Algebra Business	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ACCT 2010	3
MATH 1090	3	MGT 1600	3

CIS 1020	3	MKTG 1960	3
MKTG 1030	3	BUS 2200	3
		MKTG 2350	3
Total	**12**	**Total**	**15**

Advising Notes: This program is endorsed by the Western Association of Food Chains (WAFC) for their management career pathway.

BUSINESS BASICS – CERTIFICATE OF PROFICIENCY [CTE] (CP) — 18 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957- 4073
Program Information, (801) 957-4470
http://www.slcc.edu/businessmanagement/
Academic Advisor, Taylorsville Redwood Campus BB 132A, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Ed Engh
Instructors – Eric LeDuc, Don Skousen

Program Description: The Certificate of Proficiency in Business Basics provides the foundation upon which students can build their skills in any business field.

Career Opportunities: Business administration is one of the most-practiced management studies. Jobs related to business management are exciting if you possess the necessary skills and expertise and the pay package is also very attractive. The career opportunities are wide in both private and public sectors. Some of the management fields that are incorporated in business management are: Financial Management, Strategic management, Marketing Management, Accounting, Entrepreneurship and Small Business Management, and Operations Management.
The scope and opportunities in this business are huge. But before you think about picking up a career in this field, it is highly important to attain some basic and fundamental skills, to build a strong foundation for a successful career. Some of the key skills are listed below:
✔ High aptitude skills
✔ Decision making
✔ Good verbal and non-verbal communication skills
✔ Presentation skills
✔ Efficient leadership skills
✔ Time management
✔ Numerical computation
✔ Conceptual skills and lucid explanatory skills
✔ Knowledge about spreadsheet, statistics, logistics and computer skills
For complete competence in Business Management, these courses should be complemented with other career specific, skill building courses. This Certificate of Proficiency may be used as a stackable credential for other Business AS or AAS degrees.

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuitionfees.asp, the estimated cost of books is $300 per semester.

Estimated Time to Completion: Approximately one semester.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. The certificate is financial aid eligible, if you plan to stack it with other certificates, which will lead to a Certificate of Completion or AAS degree. Please check with the Financial Aid Office to determine if your classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Demonstrate the ability to prepare financial statements using generally accepted accounting principles.	1 – Acquire Substantive Knowledge
Understand the diverse career opportunities in the field of business.	1 – Acquire Substantive Knowledge
Use business data and information for decision making on a level appropriate for a first-year student.	4 – Think Critically and Creatively
Create and deliver effective presentations that include visual and oral communication methods to peers.	2- Communicate Effectively

REQUIRED COURSES: (18 Credits)

COURSE		CR	SEM	PREREQUISITE
ACCT 1110	Financial Accounting	3	A	
OR				
ACCT 2010	Survey of Financial Accounting	3	A	
ACCT 2020	Managerial Accounting	3	A	ACCT 1110 or ACCT 2010
BUS 1010	Intro to Business	3	A	
CSIS 2010	Bus Cmp Prof Database	3	A	Recommended CIS 1020
OR				
MGT 2050	Business Law	3	A	Recommended BUS 1050
MGT 1600	Management Essentials	3	A	
MKTG 1030	Intro to Marketing	3	A	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 1110 (or 2010)	3	ACCT 2020	3
BUS 1010	3	MGT 1600	3
MKTG 1030	3	CSIS 2010 or MGT 2050	3
Total	**9**	**Total**	**9**

Advising Notes: It is highly recommended that each student meet with an advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4323.

MANAGEMENT ESSENTIALS– Certificate of Proficiency [CTE] CP — 17 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
http://www.slcc.edu/businessmanagement/
Academic Advisor, Taylorsville Redwood Campus BB 132A, (801) 957-4323

Program Faculty:
Professors: Don Gren, Roger Lee, Amar Sahay
Assoc. Professors: Karen Killinger, Melodee Lambert
Assist. Professors: Basil Chelemes, Ed Engh
Instructors: Eric LeDuc, Don Skousen

Program Description: The Certificate of Proficiency provides the unique skills needed for a student to begin in an entry level position in a business and quickly move into a supervisory or management role.

Career Opportunities:
Business managers often work very closely with business owners to monitor day-to-day business activities, assist with marketing the business and to hire, motivate and manage staff. Effective managers are equipped with the knowledge, skills and abilities necessary to drive a business to success and profit with minimal resources and under the direction of the owner. For complete competence in Business Management, these courses should be complemented with other skill building courses. This Certificate of Proficiency may be used as a stackable credential for other Business AS or AAS degrees.

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuitionfees.asp, the estimated cost of books is $300 per semester.

Estimated Time to Completion: Approximately one semester.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. The certificate is financial aid eligible, if you plan to stack it with other certificates, which will lead to a Certificate of Completion or AAS degree. Please check with the Financial Aid Office to determine if your classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Demonstrate understanding of business planning, evaluation and analysis of various components of a business operation by creating a business plan.	1 – Acquire Substantive Knowledge
Demonstrate understanding of the management functions of planning, organizing, leading, and controlling.	1 – Acquire Substantive Knowledge
Collect, synthesize and analyze information from a variety of sources.	4 – Think Critically and Creatively
Demonstrate presentation methods which improve the quality of visual and oral communications.	2- Communicate Effectively

REQUIRED COURSES: (17-18 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ECON 2020	Macroeconomics	3	A	None
BUS 1100	Business Calculus	3	A	MATH 1050 or MATH 1090
OR				
MGT 2040	Business Statistics	4	A	MATH 1010 or FIN 1380, and CIS 1020
MGT 1100	Small Business Mgmt	3	F/Sp	None
MGT 1020	Distribution Systems	3	F/Sp	None
MKTG 1300	Business Presentations	2	F	None
MGT 2050	Legal Environ of Business	3	A	BUS 1050 Recommended
OR				
CIS 2010	Bus Cmp Prof DB	3	A	CIS 1020 Recommended

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ECON 2020	3	MGT 1020	3
MGT 1100	3	MGT 2050	3
MKTG 1300	2	**OR**	
		CIS 2010	3
		BUS 1100	3
		OR	
		MGT 2040	4
Total	**8**	**Total**	**9-10**

Advising Notes: It is highly recommended that each student meet with an advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4323.

SMALL BUSINESS MANAGEMENT – CERTIFICATE OF PROFICIENCY [CTE] (CP)

16 credits minimum

Taylorsville Redwood Campus, BB 109
General Information, (801) 957- 4073
Program Information, (801) 957-4470
http://www.slcc.edu/businessmanagement/
Academic Advisor, Taylorsville Redwood Campus BB 132A, (801) 957-4323

Program Faculty:
Professors – Don Gren, Roger Lee, Amar Sahay
Associate Professors – Karen Killinger, Melodee Lambert
Assistant Professors – Basil Chelemes, Ed Engh
Instructors – Eric LeDuc, Don Skousen

Program Description: The Certificate of Proficiency in Small Business Management provides the unique skills needed to start-up and run a new, small business or to take over the management and operation of an existing business.

Career Opportunities: Small business managers often work very closely with business owners to monitor day-to-day business activities, assist with marketing the business and to hire, motivate and manage staff. Effective small business managers are equipped with the knowledge, skills and abilities necessary to drive a business to success and profit with minimal resources and under the direction of the owner. In many instances, the owner of a small business is also the manager. For complete competence in Small Business Management, these courses should be complemented with other skill building courses. This Certificate of Proficiency may be used as a stackable credential for other Business AS or AAS degrees.

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuitionfees.asp, the estimated cost of books is $300 per semester.

Estimated Time to Completion: Approximately one semester.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. The certificate is financial aid eligible, if you plan to stack it with other certificates, which will lead to a Certificate of Completion or AAS degree. Please check with the Financial Aid Office to determine if your classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Demonstrate understanding of retail concepts of merchandise management, assortment, pricing, visuals, etc.	1 – Acquire Substantive Knowledge
Demonstrate understanding of the basic principles of law as they relate to business.	1 – Acquire Substantive Knowledge
Demonstrate skills in planning, evaluation, and analysis of various components of a small business operation by developing a business plan.	4 – Think Critically and Creatively
Communicate effectively while presenting analyses on case studies and business scenarios.	2- Communicate Effectively

REQUIRED COURSES: (16 Credits)

COURSE		CR	SEM	PREREQUISITE
FIN 1050	Personal Finance (ID)	3	A	None
MKTG 2350	Retail Mgmt.	3	Sp	MKTG 1030
MGT 1100	Small Business Mgmt.	3	F/Sp	None
MGT 2050	Business Law	3	A	Recommended BUS 1050
MGT 2950	Entrepreneurship Forum	1	A	None
CSIS 2060	Decision Support Systems	3	Sp/F	CSIS 2010

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
FIN 1050 (ID)	3	MGT 1100	3
CSIS 2060	3	MGT 2050	3
MKTG 2350	3	MGT 2950	1
Total	**9**	**Total**	**7**

Advising Notes: It is highly recommended that each student meet with an advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4323.

RETAIL MANAGEMENT – CERTIFICATE OF ACHIEVEMENT[CTE] 9 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 234
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/marketingmanagement
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – Curtis Youngman, Rolayne Day

Program Description: The Retail Management Certificate program is designed to prepare new and returning students for advancement in the retail industry. The program is structured so as to serve a broad retail segment and be effective in developing future talent to fill the void created by retirement within the retail field. This program is a gateway program intended to introduce-higher education and training to the retail industry, which can lead to an AAS degree.

Students will develop basic educational knowledge and technical skills in the following key areas: written and oral business communication, business mathematics, bookkeeping/accounting, computer applications, management and marketing, human relations and leadership, retail management and merchandising.

Career Opportunities: Student completing the Retail Management Certificate will either already be working in, or begin to work in a retail environment that will boost their career and earning potential.

NOTE: This Certificate is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Communicate effectively, written and oral	
Develop basic understanding of management and marketing and what role they play in retail settings	

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MGT 1600	Management Essentials	3	A	
MKTG 1030	Intro Marketing	3	A	
MKTG 1960	Professionalism in Business	3	A	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
MKTG 1030	3	MKTG 1960	3
MGT 1600	3		
Total	**6**	**Total**	**3**

Advising Notes: This program is endorsed by the Western Association of Food Chains (WAFC) for their management career pathway.

ACCOUNTING CLERK
– CERTIFICATE OF PROFICIENCY[CTE] 769 CLOCK HOURS

Program Division: Division of Applied Technology
Program Location:South City Campus, Highland Campus
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/businessoffice/accountingclerk.aspx
Academic Advisor: Liliana Rodriguez 801-957-3469, Hector Cando 801-957-2112

Program Faculty:
Professors – Jeanne Noble, Dee Ann Jensen
Associate Professors – Sally Williams, Vonadean McFarland, Karl Jorgensen
Assistant Professors – Diego Pardo

Program Description: The Accounting Clerk Program enables students to develop entry-level skills in the office accounting and/or bookkeeping areas. The most up-to-date tools necessary for securing and maintaining employment are emphasized throughout the program. Emphasis is placed on standard accounting office procedures including presentation software (MS PowerPoint), team skills and activities, and exposure to other software packages including MS Outlook, Secretarial accounting, computer-based accounting principles, data-entry, skill building, speed and accuracy, customer service, spreadsheets (MS Excel), and word processing (MS Word) are also emphasized.

Career Opportunities:

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 43-3031.00 Bookkeeping, Accounting, and Auditing Clerks
- 43-4071.00 File Clerk
- 43-9061.00 Office Clerk

Program Entry Requirements:

Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Vocabulary: 8.0
- Reading: 10.0
- Math: 8.0
- Total Language: 10.0

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/businessoffice/accountingclerk.aspx

Estimated Time to Completion: 769 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Entry level skills in accounting and office software	1, 3, 7
Entry level skills and knowledge in bookkeeping concepts	1, 3
Entry level skills in basic office equipment and software	1

Entry level skills in office etiquette and professionalism	1, 2, 6

REQUIRED COURSES: (769 CLOCK HOURS)				
COURSE		**CLOCK HOURS**	**SEM**	**PREREQUISITE**
KAOS 0115	Keyboarding/Skillbuilding	80	A	
KAOS 0165	Comp. Ten-Key	75	A	
KAOS 0170	Computer Concepts	30	A	
KAOS 0235	Adv. Business Communications.	69	A	
KAOS 0250	Customer Service Life Skills	60	A	
KAOS 0185	Basic Word Processing	40	A	
KAOS 0260	Presentations	30	A	
KACT 0125	Comprehensive Spreadsheets	80	A	
KACT 0135	Accounting	140	A	
KACT 0170	Records Management	30	A	
KACT 0195	Comp. QuickBooks	80	A	
KAOS 0270	Data Base	40	A	
KWRK 0515	Job-Seeking Skills	15	A	

ADMINISTRATIVE OFFICE SPECIALIST – CERTIFICATE OF PROFICIENCY[CTE] 625 CLOCK HOURS

Program Division: Division of Applied Technology
Program Location: South City Campus, Highland Campus
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/businessoffice/adminofficespecialist.aspx
Academic Advisor: Liliana Rodriguez 801-957-3469, Hector Cando 801-957-2112

Program Faculty:
Professors – Jeanne Noble, Dee Ann Jensen
Associate Professors – Sally Williams, Vonadean McFarland, Karl Jorgensen
Assistant Professors – Diego Pardo

Program Description:
The Office Specialist program enables students to develop entry-level skills in the computer/office occupations area. The most up-to-date tools necessary for securing and maintaining employment are emphasized throughout the program. Emphasis is placed on keyboarding skill building, ten-key calculator skills, computer concepts, Windows, Internet, and e-mail. Further emphasis is placed on computer applications including spreadsheets, word processing, presentations, database and basic QuickBooks. Students learn business communication skills, business office procedures, customer service, and life skills training.

Career Opportunities:

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 43-9061.00 General Office Clerk
- 43-6014.00 Secretaries

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Vocabulary: 8.0
- Reading: 10.0
- Math: 8.0
- Total Language: 10.0

Total Program/Course Fees:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/businessoffice/adminofficespecialist.aspx

Estimated Time to Completion: 625 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Training and skills in computer software applications required to obtain employment	1, 7
Training and skills in office applications and equipment necessary to succeed in the workplace	1
Training and skills in written, oral, customer service and interpersonal communication	1, 2
Training and skills in job seeking, preparation, and interviewing required to be hired and succeed in the workplace	1

Entry level skills in office etiquette and professionalism	1, 6

REQUIRED COURSES: (625 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KAOS 0115	Keyboarding/Skillbuilding	80	A	
KAOS 0155	Intermediate Ten-Key	50	A	
KAOS 0170	Computer Concepts	30	A	
KAOS 0250	Customer Service Life Skills	60	A	
KAOS 0195	Comprehensive Word Processing	80	A	
KAOS 0245	Comprehensive Business Communications	90	A	
KACT 0170	Records Management	30	A	
KAOS 0260	Presentations	30	A	
KACT 0125	Comprehensive Spreadsheets	80	A	
KACT 0185	Basic QuickBooks	40	A	
KAOS 0270	Database	40	A	
KWRK 0515	Job-Seeking Skills	15	A	

CUSTOMER SERVICE RECEPTIONIST
– CERTIFICATE OF PROFICIENCY[CTE] 330 CLOCK HOURS

Program Division: Division of Applied Technology
Program Location: South City Campus, Highland Campus
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/businessoffice/customerservice.aspx
Academic Advisor: Liliana Rodriguez 801-957-3469, Hector Cando 801-957-2112

Program Faculty:
Professors – Jeanne Noble, Dee Ann Jensen
Associate Professors – Sally Williams, Vonadean McFarland, Karl Jorgensen
Assistant Professors – Diego Pardo

Program Description:
This program provides basic training in keyboarding skill building, ten-key calculator, computer concepts, Internet, and e-mail. The course also teaches telephone etiquette, professionalism, business communication skills, and introduction to word processing (MS Word) and basic spreadsheets. Special emphasis is given to customer service and life skills training. Students learn to use assertive skills and problem solving to provide quality customer service.

Career Opportunities:
For state and national occupation information, visit http://online.onecenter.org/fin/ and enter the following O*Net codes(s):

- 43-4051.00 Customer Service Representative
- 43-4081.00 Hotel, Motel, and Resort Desk Clerks
- 43-4151.00 Order Clerk
- 43-4171.00 Receptionist and Information Clerks

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Vocabulary: 8.0
- Reading: 8.0
- Math: 6.5
- Good Dexterity; Ability to sit for long periods of time

Total Program/Course Fees:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/businessoffice/customerservice.aspx

Estimated Time to Completion: 330 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students will demonstrate entry level skills in basic office equipment and software	1, 7
Students will demonstrate entry level skills in office etiquette and professionalism	1, 2, 6

REQUIRED COURSES: (330 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KAOS 0115	Keyboarding/Skillbuilding	80	A	
KAOS 0145	Basic Ten-Key	25	A	
KAOS 0170	Computer Concepts	30	A	
KAOS 0215	Basic Business Communication	40	A	
KAOS 0250	Customer Service Life Skills	60	A	
KAOS 0185	Basic Word Processing	40	A	
KACT 0115	Basic Spreadsheets	40	A	
KWRK 0515	Job-Seeking Skills	15	A	

CHEMISTRY – ASSOCIATE OF SCIENCE (AS) 66 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341, (801) 957-4944
General Information, (801) 957-4073
www.slcc.edu/chemistry
Academic Advising, SI 209, (801) 957-4858

Program Faculty:
Professor - Neil Bastian
Assistant Professors - Luther Giddings, Ron Valcarce

Program Description: The Chemistry Department offers a program leading to an Associate of Science degree. Required courses and laboratory instruction in this program provides the student the first two years of chemistry and related courses required for admission to baccalaureate major programs. Program also provides a solid foundation in chemistry necessary for admission to professional programs and for employment in chemistry-related areas.

Chemistry is also a discipline essential to training for many pre-professional fields as well as health sciences. All classes are transferable to other schools in the state system of higher education and most other universities and colleges.

Chemistry classes are offered at four levels:
1. General one-semester survey class; fulfills General Education requirements for non-technical students;
2. A two-semester health science series of inorganic, organic and biochemistry;
3. A two-semester series of pre-engineering/pre-professional general inorganic chemistry;
4. A two-semester series of organic chemistry.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1. Students will: a. demonstrate knowledge of basic chemical concepts such as IUPAC nomenclature of small inorganic compounds, balancing chemical equations, stoichiometry, states of matter and changes of state, gas chemistry, atomic and molecular structure, chemical bonding, thermodynamics, equilibrium, kinetics, and electrochemistry. b. demonstrate recall and understanding of fundamental concepts, exhibit quantitative problem solving skills, correctly interpret provided data, and apply mathematical skills.	
2. Students will: a. demonstrate knowledge of families of organic compounds including saturated and unsaturated hydrocarbons, aromatic compounds, alcohols, ethers, carbonyl compounds, and amines. b. demonstrate an understanding of stereochemistry. c. evaluate and interpret spectroscopic data as it pertains to the study of organic compounds.	

d. demonstrate the ability to correctly apply the rules of IUPAC nomenclature, correlate relationships between the physical properties and chemical reactivities of organic compounds with molecular structure and intermolecular forces, and predict the outcomes of organic reactions.	
3. Students will: a. demonstrate competence in basic laboratory skills including laboratory safety and hazardous waste disposal, safe handling and manipulation of chemicals, keeping a laboratory notebook, observation of physical and chemical properties, data analysis, and basic report writing. b. demonstrate the ability to make chemical measurements using electronic balances and volumetric glassware and fundamental chemical instrumentation such as pH meters and UV/vis spectrophotometers, and to correctly record and interpret the data. c. demonstrate the ability to make chemical measurements using advanced chemical instrumentation such as FTIR and GC/MS, and to correctly record and interpret the data. d. learn to collaborate with others in the design of chemical experiments, data collection and analysis, and report writing.	
4. Students will: a. participate in the design and implementation of advanced chemical research. b. demonstrate a familiarity with chemical literature c. work collaboratively in data collection, analysis, and report writing. d. present the results of their research at a national meeting of the American Chemical Society and/or publish their results in a recognized peer-reviewed journal.	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3

Social Science (SS)	3

NOTE: Physical Science (PS) general education component is satisfied through pre-major coursework.

REQUIRED COURSES: (34 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320
MATH 1220	Calculus II	4	A	Within the last year Math 1210 w/C grade or better
Complete ONE of the Physics sequences:				
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
PHYS 2020	College Physics II	4	A	PHYS 2010. Recommended coreq: PHYS 2025
PHYS 2025	College Physics Lab II	1	A	PHYS 2010. Recommended coreq: PHYS 2020
OR				
*PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
*PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
*PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
*PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220

*Complete this sequence for U of U Chemistry major

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
CHEM 1210	4	CHEM 1220	4
CHEM 1215	1	CHEM 1225	1
ENGL 1010	3	ENGL 2010/2100	3
MATH 1210	4	MATH 1220	4
LW	1	AI	3
STUDENT CHOICE	3		
Total	**16**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
CHEM 2310	4	CHEM 2320	4
CHEM 2315	1	CHEM 2325	1
PHYS I LECTURE	4	PHYS II LECTURE	4
PHYS I LAB	1	PHYS II LAB	1
DISTRIBUTION (2)	6	DISTRIBUTION (3)	9
Total	**16**	**Total**	**19**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first-semester courses should plan on extra time to complete the program. For students majoring in chemistry, Calculus I is considered the entry-level math class. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

The semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

DEPARTMENTAL OFFERINGS

COURSE		CR	SEM	PREREQUISITE
CHEM 1010	Intro Chemistry	3	A	
CHEM 1100	Prep Chemistry	3	A	
CHEM 1110	Elem Chemistry	4	A	MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing). Recommended Coreq: CHEM 1115
CHEM 1115	Elem Chem Lab	1	A	MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing). Recommended Coreq: CHEM 1110
CHEM 1120	Elem Bioorg	4	A	CHEM 1110. Recommended Coreq: CHEM 1125
CHEM 1125	Elem Bioorg Chem Lb	1	A	CHEM 1110. Recommended Coreq: CHEM 1120
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2000	Chemistry CO-OP	2-4	A	Departmental approval
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320

CHEMISTRY/PHYSICAL SCIENCE – ASSOCIATE OF SCIENCE (AS) 64 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341, (801) 957-4944
General Information, (801) 957-4073
www.slcc.edu/chemistry
Academic Advising, SI 209, (801) 957-4858

Program Faculty:
Professor - Neil Bastian
Assistant Professors - Luther Giddings, Ron Valcarce

Program Description: The Chemistry Department offers a program leading to an Associate of Science degree. Required courses and laboratory instruction in this program provides the student the first two years of chemistry and related courses required for admission to baccalaureate major programs. Program also provides a solid foundation in chemistry necessary for admission to professional programs and for employment in chemistry-related areas.

Chemistry is also a discipline essential to training for many pre-professional fields as well as health sciences. All classes are transferable to other schools in the state system of higher education and most other universities and colleges.

Chemistry classes are offered at four levels:
1. General one-semester survey class; fulfills General Education requirements for non-technical students;
2. A two-semester health science series of inorganic, organic and biochemistry;
3. A two-semester series of pre-engineering/pre-professional general inorganic chemistry;
4. A two-semester series of organic chemistry.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1. Students will: a. demonstrate knowledge of basic chemical concepts such as IUPAC nomenclature of small inorganic compounds, balancing chemical equations, stoichiometry, states of matter and changes of state, gas chemistry, atomic and molecular structure, chemical bonding, thermodynamics, equilibrium, kinetics, and electrochemistry. b. demonstrate recall and understanding of fundamental concepts, exhibit quantitative problem solving skills, correctly interpret provided data, and apply mathematical skills.	
2. Students will: a. demonstrate knowledge of families of organic compounds including saturated and unsaturated hydrocarbons, aromatic compounds, alcohols, ethers, carbonyl compounds, and amines. b. demonstrate an understanding of stereochemistry. c. evaluate and interpret spectroscopic data as it pertains to the study of organic compounds. d. demonstrate the ability to correctly apply the rules of IUPAC nomenclature, correlate relationships between the physical properties and	

chemical reactivities of organic compounds with molecular structure and intermolecular forces, and predict the outcomes of organic reactions.	
3. Students will: a. demonstrate competence in basic laboratory skills including laboratory safety and hazardous waste disposal, safe handling and manipulation of chemicals, keeping a laboratory notebook, observation of physical and chemical properties, data analysis, and basic report writing. b. demonstrate the ability to make chemical measurements using electronic balances and volumetric glassware and fundamental chemical instrumentation such as pH meters and UV/vis spectrophotometers, and to correctly record and interpret the data. c. demonstrate the ability to make chemical measurements using advanced chemical instrumentation such as FTIR and GC/MS, and to correctly record and interpret the data. d. learn to collaborate with others in the design of chemical experiments, data collection and analysis, and report writing.	
4. Students will: a. participate in the design and implementation of advanced chemical research. b. demonstrate a familiarity with chemical literature c. work collaboratively in data collection, analysis, and report writing. d. present the results of their research at a national meeting of the American Chemical Society and/or publish their results in a recognized peer-reviewed journal.	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (29 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320
MATH 1220	Calculus II	4	A	Within the last year Math 1210 w/C grade or better
COMPLETE ONE OF THE PHYSICS:				
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
OR				
PHYS 2210	Physics Sci & Engr I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics Sci & Engr Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
CHEM 1210	4	CHEM 1220	4
CHEM 1215	1	CHEM 1225	1
ENGL 1010	3	ENGL 2010	3
MATH 1210	4	MATH 1220	4
STUDENT CHOICE	3	AI	3
LW	1		
Total	**16**	**Total**	**15**

FALL SEMESTER		SPRING SEMESTER	
CHEM 2310	4	CHEM 2320	4
CHEM 2315	1	CHEM 2325	1
PHYS 2010	4	DISTRIBUTION (4)	12
PHYS 2015	1		
DISTRIBUTION (2)	6		
Total	**16**	**Total**	**17**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first-semester courses should plan on extra time to complete the program. For students majoring in chemistry, Calculus I is considered the entry-level math class.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

Semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

DEPARTMENTAL OFFERINGS

COURSE		CR	SEM	PREREQUISITE
CHEM 1010	Intro Chemistry	3	A	
CHEM 1100	Prep Chemistry	3	A	
CHEM 1110	Elem Chemistry	4	A	MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing). Recommended Coreq: CHEM 1115

CHEM 1115	Elem Chem Lab	1	A	MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing). Recommended Coreq: CHEM 1110
CHEM 1120	Elem Bioorg	4	A	CHEM 1110. Recommended Coreq: CHEM 1125
CHEM 1125	Elem Bioorg Chem Lb	1	A	CHEM 1110. Recommended Coreq: CHEM 1120
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2000	Chemistry CO-OP	2-4	A	Departmental approval
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320

MASS COMMUNICATION – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

Division of Communication and Performing Arts
South City Campus: SCM 1-159
General Information: (801) 957-3099
Program Information: (801) 957-**3471**
http://www.slcc.edu/communication
Academic Advisor: Cindy Clark, SSC 1-061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC 1-061MD (801) 957-3361

Program Faculty:
Professors – Carolyn Clark, Shirley Jones
Associate Professors – Nick Burns, Julie Gay, Art Kanehara
Assistant Professors – Roger Johnson, Tamra Phillips, Shirene McKay, Tyler Smith, Jay Williams

Program Description: An Associate of Science degree may be obtained while pursuing coursework in Communication. The AS requires a minimum of 63 semester credit hours with a cumulative grade-point average of 2.0 or better. Elective hours may be selected from department-approved lists to emphasize the student's interest area within communication. Communication courses range from a basic introductory course (COMM 1010) to specialized courses in broadcasting, journalism, public relations, radio, television, new media technology, and social media. CO-OP Internship (COMM 2000) is strongly recommended. Students may earn a portion of their elective credits by accepting and successfully fulfilling an available student internship within their area of interest.

The Mass Communication Center (MCC) sets the Communication Department apart from other college programs. MCC provides a valuable step between coursework and working in the real world. MCC offers students a practicum-based learning environment that supports application of skills to create and produce media for TV, radio, web and newspaper. For more information about MCC visit www.slcc.edu/mcc.

The Communication Department offers an Associate of Science Degree in Mass Communication with emphases in the following:

- Journalism & News Media
- TV Broadcast/Video Production
- Media & Communication Technology
- Public Relations
- Radio/Podcast Performance and Production

The Communication Department and MCC also collaborate to provide students independent study opportunities and valuable internships with local media partners. Each provides a greater range of experience and makes SLCC graduates more marketable. As multimedia content continues to surface in all areas of life, this degree gives students endless possibilities as they move to the workforce.

Career Opportunities:
Advertising Sales
Blogger
Commercial Producer
Computer Graphics Operator
Copywriter
Copy Editor/Proofreader
Digital Video Author
Disc Jockey (radio)
Director (broadcasting)
Floor Director (broadcasting)
Film Director
Gaffer
Graphic Designer
Grip
Journalist
Lighting Director
Media Buying
Media Marketing Specialist
News Anchor (studio)
News Editor (print & broadcast)
On-air Talent
Photo Journalist
Podcast Producer
Press Secretary
Producer (broadcasting)
Promotions Director
Production Manager
Promotion Editor
Public and Media Relations
Radio Board Operator

Radio Copywriter
Radio Promotions
Remote Broadcast Technician
Reporter (print & broadcasting)
Satellite Truck Operator (broadcasting)
Social Media Specialist
Sports Announcer
Stage Manager (studio)
Technical Director (studio)
Technical Writer
Teleprompter Operator (studio)
Traffic Director (broadcasting)
Traffic Reporter
TV Anchor
Video Editor
Video Encoder
Videographer
Website Designer
Web Publisher

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require a special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information. See SPECIAL ADVISING NOTE (below).

Estimated Cost for Students: Cost for general student supplies and texts are comparable with other General Education classes. Classes requiring registration for a lab may require a small replacement and disposable fee to cover the cost of the student's use of lab facilities and supplies.

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students completing the AS degree via Communication coursework in either Mass or Speech Communication shall: • Acquire substantive knowledge in Communication. • Be prepared for further study in Communication or in a related discipline at a four-year college or university. • Understand key concepts related to interpretive and social science studies of communication. • Demonstrate effective communication in reading, writing, speaking and listening. • Demonstrate ability to comprehend and interpret communication texts. • Write effectively for business, academic and community audiences. • Develop effective public speaking skills. • Improve listening skills in the workplace, community, and personal lives. Students completing the AS degree via Communication with the Speech Communication option must also: • Demonstrate a foundational understanding of argumentation, conflict resolution, interpersonal, small group and organizational communication. Students completing the AS degree via Communication with the Mass Communication option must also: • Demonstrate a solid foundational understanding of broadcasting, broadcast journalism, print journalism, media management and communication technology.	1 – Substantive Knowledge 2 – Communicate Effectively

Students completing the AS degree via Communication with the Speech or Mass Communication options will demonstrate the ability to think critically: • Recognize basic logical fallacies. • Monitor personal communication habits. • Use sound reasoning. • Incorporate authoritative references. • Recognize ethical considerations inherently involved in communication situations.	4 – Think Critically
Students completing the AS degree via Communication with the Speech or Mass Communication options will demonstrate the ability to be civically engaged: • Develop cultural sensitivity as a foundation for effective communication with people of diverse backgrounds. • Develop an awareness of civil rights and responsibilities for communicators in a democracy. • Articulate effectively, both orally and in writing. • Engage in informed dialogue examining conflicting points of view. • Respect others' points of view. • Develop an awareness of the role and skills required of communicators as leaders in the workplace and the community.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Effective Com	3	A	

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3

Social Science (SS)	3
Physical Science (PS)	3

NOTE: COMM 1050 is recommended for the Humanities (HU) Distribution requirement.

REQUIRED COURSES: (11 CREDITS)

COURSE		CR	SEM	PREREQUISITE
COMM 1500	Intro Mass Comm (ID)	3	A	
COMM 1800	Digital Media Tools/Techniques	4	A	
COMM 2500	Elem/Issue Digit Med(ID)	4	F, Sp	

EMPHASIS AREA COURSES (12 – 18 CREDITS)

In addition to required courses, students must also complete all courses from one Emphasis Area. Courses from the Required Courses and the Emphasis Area will total from 23 – 29 credits. Depending on the credit total from the Required Courses, the Emphasis Area, and the General Education Requirements students may also need to take an Elective Course (listed below) to reach the total minimum number of credits required to graduate (63).

JOURNALISM & NEWS MEDIA EMPHASIS

COURSE		CR	SEM	PREREQUISITE
COMM 1120	Prin of Interviewing	3	F, Sp	
COMM 1610	Jrn I: Rprtng/Wrtng	3	F, Sp	ENGL 1010
OR				
COMM 1130	Reporting for Mass Med	4	F, Sp	
COMM 1560	Radio Perf & Prod (ID)	3	F, Sp	
COMM 2200	Beg Video Production	4	F, Sp	Recommended: COMM/FLM/ENGL 1800
And choose one of the following:				
COMM 1620	Journalism II: Editing/Layout	3	F, Sp	COMM 1610 or COMM 1130
COMM 2310	Inter Video Prod-News	4	F, Sp	COMM 2200 or instructor approval and recommended: COMM 1130
COMM 2560	Adv Radio Prod	3	F, Sp	COMM 1560

TV BROADCAST/VIDEO PRODUCTION EMPHASIS

COURSE		CR	SEM	PREREQUISITE
COMM 1820	Media Content Manage	3	F, Sp	COMM/FLM/ENGL 1800 or concurrently
COMM 2200	Beg Video Production	4	F, Sp	Recommended: COMM/ FLM/ENGL 1800
COMM 2310	Inter Video Prod-News	4	F, Sp	COMM 2200 or instructor approval and recommended: COMM 1130
COMM 2510	Adv Video Prod-Doc	4	F, Sp	COMM 2200 or FLM 1055

RADIO/PODCAST PRODUCTION EMPHASIS

COURSE		CR	SEM	PREREQUISITE
COMM 1120	Prin of Interviewing	3	F, Sp	
COMM 1560	Radio Perf & Prod (ID)	3	F, Sp	
COMM 1820	Media Content Manage	3	F, Sp	COMM/FLM/ENGL 1800 or concurrently
COMM 2560	Adv Radio Prod	3	F, Sp	COMM 1560

PUBLIC RELATIONS EMPHASIS

COURSE		CR	SEM	PREREQUISITE
COMM 1610	Jrn I: Rprtng/Wrtng	3	F, Sp	ENGL 1010
COMM 2300	Intro to Public Rel	3	Sp	
COMM 2570	Intro to Visual Comm (FA)	4	F, Sp	
And choose two of the following:				
COMM 1560	Radio Perf & Prod (ID)	3	F, Sp	
COMM 2200	Beg Video Production	4	F, Sp	Recommended: COMM/FLM/ENGL 1800
COMM 2400	Social Media Tools/Strategies	3	F, Sp	

MEDIA & COMMUNICATION TECHNOLOGY
EMPHASIS

COURSE		CR	SEM	PREREQUISITE
COMM 1820	Media Content Manage	3	F, Sp	COMM/FLM/ENGL 1800 or concurrently
COMM 2400	Social Media Tools/Strategies	3	F, Sp	
COMM 2440	Web Site Design	3	A	COMM/FLM/ENGL 1800 or ART 1800
COMM 2525	Web Site Promotion	4	F, Sp	COMM/ART 2440
COMM 2570	Intro to Visual Comm (FA)	4	F, Sp	

ELECTIVES

Number of credits required will vary based on Emphasis Courses; the total minimum credits to graduate are 63.

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Prin/Public Spkg (CM,IN)	3	A	
COMM 1120	Prin of Interviewing	3	F, Sp	
COMM 1130	Reporting for Mass Med	4	F, Sp	
COMM 1250	Intro Perform Studies	3	F, Sp	
COMM 1515	Basic Audio Production	3	F, Sp	
COMM 1560	Radio Perf & Prod (ID)	3	F, Sp	
COMM 1620	Journalism II: Editing/Layout	3	F, Sp	COMM 1610 or COMM 1130
COMM 1820	Media Content Manage	3	F, Sp	COMM/FLM/ENGL 1800 or concurrently
COMM 2000	Communication CO-OP/Internship	1-6	A	Department approval
COMM 2200	Beg Video Production	4	F, Sp	Recommended: COMM/FLM/ENGL 1800
COMM 2210	TV/Film Lighting Essentials	2	F, Sp	
COMM 2220	Beginning Editing	2	A	Recommended: COMM/FLM/ENGL 1800
COMM 2250	Television Studio Prod 1	2	F, Sp	
COMM 2260	Television Field Prod 1	2	F, SP	
COMM 2300	Intro to Public Rel	3	Sp	
COMM 2310	Inter Video Prod-News	4	F, Sp	COMM 2200 or instructor approval and recommended: COMM 1130
COMM 2400	Social Media Tools/Strategies	3	F, Sp	
COMM 2440	Web Site Design	3	A	COMM/FLM/ENGL 1800 or ART 1800
COMM 2510	Adv Video Prod-Doc	4	F, Sp	COMM 2200 or FLM 1055
COMM 2525	Web Site Promotion	4	F, Sp	COMM/ART 2440
COMM 2560	Adv Radio Prod	3	F, Sp	COMM 1560
COMM 2570	Intro to Visual Comm (FA)	4	F, Sp	
COMM 2590	Advert Media & Sales	3	F, Sp	
COMM 2990	Second Year Proj	4	A	COMM 1560 or 2200

NOTE: COMM 1610 and COMM 1130 can be substituted for each other in the Communication program at SLCC. Consult an advisor in advance to find out which course transfers to your intended USHE receiving institution.

SAMPLE SCHEDULE – MASS COMMUNICATION

FALL SEMESTER		SPRING SEMESTER	
COMM 1010	3	COMM 1500	3
COMM 1800	4	COMM REQ	3-4
COMM REQ	3-4	LW	1
MATH 1030	3	CIS 1020	3
ENGL 1010	3	AI	3
		DISTRIBUTION	3-4
Total	**17-18**	**Total**	**16-18**

FALL SEMESTER		SPRING SEMESTER	
ENGL 2010	3	COMM 2500	4
COMM REQ	3-4	COMM REQ	3-4
COMM REQ	3-4	COMM ELEC	3-4

DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
Total	**15-17**	**Total**	**16-18**

For emphasis-specific sample schedules, please see the Communication Department website at www.slcc.edu/communication or consult with your advisor.

Advising Notes: Students are strongly encouraged to take ENGL 1010 and COMM 1010 during their first semester.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. The semesters in which courses are taught are listed above. Students should check the current class schedule for availability of courses at all sites for day/evening availability and for modification caused by varying enrollments.

SPECIAL ADVISING NOTE for students interested in majoring in Communication at the University of Utah

About 25% of University of Utah Communication students transfer from SLCC.
You are strongly encouraged to get your COMM degree at SLCC before transferring.
A degree in COMM from SLCC benefits you financially as well as provides a solid curricular foundation:

- 4 SLCC COMM courses may be transferred to your UofU COMM degree; you'll need a 2.75 SLCC GPA
- You may take the one-credit UofU course, COMM 3060 Transfer Interest Group (TIG), during Spring semester at the South City campus, for reduced tuition while still a student at SLCC.
- The TIG course will familiarize you with the UofU's Communication program, instructors, staff, and facilities.
- Complete the TIG course and you will receive higher priority for UofU enrollment.
- Complete the TIG course and you can declare your UofU Communication major upon admission, one semester earlier than other transfer students.

SLCC students are strongly encouraged to take the TIG course, but it is not required to transfer. Students can still complete 9 credit hours at the UofU (including at least one UofU Communication course with a C or better), earn a 2.75 UofU GPA, and declare the Communication major.

SPEECH COMMUNICATION – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

Division of Communication and Performing Arts
South City Campus: SCM 1-159
General Information: (801) 957-3099
Program Information:
http://www.slcc.edu/communication
Academic Advisor: Cindy Clark, SSC 1.061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC 1.061MD (801) 957-3361

Program Faculty:
Professors – Carolyn Clark, Shirley Jones
Associate Professors – Nick Burns, Julie Gay, Art Kanehara
Assistant Professors – Roger Johnson, Tamra Phillips, Shirene McKay, Tyler Smith, Jay Williams

Program Description: An Associate of Science degree may be obtained while pursuing coursework in Communication. The AS requires a minimum of 63 semester credit hours with a cumulative grade-point average of 2.0 or better (2.6 or better is required for students transferring to the University of Utah). Elective hours may be selected from department-approved lists to emphasize the student's interest area within communication. Communication courses range from basic introductory course (COMM 1010) to specialized courses in broadcasting, journalism, public relations, rhetoric, persuasion, interpersonal communication, small group communication, organizational communication, public speaking and conflict resolution. CO-OP Internship (COMM 2000) is strongly recommended. Students may earn a portion of their elective credits by accepting and successfully fulfilling an available student internship within their area of interest.

The Mass Communication Center (MCC) sets the Communication Department apart from other college programs. MCC provides a valuable step between coursework and working in the real world. The Communication Department and MCC also collaborate to provide students independent study opportunities and valuable internships. For more information about MCC visit www.slcc.edu/mcc.

Career Opportunities: Administrative Aide/Consultant, Business Manager, Child Language Specialist, Community Affairs Specialist, Communication Analyst, Community Relations Specialist, Communication Researcher, Corporate Trainer, Crisis Manager, Development (fund raising), Diversity Consultant, Issues Advocate, Events Planner, Negotiation Director, Lobbyist, Political Analyst, Publicist, Speech Writer/Coach, etc.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information. See SPECIAL ADVISING NOTE (below).

Estimated Cost for Students: Cost for general student supplies and texts are comparable with other General Education classes. Classes requiring registration for a lab may require a small replacement and disposable fee to cover the cost of the student's use of lab facilities and supplies.

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students completing the AS degree via Communication coursework in either Mass or Speech Communication shall: • Acquire substantive knowledge in Communication. • Be prepared for further study in Communication or in a related discipline at a four-year college or university. • Understand key concepts related to interpretive and social science studies of communication. • Demonstrate effective communication in reading, writing, speaking and listening. • Demonstrate ability to comprehend and interpret communication texts.	1 – Substantive Knowledge 2 – Communicate Effectively

• Write effectively to business, academic and community audiences. • Develop effective public speaking skills. • Improve listening skills in the workplace, community, and personal lives. Students completing the AS degree via Communication with the Speech Communication option must also: • Demonstrated a foundational understanding of argumentation, conflict resolution, interpersonal, small group and organizational communication. Students completing the AS degree via Communication with the Mass Communication Option must also: • Demonstrate a solid foundational understanding of broadcasting, broadcast journalism, print journalism, media management and communication technology.	
Students completing the AS degree via Communication with the Speech or Mass Communication options will demonstrate the ability to think critically: • Recognize basic logical fallacies. • Monitor their own communication habits. • Use sound reasoning. • Incorporate authoritative references. • Recognize ethical considerations inherently involved in communication situations.	4 – Think Critically
Students completing the AS degree via Communication with the Speech or Mass Communication options will demonstrate the ability to be civically engaged: • Develop cultural sensitivity as a foundation for effective communication with people of diverse backgrounds. • Develop an awareness of civil rights and responsibilities for communicators in a democracy. • Articulate effectively, both orally and in writing. • Engage in informed dialogue examining conflicting points of view. • Respect others' points of view. • Develop an awareness of the role and skills required of communicators as leaders in the workplace and the community.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Effective Com	3	A	

DISTRIBUTION AREAS:
Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: COMM 1050 is recommended for the Humanities (HU) Distribution requirement.

REQUIRED COURSES: (6-9 CREDITS)

Select 6-9 credits from the following courses which articulate to the Communication Major at the University of Utah. Students are encouraged to complete all three courses:

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Prin/Public Spkg (CM,IN)	3	A	
COMM 1270	Analysis of Argument	3	F, Sp	
COMM 2110	Interpers Comm (ID, HR)	3	F, Sp	

SPEECH COMMUNICATION COURSES: (SELECT 6 – 10 CREDITS FROM THE FOLLOWING)

COMM 1080	Conflict Mgt/Div(SS,DV)	3	F, Sp	
COMM 1120	Prin of Interviewing	3	F, Sp	
COMM 2000	Comm CO-OP/Intern	2-4	A	Departmental approval
COMM 2120	Small Group Comm	3	F, Sp	
COMM 2150	Intercultural Comm (ID, DV)	3	A	
COMM 2170	Organizational Comm	3	F, Sp	
COMM 2020	Persuasion Practices	3	F, Sp	

ELECTIVES
Select 13-14 credits from any college level course numbered 1000 or higher.

SAMPLE SCHEDULE – SPEECH COMMUNICATION

FALL SEMESTER		SPRING SEMESTER	
COMM 1010	3	COMM 1020	3
MATH 1030	3	HLAC	1
ENGL 1010	3	DISTRIBUTION	3
DISTRIBUTION	3	COMM 1050	3
		AI	3
		COMM REQ OR ELEC	3
Total	**12**	**Total**	**16**

FALL SEMESTER		SPRING SEMESTER	
ENGL 2010	3	COMM 2110	3
COMM 1270	3	COMM REQ	3
COMM REQ	3	ELEC	3
DISTRIBUTION (2)	6	ELEC	3
		DISTRIBUTION	3
Total	**15**	**Total**	**15**

Advising Notes: Students are strongly encouraged to take ENGL 1010 and COMM 1010 during their first semester.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. The semesters in which courses are taught are listed above. Students should check the current class schedule for availability of courses at all sites for day/evening availability and for modification caused by varying enrollments.

SPECIAL ADVISING NOTE for students interested in majoring in Communication at the University of Utah:

About 25% of University of Utah Communication students transfer from SLCC.
You are strongly encouraged to get your COMM degree at SLCC before transferring.
A degree in COMM from SLCC benefits you financially as well as provides a solid curricular foundation:

- 4 SLCC COMM courses may be transferred to your UofU COMM degree; you'll need a 2.75 SLCC GPA
- You may take the one-credit UofU course, COMM 3060 Transfer Interest Group (TIG), during Spring semester at the South City campus, for reduced tuition while still a student at SLCC.
- The TIG course will familiarize you with the UofU's Communication program, instructors, staff, and facilities.
- Complete the TIG course and you will receive higher priority for UofU enrollment.
- Complete the TIG course and you can declare your UofU Communication major upon admission, one semester earlier than other transfer students.

SLCC students are strongly encouraged to take the TIG course, but it is not required to transfer. Students can still complete 9 credit hours at the UofU (including at least one UofU Communication course with a C or better), earn a 2.75 UofU GPA, and declare the Communication major.

VIDEO OR RADIO PRODUCTION – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 66 credits minimum

Division of Communication and Performing Arts
South City Campus: SCM 1-159
General Information: (801) 957-3099
Program Information: (801) 957-3471
http://www.slcc.edu/communication
Academic Advisor: Cindy Clark SCC 1-061ME (801) 957-3361
Academic Advising: Gordon Storrs SCC 1-061MD (901) 957-3361

Program Faculty:
Professors – Carolyn Clark, Shirley Jones
Associate Professors – Nick Burns, Julie Gay, Art Kanehara
Assistant Professors – Roger Johnson, Tamra Phillips, Shirene McKay, Tyler Smith, Jay Williams

Program Description: The Communication Department offers an Associate of Applied Science (AAS) degree in Video Production or Radio Production. This degree gives students hands-on experience and the opportunity to gain in-depth knowledge to go directly into the workplace. Students studying in this program will learn to effectively use aesthetic theories of visual imaging and sound throughout the production process, through a combination of lectures, studio and field production, post-production editing, and multimedia delivery.

Courses in the program are all learning-based and are designed to engage students to participate in the material presented in the classroom. Students learn to become active participants in media, rather than mere passive receivers of information. As students participate in coursework, they become media literate and begin to broaden their knowledge, think critically, communicate effectively, and grow through ethical considerations and civic engagement.

The Communication Department strongly encourages interdepartmental collaboration and provides important opportunities for students in all areas of study to learn and incorporate multimedia content in each of their courses.

The Mass Communication Center (MCC) sets the Communication Department apart from other college programs. MCC provides a valuable step between coursework and working in the real-world. MCC offers students a paid learning environment that supports application of skills to create and produce media for a wide variety of real-world clients. For more information about MCC visit www.slcc.edu/mcc

The Communication Department and MCC also collaborate to provide students independent study opportunities and valuable internships with local media partners. Each providing greater range of experience and assisting SLCC graduates to be more marketable. As multimedia content continues to surface in all areas of life, this degree gives students endless possibilities as they move to the workforce.

Career Opportunities:
Disc Jockey (radio)
Director (broadcasting)
Floor Director (broadcasting)
Film Director
Gaffer
Graphic Designer
Grip
Journalist
Lighting Director
Media Buying
Media Marketing Specialist
News Anchor (studio)
News Editor (print & broadcast)
Photo Journalist
Producer (broadcasting)
Production Manager
Program Developer
Program Acquisition Specialist

Promotion Editor
Props Master
Radio Host
Reporter (print & broadcasting)
Satellite Truck Operator (broadcasting)
Sports Announcer
Stage Manager (studio)
Technical Director (studio)
Teleprompter Operator (studio)
Traffic Director (broadcasting)
TV Anchor
Video Editor
Video Encoder
Videographer

Transfer/Articulation Information: Although the Video or Radio Production Associate of Applied Science degree program is designed primarily to provide students with entry level skills to enter the job market, some of the courses may apply toward a bachelor's degree. Students interested in pursuing professional Broadcasting, Video or Audio at a four-year institution should obtain advising regarding the requirements and course selection criteria for the bachelor's program. See SPECIAL ADVISING NOTE (below).

Estimated Cost for Students: Cost for general student supplies and texts are comparable with other General Education classes. Classes requiring registration for a lab may require a small replacement and disposable fee to cover the cost of the student's use of lab facilities and supplies.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
The students will demonstrate entry level professional production skills such as beginning video editing; media writing; and web design.	1, 3
Students in the video specialization area will be able to deliver media in different formats.	2, 4
Students in the audio specialization area will be able to deliver media in different formats	2, 4
Students will demonstrate the ability to understand and comprehend our market media system.	2, 3, 4
The students will experience hands-on application of their production skills such as internships at television and radio stations.	1, 2 3, 5
The students will leave the program with a marketable demo reel/portfolio.	2, 4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Interm Algebra	4	A	RDG 0990; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	COMM 1010
COMM 1020	Prin Public Speaking	3	A	COMM 1020
CTEL 1020	Career Speech Skills	3	A	CTEL 1020

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (41-43 CREDITS)

COURSE		CR	SEM	PREREQUISITE
COMM 1130	Reporting for Mass Med	4	F, Sp	
COMM 1250	Intro Perform Studies	3	F, Sp	
COMM 1500	Intro Mass Comm (ID)	3	A	
COMM 1515	Basic Audio Production	3	F, Sp	
COMM 1800	Digital Media Tools/Techniques	4	A	
COMM 2000	Comm CO-OP/Intern	2-4	A	Departmental approval
COMM 2200	Beg Video Prod	4	F, Sp	Recommended: COMM/ FLM/ENGL 1800 or ART 1800
COMM 2440	Web Site Design	3	A	COMM/ FLM/ENGL 1800 or ART 1800
	Or			
COMM 1820	Media Content Manage	3	F, Sp	COMM/ ENGL/FLM 1800 or concurrently
COMM 2500	Elem/Issue Digit Med(ID)	4	F, Sp	
COMM 2570	Intro to Visual Comm (FA)	4	F, Sp	
COMM 2990	Second Year Proj	4	A	COMM 1560 or 2200

NOTE: COMM 1610 and COMM 1130 can be substituted for each other in the Communication program at SLCC.

EMPHASIS COURSES: (6-8 CREDITS)

Choose a specialization area (Video or Radio) and complete those questions:

VIDEO PRODUCTION

COURSE		CR	SEM	PREREQUISITE
COMM 2310	Inter Video Prod-News	4	F, Sp	COMM 2200 or instructor approval and recommended: COMM 1130
COMM 2510	Adv Video Prod-Doc	4	F, Sp	COMM 2200 or FLM 1055

RADIO PRODUCTION

COURSE		CR	SEM	PREREQUISITE
COMM 1560	Radio Perf & Prod (ID)	3	F, Sp	
COMM 2560	Adv Radio Prod	3	F, Sp	COMM 1560

ELECTIVE COURSES:

Choose one or more elective courses according to special interests and as schedule permits. Students can also take other specialization courses are electives.

COURSE		CR	SEM	PREREQUISITE
COMM 1120	Prin of Interviewing	3	F, Sp	
COMM 1620	Journalism II – Editing/Layout	3	F, Sp	COMM 1610 or COMM 1130
COMM 1820	Media Content Manage	3	F, Sp	COMM/ ENGL/FLM 1800 or concurrently
COMM 2300	Intro to Public Rel	3	Sp	
COMM 2400	Social Media Tools/Strategies	3	F, Sp	

COMM 2440	Web Site Design	3	A	COMM/ FLM/ENGL 1800 or ART 1800
ART 1810	Int Photoshop/Multimed	2	F, Sp	COMM/ART/FLM/ENGL/EBT 1800

NOTE: The number of internship hours determines number of hours students have available for electives to meet AAS credit hour requirements (66-69 total). Other electives may be selected with prior COMM department approval. Among disciplines with applicable electives are: Writing, Accounting, Dance, Film, Music, Business, Web Development, Visual Art & Design, Animation, Production Art, Photography, Image Editing, Personal Finance, Art History, Theater, and Multimedia Authoring.

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
COMM 1010/1020 (CM)	3	COMM 1500	3
COMM 1515	3	COMM 1130	4
COMM 1800	4	COMM 2110 (HR)	3
COMM 2570	4	COMM 2200	4
ENGL 1010 (EN)	3	DISTRIBUTION	3
Total	**17**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
EMPHASIS	3-4	EMPHASIS	3-4
COMM 1250	3	COMM 2500	4
COMM 2000	1-6	COMM 2990	3
COMM 2440/1820	3	ELEC	3-6
MATH 1010 (QS)	4		
Total	**14-20**	**Total**	**13-20**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

For the Human Relations General Education Requirement, we recommend that our students take COMM 2110 as Interpersonal Communication is key when working in media production fields where team and group work is essential.

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- The TIG course will familiarize you with the UofU's Communication program, instructors, staff, and facilities.
- Complete the TIG course and you will receive higher priority for UofU enrollment.
- Complete the TIG course and you can declare your UofU Communication major upon admission, one semester earlier than other transfer students.

SLCC students are strongly encouraged to take the TIG course, but it is not required to transfer. Students can still complete 9 credit hours at the UofU (including at least one UofU Communication course with a C or better), earn a 2.75 UofU GPA, and declare the Communication major.

COMPUTER SUPPORT SPECIALIST (A+) – CERTIFICATE OF PROFICIENCY[CTE] 615 Clock Hours

Program Division: Division of Applied Technology
Program Location: Meadowbrook Campus, Building B, Room 127
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/computernetwork/computersupport.aspx
Academic Advisor: Gloria Rivera, SCC SCM 1-061L, (801) 957-3209

Program Faculty:
Associate Professor – Kathy Himle

Program Description:

The Computer Support Specialist program covers system assembly, computer repair, troubleshooting skills, network support, customer service, and software installation. Various electives and operating systems are offered, including Mac, Windows and Linux. Skills obtained in this program leading to industry certifications include CompTIA A+ and Network+, Microsoft MCTS, Microsoft MTA, Security+, and Linux.

Career Opportunities:

The successful Computer Support Specialist student gains many transferable skills leading to immediate employment or leading to other careers such as a computer technician, e-mail administrator, desktop support, call center technician, help desk technician, network administrator, systems administrator, or systems manager.

For state and national occupation information, visit http://www.onetonline.org/find/ and enter the following O*Net code:

- 15-1041.00 Computer Support Specialist
- 15-1151.00 Computer User Support Specialists
- 33-9032.00 Security Guard
- 13-1199.02 Security Management Specialist
- 49-2098.00 Security and Fire Alarm Systems Installers
- 33-9093.00 Transportation Security Screeners

Program Entry Requirements: Reading 8 and Math 8 according to TABE

REQUIRED COURSES: (315 CLOCK HOURS)

COURSE	Clock Hours	SEM	PREREQUISITE
KCMS 0136 Computer Components	75	A	
KCMS 0140 Storage and Multimedia	75	A	KCMS 0136 Computer Components
KCMS 0151 Wired and Wireless	75	A	KCMS 0140 Storage and Multimedia
KCMS 0180 Software and Security	75	A	KCMS 0151 Wired and Wireless
KWRK 0515 Job-seeking Skills	15	A	

ELECTIVE COURSES: (SELECT 300 CLOCK HOURS FROM THE FOLLOWING)

COURSE	Clock Hours	SEM	PREREQUISITE
CompTIA Network+ Certification			
KCMS 0240 Intro to Networking Technology	75	A	
KCMS 0250 Advanced Network Technology	75	A	KCMS 0240 Intro to Networking Technology
CompTIA Security+ Certification			
KCMS 0440 Intro to Security Principles	75	A	KCMS 0250 or instructor approval
KCMS 0450 Advanced Security Principles	75	A	KCMS 0440 Intro to Security Principles
Microsoft Certification			
KNWE 0680 Configuring Windows Clients	75	A	
KNWE 0780 Maintaining Windows Clients	75	A	KNWE 0680 Configuring Windows Clients
Microsoft MTA			
KCMS 0810 MTA Network Fundamentals	50	A	
KCMS 0820 MTA Security Fundamentals	50	A	
KCMS 0830 MTA Windows SVR Admin	50	A	

KCMS 0840 MTA Windows OS Fundamentals	50	A	
Customer Service			
KCMS 0350 Customer Service/Help Desk	75	A	
Externship			
KCMS 0201 Basic Externship	75	A	
KCMS 0202 Advanced Externship	75	A	KCMS 0201 Basic Externship
Linux Certification			
KCMS 0415 Linux Administration	75	A	
Macintosh Training			
KCMS 0500 Mac OS X Essentials	75	A	
KCMS 0520 Advanced MAC OS X	75	A	KCMS 0500 Mac OS X Essentials

NETWORK ADMINISTRATOR (MCITP:SA) – CERTIFICATE OF PROFICIENCY[CTE] 645 Hours

Program Division: Applied Technology
Program Location: Meadowbrook Campus, Building B, Room 133
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/computernetwork/networkadmin.aspx
Academic Advisor: Gloria Rivera, SCC SCM 1-061L, (801) 957-3209

Program Faculty:
Associate Professors – Douglas Miller

Program Description:

The program provides courses required by Microsoft for the MCTS and MCITP:SA certification titles. Students receive guidance from certified instructors throughout this intensive "hands-on" training program as they learn to install, configure, manage, secure and troubleshoot the latest Windows Client and Server operating systems and services in a Windows domain environment. The training can also be used as a step in preparation to take industry exams to earn Microsoft Certified Technology Specialist (MCTS) and Windows 2008 Microsoft Certified Information Technology Professional: Server Administrator (MCITP:SA) titles.

A broad range of client, server, and network management topics are covered in this program including: file and print services, directory services, user and group account management, automation of tasks through scripts, remote management and administration, domain controller management, software distribution and updates, Terminal Services, audit policies, vulnerability assessment, firewall configuration, network access protection, encryption, data backup and recovery, disaster prevention, cluster services, network load balancing, DNS, DHCP, TCP/IP subnetting, Group Policy, VPN configuration, Terminal Services, Routing, Patch Management, operating system virtualization, and Hyper-V

Career Opportunities:

For state and national occupation information, visit http://onlinelonetcenter.org/find and enter the following O*Net codes:

- 15-1041.00 Computer Support Specialist
- 15-1071.00 Network and Computer Systems Administrators

The Network Administrator program graduate gains many transferable skills leading to employment opportunities in job roles such as Network Administrator, Systems Support Analyst, Network Technician, Network Specialist, NOC Engineer, Systems Administrator, IT Manager, Desktop Support, Call Center Technician, and Help Desk Technician.

Transfer/Articulation Information: Please check with the department for current articulation information.

Program Entry Requirements: Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
Reading 10
Math 9

Estimated Cost for Students: Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/computernetwork/networkadmin.aspx

Estimated Time to Completion: 645 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Demonstrate proficiency and knowledge required to implement, troubleshoot, and manage Windows client operating systems in a network environment.	1, 3, 4, 6, 7
Demonstrate proficiency and knowledge required to implement, manage, and troubleshoot Microsoft Windows Active Directory, Directory Services (including user, group, and computer account management, Group Policy design and implementation, Trust Relationships, Replication, and Domain	1, 3, 4, 6, 7

Controller configuration.	
Demonstrate proficiency and knowledge to implement, manage, and troubleshoot core infrastructure services including DNS, TCP/IP, DHCP, Routing, Remote Access, Network Protection, Patch Management, Firewall Configuration, and IPSec.	1, 3, 4, 6, 7
Demonstrate proficiency and knowledge to implement, manage, and troubleshoot core server roles and management tasks including server deployment and installation, file and print services, data management, data protection, application deployment, server virtualization, high availability, and performance optimization.	1, 3, 4, 6, 7

REQUIRED COURSES: (645 HOURS)

COURSE	CH	SEM	PREREQUISITE
KNWE 0680 Configuring Windows Clients	75	A	
KNWE 0780 Maintaining Windows Clients	75	A	KNWE 0680 Configuring Windows Clients
KNWE 0642 Network Infrastructure Intro	75	A	
KNWE 0742 Network Infrastructure Implementation	75	A	KNWE 0642 Network Infrastructure Intro
KNWE 0640 Active Directory Admin	90	A	
KNWE 0740 Active Directory Infrastructure	90	A	KNWE 0640 Active Directory Admin
KNWE 0646 Server Admin 1	75	A	
KNWE 0746 Server Admin 2	75	A	KNWE 0646 Server Admin 1
KWRK 0515 Job-seeking Skills	15	A	

Advising Notes:

It is recommended that students have CompTIA A+ equivalent knowledge to enter this program (A+ certification is not required). Those with limited or no previous computer network experience should consider enrolling in the Computer Support Specialist program prior to seeking enrollment in the Network Administrator program. Students who are unsure if they meet the minimum requirements should contact the instructor prior to enrolling.

Additional Program Notes:

NETWORK ENGINEER – CERTIFICATE OF PROFICIENCY[CTE] 855 Hours

Program Division: Division of Applied Technology
Program Location: Meadowbrook Campus, Building B
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/computernetwork/networkengineer.aspx
Academic Advisor: Gloria Rivera, SCC SCM 1-061L, (801) 957-3209

Program Faculty:
Associate Professor – Douglas Miller

Program Description:

This training program can be used as a step to gaining valuable industry recognized certification titles including Microsoft Certified Technology Specialist (MCTS), Microsoft Certified IT Professional: Server Administrator (MCITP:SA), and Cisco Certified Network Associate (CCNA). Students learn through "hands-on" training using the latest Microsoft and Cisco course materials to plan, support, manage, and troubleshoot enterprise network environments.

A broad range of client, server, and network management topics are covered in this program including: Cisco router and switch configuration, SharePoint services, Web server management, SCCM 2007, file and print services, directory services, user and group account management, automation of tasks through scripts, remote management and administration, domain controller management, software distribution and updates, Terminal Services, audit policies, vulnerability assessment, firewall configuration, network access protection, encryption, data backup and recovery, disaster prevention, RAID configuration, cluster services, network load balancing, DNS, DHCP, TCP/IP subnetting, Group Policy, VPN configuration, Terminal Services, Routing, Patch Management, operating system virtualization, and Hyper-V.

Career Opportunities:

For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 15-1041.00 Computer Support Specialist
- 15-1071.00 Network and Computer Systems Administrators
- 15-1081.00 Network Systems and Data Communications Analysts

Transfer/Articulation Information: Please check with the department for current articulation information

Program Entry Requirements: Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
Reading 10
Math 9

Estimated Cost for Students: Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/computernetwork/networkengineer.aspx

Estimated Time to Completion: 855 Clock Hours

Specialized Accreditation: Cisco Network Academy

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Demonstrate proficiency and knowledge required to implement, troubleshoot, and manage Windows client operating systems in a network environment.	1, 3, 4, 6, 7
Demonstrate proficiency and knowledge required to implement, manage, and troubleshoot Microsoft Windows Active Directory Services (including user, group, and computer account management, Group Policy design and implementation, Trust Relationships, Replication, and Domain Controller configuration.	1, 3, 4, 6, 7
Demonstrate proficiency and knowledge to implement, manage, and troubleshoot core infrastructure services including DNS, TCP/IP, DHCP,	1, 3, 4, 6, 7

Routing, Remote Access, Network Protection, Patch Management, Firewall Configuration, and IPSec.	
Demonstrate proficiency and knowledge to implement, manage, and troubleshoot core server roles and management tasks including server deployment and installation, file and print services, data management, data protection, application deployment, server virtualization, high availability, and performance optimization.	1, 3, 4, 6, 7
Demonstrate the ability to plan and design core network and server services including name resolution, trust relationships, Group Policy, IP Addressing, Network Access Policies, Application Deployment, Public Key Infrastructure, RAIDIUS, Branch Office Deployment, and directory services.	1, 3, 4, 6, 7

REQUIRED COURSES: (855 CLOCK HOURS)

COURSE	CLOCK HOURS	SEM	PREREQUISITE
KNIT 0751 Routing and Switching I (CCNA)	90	A	
KNIT 0756 Routing and Switching II (CCNA)	90	A	KNIT 0751 Routing and Switching I (CCNA)
KNIT 0760 Routing and Switching III (CCNA)	90	A	KNIT 0756 Routing and Switching II (CCNA)
KNIT 0765 Routing and Switching IV (CCNA)	90	A	KNIT 0765 Routing and Switching IV (CCNA)
KNWE 0642 Network Infrastructure Intro	75	A	
KNWE 0742 Network Infrastructure Implementation	75	A	KNWE 0642 Network Infrastructure Intro
KNWE 0640 Active Directory Admin	90	A	
KNWE 0740 Active Directory Infrastructure	90	A	KNWE 0640 Active Directory Admin
KNWE 0646 Server Admin 1	75	A	
KNWE 0746 Server Admin 2	75	A	KNWE 0646 Server Admin 1
KWRK 0515 Job-seeking Skills	15	A	

Advising Notes:

It is recommended that students have CompTIA A+ equivalent knowledge to enter this program (A+ certification is not required). Those with limited or no previous computer network experience should consider enrolling in the Computer Support Specialist program prior to seeking enrollment in the Network Administrator program. Students who are unsure if they meet the minimum requirements should contact the instructor prior to enrolling.

Additional Program Notes:

NETWORK INFRASTRUCTURE TECHNICIAN – CERTIFICATE OF PROFICIENCY[CTE] 825 Clock Hours

Program Division: Division of Applied Technology
Program Location: Meadowbrook Campus, Building B, Room 133
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/computernetwork/networkinfrastructure.aspx
Academic Advisor: Gloria Rivera, SCC SCM 1-061L, (801) 957-3209

Program Faculty:
Associate Professors – Douglas Miller

Program Description:

This program is designed to prepare students for entry-level career opportunities, continuing education, and completing globally recognized certifications (CCENT and CCNA) in order to support, install and maintain computer networking infrastructures. Students learn to install, configure, operate, and troubleshoot medium-sized router and switched networks, including implementation and verification of connections to remote sites in a WAN. The curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills. This curriculum also includes (but is not limited to) the use of these networking protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, access control lists (ACLs).

Career Opportunities:

For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 15-1081.00 Network Systems and Data Communication Analysts
- 15-1071.00 Network and Computer Systems

Transfer/Articulation Information: Please check with the department for current articulation information

Program Entry Requirements: Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
Reading 10
Math 9

Estimated Cost for Students: Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/computernetwork/networkinfrastructure.aspx

Estimated Time to Completion: 825 Clock Hours

Specialized Accreditation: Cisco Network Academy

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will learn to design, install, and support an organization's local-area network (LAN)	1,2,3,4,6,7
Maintain network hardware and software, analyze problems, and monitor the network to ensure its availability to system users.	1,2,3,4,6,7
Plan, coordinate, and implement recommendations for enhancements of networks.	1,2,3,4,6,7
Students will develop customer service and communication skills to work with clients.	1,2,3,4,6,7

REQUIRED COURSES: (675 CLOCK HOURS)

COURSE	Clock Hours	SEM	PREREQUISITE
KCMS 0136 Computer Components	75	A	
KCMS 0140 Storage and Multimedia	75	A	KCMS 0136 Computer Components
KCMS 0151 Wired and Wireless	75	A	KCMS 0140 Storage and Multimedia

KCMS 0180 Software and Security	75	A	KCMS 0151 Wired and Wireless
KNIT 0751 Routing and Switching I	90	A	KCMS 0180 Software and Security or Instructors Permission
KNIT 0756 Routing and Switching II	90	A	KNIT 0751 Routing and Switching I
KNIT 0760 Routing and Switching III	90	A	KNIT 0756 Routing and Switching II
KNIT 0765 Routing and Switching IV	90	A	KNIT 0760 Routing and Switching III
KWRK 0515 Job-Seeking Skills	15	A	

ELECTIVE COURSES: (150 CLOCK HOURS)

COURSE	Clock Hours	SEM	PREREQUISITE
Electives: Choose one of the three elective tracks listed below			
Elective Track One			
KCMS 0240 Intro to Networking Technology	75	A	
KCMS 0250 Advanced Network Technology	75	A	KCMS 0240 Intro to Networking Technology
Elective Track Two			
KNIT 0780 Intro to Wireless Systems	75	A	
KNIT 0785 Advanced Wireless Systems	75	A	KNIT 0780 Intro to Wireless Systems
Elective Track Three (Choose 3 courses)			
KCMS 0810 MTA Network Fundamentals	50	A	
KCMS 0820 MTA Security Fundamentals	50	A	
KCMS 0830 MTA Windows SVR Admin	50	A	
KCMS 0840 MTA Windows OS Fundamentals	50	A	

Advising Notes: Students wishing to take only the Routing and Switching courses will need instructor's permission.

Additional Program Notes:

Certifications

Course offered in this program directly reflect the most current requirements for certifying in the following areas:

- CCENT: The Cisco Certified Entry Networking Technician certification validates candidate's ability to install, operate, and troubleshoot a small enterprise branch network and perform basic network security tasks.
- CCNA: The Cisco Certified Network Associate certification validates candidate's ability to install, configure, operate, and troubleshoot medium-sized routed and switched networks, and implement and verify connections to remote sites in a wide-area network (WAN).

COMPUTER SCIENCES AND INFORMATION SYSTEMS – ASSOCIATE OF SCIENCE (AS)

61 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler, Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description:

The Computer Sciences and Information Systems AS Degree prepares students to pursue a Bachelor's degree in a variety of highly technical degree programs such as a BS in Computer Science or Business Information Systems. The CSIS Department offers Certificates of Proficiency (CP) in the following areas:

Business and Personal Computing CP (18 credits)
Computer Science Fundamentals CP (16 credits)
Database Information Systems and Technology CP (16 credits)
Linux System Administration CP (16 credits)
Mobile Application Development CP (16 credits)
Network and Cyber Security CP (16 credits)
Network and System Administration CP (16 credits)
Network Routing and Switching CP (16 credits)
Software Development CP (17 credits)
Software Engineering CP (16 credits)
Web Programming and Development CP (16 credits)
Windows System Administration CP (16 credits)



Choose any two (2) of the above Certificates of Proficiency. Completion of the General Education requirements (34 CREDITS) and two (2) Certificates of Proficiency (27 CREDITS MINIMUM) allows a student to be eligible to apply for an Associate of Science Degree in Computer Sciences and Information Systems.

The AS Degree is designed as a transfer degree for students who intend to continue their studies towards a Bachelor's Degree at a 4-year institution. Articulation between different 4-year institutions and the above Certificates of Proficiency vary. The student is strongly encouraged to discuss this with the CSIS Academic Advisor to help choose two Certificates of Proficiency and maximize the number of articulated courses with the institution to which the student intends to transfer. Some Bachelor's Degrees are offered at Salt Lake Community College through the University Center.

Career Opportunities: Computer and Information Scientist, Computer Programmer, Computer Software Engineer, Computer Support Specialist, Computer Systems Analyst, Database Administrator, Network and Computer Systems Administrator, Computer Security Specialist, Network Systems and Data Communications Analyst, Software Quality Assurance Engineer and Tester, Network Designer, Web Developer, Web Administrator, Database Architect, Data Warehousing Specialist, Business Intelligence Analyst, Information Technology Project Manager, Game Designer, Document Management Specialist.

Transfer/Articulation Information: The Computer Sciences and Information Systems AS degree is designed to transfer to different programs throughout the state of Utah, including Dixie State College, Southern Utah University, University of Utah, Utah State University, Utah Valley University, Weber State University and Westminster College. Students transferring into a Computer Science program at a 4-year institution should select the Computer Science Fundamentals (CP) and Software Development (CP) for ease of transfer. Students are strongly encouraged to discuss their areas of study and specific transfer requirements with the CSIS Academic Advisor.

Estimated Time to Completion: Time to completion is four semesters if the student follows the suggested semester schedule.

Specialized Accreditation: The Computer Sciences and Information Systems associate degree programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree granting business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. From a set of requirements; analyze, design, code, test and document programs to meet requirements. 2. Create and utilize database tables, forms, reports and queries. 3. Demonstrate knowledge of operating systems and its interaction with programs, data, hardware, and users. 4. Understand the mapping between software and hardware solutions. 5. Perform network management tasks. 6. Efficiently use common business software including word processing, spreadsheets, and presentations. 7. Develop Web applications.	1 – Acquire Substantive Knowledge
1. Communicate effectively electronically 2. Communicate effectively verbally.	2 – Communicate Effectively
1. Use appropriate functions, filters and queries to perform data analyses and make informed decisions. 2. Perform the necessary numerical calculations and operations to solve problems.	3 – Develop Quantitative Literacy
1. Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions. 2. Analyze a set of requirements for software or network solutions. 3. Design a database that will organize complex data.	4 – Think Critically
1. Develop the awareness and skills to take leadership roles in the classroom and in group activities.	5 – Develop Knowledge and Skills for Civic Engagement
1. Work cooperatively with fellow students through group work and course assignments. 2. Understand and develop the skills to effectively participate in a business organization.	6 – Work with Others in a Professional Manner
1. Use hardware and software to complete assignments. 2. Gather and analyze information using databases and other resources. 3. Understand and securely use computer technology and information in an ethical manner.	7 – Develop Computer and Information Literacy

NOTE: See *Specialized Accreditation* above. Students are encouraged to choose General Education courses in Accounting, Business Management, Economics, Finance and Credit, Marketing Management, and Paralegal Studies.

GENERAL EDUCATION REQUIREMENTS (34 CREDITS)

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

OR

ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 3-5 CREDITS

COURSE		CR	SEM	PREREQUISITE
Any approved QL course				

AMERICAN INSTITUTIONS (AI) CHOOSE 1 COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH)

COURSE	CR	SEM	PREREQUISITE
Any approved IN course			
OR			
Any second course from one of the Distribution Areas			

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: It is recommended students take:
ECON 2020 as Social Science (SS) distribution course for University of Utah
PSY 1010 or SOC 1010 as Social Science (SS) distribution course for Utah State University

REQUIRED AND ELECTIVE COURSES: (27 CREDITS MINIMUM)

Choose any two (2) of the following Certificates of Proficiency:

- Business and Personal Computing CP (18 credits)
- Computer Science Fundamentals CP (16 credits)
- Database Information Systems and Technology CP (16 credits)
- Linux System Administration CP (16 credits)
- Mobile Application Development CP (16 credits)
- Network and Cyber Security CP (16 credits)
- Network and System Administration CP (16 credits)
- Network Routing and Switching CP (16 credits)
- Software Development CP (17 credits)
- Software Engineering CP (16 credits)
- Web Programming and Development CP (16 credits)
- Windows System Administration CP (16 credits)

Students should refer to the specific Certificates of Proficiency for the list of courses, requirements, and scheduling suggestions to complete their degree.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
Certificate of Proficiency 1 (1st Half)	8	Certificate of Proficiency 1 (2nd Half)	8
General Education	8	General Education	8
Total	**16**	**Total**	**16**

FALL SEMESTER		SPRING SEMESTER	
Certificate of Proficiency 2 (1st Half)	6	Certificate of Proficiency 2 (2nd Half)	5
General Education	9	General Education	9
Total	**15**	**Total**	**14**

Advising Notes: It is the student's responsibility to examine each course description for the details of recommended and prerequisite classes. Students with significant work experience or background knowledge may wish to contact the CSIS Academic Advisor to determine if they have sufficient prior experience for success in a particular course.

COMPUTER SCIENCES AND INFORMATION SYSTEMS
– ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) **63 credits minimum**

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description:

The Computer Sciences and Information Systems AAS Degree prepares students to enter the workplace with skills in a variety of highly technical areas such as those listed below. The CSIS Department offers Certificates of Proficiency (CP) in the following areas:

Business and Personal Computing CP (18 credits)
Computer Science Fundamentals CP (16 credits)
Database Information Systems and Technology CP (16 credits)
Linux System Administration CP (16 credits)
Mobile Application Development CP (16 credits)
Network and Cyber Security CP (16 credits)
Network and System Administration CP (16 credits)
Network Routing and Switching CP (16 credits)
Software Development CP (17 credits)
Software Engineering CP (16 credits)
Web Programming and Development CP (16 credits)
Windows System Administration CP (16 credits)



Choose any three (3) of the above Certificates of Proficiency. Completion of the General Education requirements (14 CREDITS MINIMUM) and three (3) Certificates of Proficiency (49 CREDITS MINIMUM) allows a student to be eligible to apply for an Associate of Applied Science Degree in Computer Sciences and Information Systems.

The Computer Sciences and Information Systems AAS Degree is designed to provide students with skills of sufficient breadth and depth to enter the workplace. Many positions in business and industry require a significant number of highly technical skills. The student is strongly encouraged to discuss this with the CSIS Academic Advisor to help choose three compatible Certificates of Proficiency to maximize the breadth and depth of the areas of the student's proficiency.

Career Opportunities: Computer and Information Scientist, Computer Programmer, Computer Software Engineer, Computer Support Specialist, Computer Systems Analyst, Database Administrator, Network and Computer Systems Administrator, Computer Security Specialist, Network Systems and Data Communications Analyst, Software Quality Assurance Engineer and Tester, Network Designer, Web Developer, Web Administrator, Database Architect, Data Warehousing Specialist, Business Intelligence Analyst, Information Technology Project Manager, Game Designer, Document Management Specialist.

Estimated Time to Completion: Time to completion is four semesters if the student follows the suggested semester schedule.

Specialized Accreditation: The Computer Sciences and Information Systems associate degree programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree granting business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. From a set of requirements; analyze, design, code, test and document programs to meet requirements. 2. Create and utilize database tables, forms, reports and queries. 3. Demonstrate knowledge of operating systems and its interaction with programs, data, hardware, and users. 4. Understand the mapping between software and hardware solutions. 5. Perform network management tasks. 6. Efficiently use common business software including word processing, spreadsheets, and presentations. 7. Develop Web applications.	1 – Acquire Substantive Knowledge
1. Communicate effectively electronically. 2. Communicate effectively verbally.	2 – Communicate Effectively
1. Use appropriate functions, filters and queries to perform data analyses and make informed decisions. 2. Perform the necessary numerical calculations and operations to solve problems.	3 – Develop Quantitative Literacy
1. Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions. 2. Analyze a set of requirements for software or network solutions. 3. Design a database that will organize complex data.	4 – Think Critically and Creatively
1. Develop the awareness and skills to take leadership roles in the classroom and in group activities.	5 – Develop Knowledge and Skills for Civic Engagement
1. Work cooperatively with fellow students through group work and course assignments. 2. Understand and develop the skills to effectively participate in a business organization.	6 – Work with Others in a Professional Manner
1. Use hardware and software to complete assignments. 2. Gather and analyze information using databases and other resources. 3. Understand and securely use computer technology and information in an ethical manner.	7 – Develop Computer and Information Literacy

NOTE: See *Specialized Accreditation* above. Students are encouraged to choose General Education courses in Accounting, Business Management, Economics, Finance and Credit, Marketing Management, and Paralegal Studies.

GENERAL EDUCATION REQUIREMENTS (14 CREDITS MINIMUM):

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer scor

QUANTITATIVE STUDIES (QS) 3 CREDITS
Any approved QS course

COMMUNICATION (CM) 3 CREDITS
Any approved CM course

HUMAN RELATIONS (HR) 2 CREDITS
Any approved HR course

DISTRIBUTION AREAS 3 CREDITS

Choose an additional 3 credits from at least one of the following distribution areas.

- Biological Science (BS)
- Fine Arts (FA)
- Humanities (HU)
- Physical Science (PS)
- Social Science (SS)
- Interdisciplinary (ID)

REQUIRED AND ELECTIVE COURSES: (49 CREDITS MINIMUM)

Choose any three (3) of the following Certificates of Proficiency:

- Business and Personal Computing CP (18 credits)
- Computer Science Fundamentals CP (16 credits)
- Database Information Systems and Technology CP (16 credits)
- Linux System Administration CP (16 credits)
- Mobile Application Development CP (16 credits)
- Network and Cyber Security CP (16 credits)
- Network and System Administration CP (16 credits)
- Network Routing and Switching CP (16 credits)
- Software Development CP (17 credits)
- Software Engineering CP (16 credits)
- Web Programming and Development CP (16 credits)
- Windows System Administration CP (16 credits)

The student should refer to the specific Certificates of Proficiency for the list of courses, requirements, and scheduling suggestions to complete their degree.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
Certificate of Proficiency 1 (1ST Half)	8	Certificate of Proficiency 1 (2nd Half)	8
General Education	8	Certificate of Proficiency 2 (1ST Half)	8
Total	**16**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
Certificate of Proficiency 2 (2nd Half)	9	Certificate of Proficiency 3 (2nd Half)	8
Certificate of Proficiency 3 (1ST Half)	8	General Education	6
Total	**17**	**Total**	**14**

Advising Notes: It is the student's responsibility to examine each course description for the details of recommended and prerequisite classes. Students with significant work experience or background knowledge may wish to contact the CSIS Academic Advisor to determine if they have sufficient prior experience for success in a particular course.

NETWORK SYSTEMS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 66 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: The relentless pace of technology and the critical dependence of today's global businesses on technology have created two significant problems. For large businesses with dedicated IT staff, the problem is a lack of time for training IT professionals on new and emerging technologies. For smaller companies, the problem is even more acute: they also need cutting-edge technology, but can't afford a separate IT staff. This means they must either outsource their IT—which can be a competitive disadvantage—or they rely on the "computer guru", who is typically an individual with little to no formal IT training but likes computers and can solve some computer problems when they arise.

The Network Systems degree at Salt Lake Community College prepares individuals with an appropriate blend of vendor-neutral base knowledge and practical, hands-on labs to become the lone IT staff member in a company of 50-75 employees.

This is accomplished in the following core areas of the Network Systems program:

- Data center
- Desktop management
- Email
- Operating systems
- Physical infrastructure
- Security
- Software management
- Storage
- Unified communication
- Virtualization

Estimated Time to Completion: Time to completion is four semesters if students follow the suggested semester schedule.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Perform network management tasks. 2. Understand network security risks. 3. Categorize and route network traffic. 4. Deploy and manage Virtual Machines.	1 – Substantive Knowledge
1. Communicate effectively electronically. 2. Communicate effectively verbally.	2 – Communicate Effectively
1. Use appropriate functions, filters and queries to perform data analyses and make informed decisions. 2. Perform the necessary numerical calculations and operations to solve problems.	3 – Develop Quantitative Literacy
1. Install, terminate and troubleshoot wired and wireless network systems.	4 – Think Critically
1. Identify common network vulnerabilities and implement mitigating solutions. 2. Design database services. 3. Design enterprise mail and web services.	5 – Develop Knowledge and Skills for Civic Engagement
1. Work cooperatively with fellow students through group work and course assignments. 2. Understand and develop the skills to effectively participate in a business organization.	6 – Work with Others in a Professional Manner
1. Use hardware and software to complete assignments. 2. Gather and analyze information using databases and other resources. 3. Understand and securely use computer technology and information in an ethical manner.	7 – Develop Computer and Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Interm Algebra	4	A	RDG 0990; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas:

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (48 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1030	Connected Computing	3	F, Sp	
CSIS 1032	Introduction to Linux	3	F, Sp	Recommended: CSIS 1030
CSIS 1110	Data Cabling Basics	3	F, Sp	
CSIS 1121	CompTIA A+ Essentials	3	F, Sp	
CSIS 1124	Intro MS Windows Desktop	3	F, Sp	Recommended: CSIS 1121
CSIS 1132	Linux System Admin I	3	F, Sp	Recommended: CSIS 1032
CSIS 1200	Introduction to Networking	3	F, Sp	Recommended: CSIS 1030
CSIS 1250	Network Routing Switching I	3	F, Sp	Recommended: CSIS 1200
CSIS 1251	Network Routing Switching II	3	F	Recommended: CSIS 1250
CSIS 2110	MS Server Ntwk Infstrastructure	3	F, Sp	Recommended: CSIS 1121
CSIS 2120	MS Directory Administration	3	F, Sp	Recommended: CSIS 1121
CSIS 2130	MS Server Administration	3	F, Sp	Recommended: CSIS 2110 and CSIS 2120
CSIS 2132	Linux System Admin II	3	F, Sp	Recommended: CSIS 1132
CSIS 2310	Wireless Networking	3	F, Sp	Recommended: CSIS 1200
CSIS 2320	Basic Comp/Ntwk Security	3	F, Sp	Recommended: CSIS 1200
CSIS	Elective	3		

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
CSIS 1030	3	CSIS 1250	3
CSIS 1200	3	CSIS 1110	3
CSIS 1121	3	CSIS 2310	3
CSIS 1032	3	CSIS 1125	3
ENGL 1010	3	COMM	3
HR	2-3	DISTRIBUTION	3
Total	**17-18**	**Total**	**18**

FALL SEMESTER		SPRING SEMESTER	
CSIS 1251	3	CSIS 2120	3
CSIS 1132	3	CSIS 2130	3
CSIS 1250	3	CSIS 2132	3
CSIS 2110	3	DISTRIBUTION	3
MATH 1010	4	CS/CSIS ELEC	3
Total	**16**	**Total**	**15**

Advising Note: Students should meet with CSIS Academic Advisor before beginning or in the early part of the program.

BUSINESS AND PERSONAL COMPUTING – CERTIFICATE OF COMPLETION[CTE] 32 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: This Certificate of Completion provides students foundational and necessary skills in Business and Personal Computing. Upon completion of the program, students will have learned the skills necessary to manage their own personal computing needs as well as gain some of the fundamental skills necessary for a small home-based business. There is a great demand for basic computer proficiency in business. Part of this program will include the Business and Personal Computing – Certificate of Proficiency stackable credential. This Certificate of Completion may be used as a stackable credential for other CSIS AS or AAS degrees.

Career Opportunities: Small Business Owner, Business Intelligence Analyst.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Efficiently use common business software	1 – Substantive Knowledge
Use appropriate functions, filters and queries to perform data analyses and make informed decisions	3 – Quantitative Literacy
Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4- Think Critically
Recognize the ethical considerations of utilizing technology in business.	5-Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS (8 CREDITS):

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGLISH 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate AccuPlacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Mathematics	3	A	MATH 0990 or appropriate AccuPlacer score

HUMAN RELATIONS (HR) 2 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1010	Customer Service	2	F,Sp	

REQUIRED COURSES: (24 CREDITS)

BUSINESS AND PERSONAL COMPUTING – CERTIFICATE OF PROFIENCY (18 CREDITS)

RECOMMENDED ELECTIVE COURSES (6 CREDITS):

COURSE		CR	SEM	PREREQUISITE
CSIS 1430	Internet & HTML Fundamentals	3	F, Sp	Recommended: CIS 1020
MGT 1100	Small Business Management	3	F,Sp	
FIN 1050	Personal Finance (ID)	3	F,Sp	
MKTG 1030	Introduction to Marketing	3	F,Sp	
ACCT 1110	Financial Accounting I	3	F,Sp	

CSIS 2040	Advanced Spreadsheet Applications	3	F, Sp	CSIS 2010
CSIS 2050	Advanced Database Applications	3	F, Sp	CSIS 2010
CSIS 2060	Decision Support Systems	3	F, Sp	CSIS 2010

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1020	3	CSIS 2040/2050/2060	3
CSIS 1030	3	CSIS 1070	3
CSIS 2010	3	ENGL 1010	3
FIN 1380	3	ELEC	3
MKTG 1010	2	ELEC	3
ELEC	3		
Total	**17**	**Total**	**15**

BUSINESS AND PERSONAL COMPUTING – CERTIFICATE OF PROFICIENCY[CTE] 18 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: This Certificate of Proficiency provides students foundational and necessary skills in Business and Personal Computing. Upon completion of the program, students will have learned the skills necessary to manage their own personal computing needs as well as some of the fundamental skills necessary for a small home-based business. There is a great demand for basic computer proficiency in business. To this end, in the future, this program may be used as a stackable credential for the Business and Personal Computing - Certificate of Completion or other CSIS AS or AAS degrees.

Career Opportunities: Small Business Owner, Business Intelligence Analyst.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Efficiently use common business software	1 – Substantive Knowledge
Use appropriate functions, filters and queries to perform data analyses and make informed decisions	3 – Quantitative Literacy
Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
Recognize the ethical considerations of utilizing technology in business.	5-Civic Engagement and/or Working Professionally

REQUIRED COURSES: (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CIS 1020	Computer Essentials	3	F, Sp	
CSIS 1030	Connected Computing	3	F, Sp	
CSIS 1070	Living in A Digital World	3	F, Sp	Recommended: CIS 1020
CSIS 2010	Bus Comp Proficiency – Spreadsheets/Databases	3	F, Sp	Recommended: CIS 1020
CHOOSE ONE OF THE FOLLOWING:		3		
CSIS 2040	Advanced Spreadsheet Applications	3	F, Sp	CSIS 2010
CSIS 2050	Advanced Database Applications	3	F, Sp	CSIS 2010
CSIS 2060	Decision Support Systems	3	F, Sp,	CSIS 2010

RECOMMENDED ELECTIVE COURSES: (3 CREDITS MINIMUM)

COURSE		CR	SEM	PREREQUISITE
MGT 1100	Small Business Management	3	F,Sp	
CSIS 1430	Internet & HTML Fundamentals (ID)	3	F, Sp	Recommended: CIS 1020
FIN 1050	Personal Finance (ID)	3	F, Sp	
MKTG 1030	Introduction to Marketing	3	F, Sp	
ACCT 1110	Financial Accounting I	3	F, Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CIS 1020	3	CSIS 2040/2050/2060	3
CSIS 1030	3	CSIS 1070	3
CSIS 2010	3	ELEC	3-6
Total	**9**	**Total**	**9-12**

COMPUTER SCIENCE FUNDAMENTALS – CERTIFICATE OF PROFICIENCY[CTE] — 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells,
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Margarethe Posch

Program Description: This Certificate provides the core courses for students interested in pursuing a Computer Science degree at a 4-year institution. This Certificate prepares students for advanced studies in Computer Science including Software Development and Software Engineering. The curriculum includes topics related to software development, database management, and web development. This Certificate of Proficiency is designed to be **a first year** Certificate for students seeking an AS or AAS degree in Computer Sciences and Information Systems.

Career Opportunities: App Developer, Computer Programmer, Game Developer, Software Developer for Business and Industry, Software Quality Assurance Engineer & Tester.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
From a set of requirements: analyze, design, code, test and document programs to meet requirements.	1 – Substantive Knowledge
Create a functional user interface that is easy to navigate.	1 – Substantive Knowledge
Design database solutions for business problems.	1 – Substantive Knowledge
Analyze a set of requirements for software solutions.	4 – Think Critically 2 – Communicate Effectively
Recognize the ethical considerations of utilizing technology in business.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (13-14 CREDITS)

COURSE		CR	SEM	PREREQUISITE
Choose 1 of the following 3 introductory courses:				
CSIS 1030	Foundations of CS	3	F,Sp	
or				
CSIS 1340	Intro to Programming	3	F,Sp	
or				
CSIS 1350	Apps and Applets	4	F,Sp	
CSIS 1400	Fund of Programming	4	F,Sp	Recommended: CSIS 1030 or CSIS 1340 or CSIS 1350
CSIS 1430	Internet & HTML Fund (ID)	3	F,Sp	
CSIS 2440	Web Programming	3	F,Sp	Recommended: CSIS 1430

RECOMMENDED ELECTIVE COURSES: (3 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1410	Object Oriented Prog	4	F, Sp	Recommended: CSIS 1400
CSIS 1550	SQL Programming	3	F, Sp	Recommended: CIS 1020
CSIS 1032	Introduction to Linux	3	F, Sp	Recommended: CSIS 1030
MGT 1100	Small Business Management	3	F, Sp	
FIN 1050	Personal Finance (ID)	3	F, Sp	
MKTG 1030	Introduction to Marketing	3	F, Sp	

ACCT 1110 Financial Accounting I 3 F,Sp

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1030/1340/1350	3-4	CSIS 1400	4
CSIS 1430	3	CSIS 2440	3
		ELEC	3
Total	**6-7**	**Total**	**10**

DATABASE INFORMATION SYSTEMS AND TECHNOLOGY – CERTIFICATE OF PROFICIENCY[CTE]

16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
http://www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler, Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: The program provides students a well-rounded introduction to acquiring knowledge and skills in designing, processing and managing business database systems.

Career Opportunities: There are increasing needs in various business organizations for individuals with competencies in database applications. Examples of available positions in this area included: Database Architect, Database Analyst, Database Administrator (DBA), Data Warehousing Specialist, Business Intelligence Analyst.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
From a set of requirements: analyze, design, code, test and document programs to meet requirements.	1 – Substantive Knowledge
Create a functional user interface that is easy to navigate.	1 – Substantive Knowledge
Design database solutions for business problems.	1 – Substantive Knowledge
Analyze a set of requirements for software solutions.	4 – Think Critically 2 – Communicate Effectively
Recognize the ethical considerations of utilizing technology in business.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1050	Database Design and Processing	3	F,Sp	Recommended: CIS 1020 or equivalent business software experience
CSIS 1550	SQL Programming	3	F,Sp	Recommended: CIS 1020
CSIS 2050	Advanced Database Applications	3	F,Sp	CSIS 2010
CSIS 2440	Web Programming	3	F,Sp	Recommended: CIS 1430

RECOMMENDED ELECTIVE COURSES: (4-6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1032	Introduction to Linux	3	F,Sp	Recommended: CIS 1030
CSIS 1070	Living in a Digital World (ID)	3	F, Sp	Recommended: CIS 1020
CSIS 2010	Bus Comp Prof – Spreadsheet/DB	3	F,Sp	Recommended: CIS 1020
CSIS 2040	Advanced Spreadsheet Applications	3	F, Sp	CSIS 2010
CSIS 2060	Decision Support Systems	3	F, Sp	CSIS 2010
CSIS 2900	Current Topics in CSIS	1-4	Sp	
MGT 1100	Small Business Management	3	F,Sp	
FIN 1050	Personal Finance (ID)	3	F,Sp	

MKTG 1030	Introduction to Marketing	3	F,Sp
ACCT 1110	Financial Accounting I	3	F,Sp

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1050	3	CSIS 2050	3
CSIS 1550	3	CSIS 2440	3
ELEC	3		
Total	**9**	**Total**	**6**

LINUX SYSTEM ADMINISTRATION – CERTIFICATE OF PROFICIENCY[CTE] — 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: A study of the Linux operating system, including desktop, server and enterprise environments. Including terminal emulation, use of system editors, basic Linux command, writing script files and introductory system management concepts.

Career Opportunities: The use of Linux is growing and increasing market share within the IT community. The future IT person will have to be aware if not familiar with Linux in a business environment.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will become aware of Linux as a Desktop and Server option.	1 – Substantive Knowledge
Students will create user accounts with appropriate permissions for specific roles/types of users.	1 – Substantive Knowledge
Students will remotely access their PC through desktop sharing and remote file access.	1 – Substantive Knowledge
Analyze a set of hardware requirements for OS solutions.	4 – Think Critically 2 – Communicate Effectively
Recognize the ethical considerations of utilizing technology in business.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1032	Introduction to Linux	3	F,Sp	Recommended: CSIS 1030
CSIS 1132	Linux System Admin I	3	F	Recommended: CSIS 1032
CSIS 2132	Linux System Admin II	3	F	Recommended: CSIS 1132

RECOMMENDED ELECTIVE COURSES: (SELECT 7-9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 2320	Basic Computer and Network Security	3	F	Recommended: CSIS 1132
CSIS 2330	Penetration Testing	3	Sp	Recommended: CSIS 1032 and CSIS 1200
CSIS 1030	Connected Computing	3	F, Sp	
CSIS 2900	Current Topics in CSIS	1-4	Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1032	3	CSIS 1132	3
Elective	3-6	CSIS 2132	3
		Elective	4
Total	**6-9**	**Total**	**10**

MOBILE APPLICATION DEVELOPMENT – CERTIFICATE OF PROFICIENCY[CTE] 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: Developing software for mobile devices such as the iPhone, Droid, and iPad requires a unique set of skills. This Certificate of Proficiency includes courses to teach students these skills. The student entering this program must have programming experience in an object oriented language such as Java, C++, C#, or Objective C. This experience should be equivalent to CSIS 1410.

Career Opportunities: There is a great demand for mobile application developers in business and industry. In general, these skills must be accompanied by additional skills and competencies. Career titles include: App Developer, Computer Software Engineer – Applications.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
From a set of requirements: analyze, design, code, test and document programs to meet requirements.	1 – Substantive Knowledge
Create a functional user interface that is easy to navigate.	1 – Substantive Knowledge
Design database solutions for business problems.	1 – Substantive Knowledge
Analyze a set of requirements for software solutions.	4 – Think Critically 2 – Communicate Effectively
Recognize the ethical considerations of utilizing technology in business.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1550	SQL Programming	3	F,Sp	Recommended: CIS 1020
CSIS 1200	Introduction to Networking	3	F,Sp	Recommended: CSIS 1030
CSIS 2630	Android App Dev	3	F	Recommended: CSIS 1410
CSIS 2640	Mobile IOS App Dev	3	Sp	Recommended: CSIS 1410

RECOMMENDED ELECTIVE COURSES: (4-6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1032	Introduction to Linux	3	F,Sp	Recommended: CSIS 1030
CSIS 2440	Web Programming	3	F,Sp	Recommended: CSIS 1430
CSIS 2900	Current Topics in CSIS	1-4	Sp	
MGT 1100	Small Business Management	3	F,Sp	
FIN 1050	Personal Finance (ID)	3	F,Sp	
MKTG 1030	Introduction to Marketing	3	F,Sp	
ACCT 1110	Financial Accounting I	3	F,Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1200	3	CSIS 1550	3
CSIS 2630	3	CSIS 2640	3
Elective	4		
Total	**10**	**Total**	**6**

NETWORK AND CYBER SECURITY – CERTIFICATE OF PROFICIENCY[CTE] — 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: The program provides students with an in-depth knowledge of network and cyber security.

Career Opportunities: Employment of information security analysts, web developers, and computer network administrators is projected to grow 22 percent from 2010 to 2020, faster than the average for all occupations. Job prospects for all three occupations should be favorable.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Analyze network traffic for security vulnerabilities	1 – Substantive Knowledge
Mitigate network outages due to security breaches	1 – Substantive Knowledge
Design cyber-security solutions for business problems.	1 – Substantive Knowledge
Identify, resolve and document network security issues	4 – Think Critically 2 – Communicate Effectively
Recognize the ethical considerations of utilizing technology in business.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 2320	Basic Computer and Network Security	3	F,Sp	Recommended: CSIS 1200
CSIS 2310	Wireless Networking	3	F,Sp	Recommended: CSIS 1200
CSIS 2330	Penetration Testing	3	F	Recommended: CSIS 1032 and CSIS 1200

RECOMMENDED ELECTIVE COURSES: (7 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1132	Linux System Admin I	3	Sp	Recommended: CSIS 1032
CSIS 1200	Introduction to Networking	3	F,Sp	Recommended: CSIS 1030
CSIS 2120	MS Directory Administration	3	F,Sp	Recommended: CSIS 1121
CSIS 2900	Current Topics in CSIS	1-4	Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 2310	3	CSIS 2330	3
CSIS 2320	3	ELEC	4-6
ELEC	3		
Total	**9**	**Total**	**7-9**

NETWORK AND SYSTEM ADMINISTRATION – CERTIFICATE OF PROFICIENCY[CTE] — 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: The program provides students with an in-depth knowledge of network and system administration.

Career Opportunities: Employment of information security analysts, web developers, and computer network administrators is projected to grow 22 percent from 2010 to 2020, faster than the average for all occupations. Job prospects for all three occupations should be favorable.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Analyze network traffic for security vulnerabilities	1 – Substantive Knowledge
Mitigate network outages due to security breaches	1 – Substantive Knowledge
Design cyber-security solutions for business problems.	1 – Substantive Knowledge
Identify and resolve network security issues	4 – Think Critically 2 – Communicate Effectively
Recognize the ethical considerations of utilizing technology in business.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1200	Introduction to Networking	3	F,Sp	Recommended: CSIS 1030
CSIS 1132	Linux System Admin I	3	F	Recommended: CSIS 1032
CSIS 1250	Network Routing & Switching I	3	F,Sp	Recommended: CSIS 1200
CSIS 2110	MS Server Ntwk Infrastructure	3	F	Recommended: CSIS 1121

RECOMMENDED ELECTIVE COURSES: (4 CREDITS MINIMUM)

COURSE		CR	SEM	PREREQUISITE
CSIS 1032	Introduction to Linux	3	F,Sp	Recommended: CSIS 1030
CSIS 2310	Wireless Networking	3	F,Sp	Recommended: CSIS 1200
CSIS 2120	MS Directory Administration	3	F,Sp	Recommended: CSIS 1121
CSIS 2900	Current Topics in CSIS	1-4	Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1200	3	CSIS 1132	3
CSIS 1250	3	CSIS 2110	3
ELEC	1	ELEC	3
Total	**7**	**Total**	**9**

NETWORK ROUTING AND SWITCHING – CERTIFICATE OF PROFICIENCY[CTE] 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: Network and computer systems administrators are responsible for the day-to-day operation of an organization's computer networks. They organize, install, and support an organization's computer systems, including local area networks (LANs), wide area networks (WANs), network segments, intranets, and other data communication systems.

Career Opportunities: Employment of network and computer systems administrators is expected to grow 28 percent from 2010 to 2020, faster than the average for all occupations. Demand for these workers is high and should continue to grow as firms invest in newer, faster technology and mobile networks.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will get the knowledge and skills required to successfully design, install, operate, and troubleshoot a small to medium size enterprise branch network.	1 – Substantive Knowledge
Students will install, configure, and troubleshoot network devices using appropriate tools, and equipment.	1- Substantive Knowledge
Students will Identify, data communication analyze, and troubleshoot network issues.	1- Substantive Knowledge
Recognize the ethical considerations of utilizing technology in business.	5-Civic Engagement and/or Working Professionally

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1200	Introduction to Networking	3	F,Sp	Recommended: CSIS 1030
CSIS 1250	Network Routing & Switching I	3	F,Sp	Recommended: CSIS 1200
CSIS 1251	Network Routing & Switching II	3	F	Recommended: CSIS 1250

RECOMMENDED ELECTIVE COURSES: (7 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1110	Data Cabling Basics	3	F, Sp	
CSIS 1124	Intro to MS Windows Desktop OS	3	F,Sp	Recommended: CSIS 1121
CSIS 1032	Introduction to Linux	3	F,Sp	Recommended: CSIS 1030
CSIS 2310	Wireless Networking	3	F,Sp	Recommended: CSIS 1200
CSIS 2900	Current Topics in CSIS	1-4	Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1200	3	CSIS 1250	3
ELEC	4	CSIS 1251	3
		ELEC	3
Total	**7**	**Total**	**9**

SOFTWARE DEVELOPMENT – CERTIFICATE OF PROFICIENCY[CTE] 18 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, (801) 957-5150

Program Faculty:
See www.slcc.edu/csis

Program Description: The Software Development Certificate of Proficiency provides instruction and hands-on experience in database management, object oriented design and development, networking protocols, and computer architecture. The curriculum complements the course work completed in the Computer Science Fundamentals CP and prepares students to transfer to a computer science program at a four-year institution.

Career Opportunities: Computer and Information Scientist, Computer Programmer, Computer Systems Analyst.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Design database solutions for business problems. 2. Implement object-oriented design and development using a contemporary object-oriented language and agile software development methods. 3. Understand interoperability concepts related network protocols.	1 – Substantive Knowledge
Communicate effectively verbally and in writing.	2 – Communicate Effectively
Understand the language of the computer including computer arithmetic, datapath and control, pipelining, memory hierarchies, and interfacing with peripheral devices.	3 – Develop Quantitative Literacy
Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions, i.e., relative efficiency of comparable algorithms, appropriate data structure(s) to solve computing problems, discrete mathematics and algebraic structures as applied to computer science.	4 – Think Critically
Participate as a member of a student team during a semester long software development project.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1410	Object-Oriented Programming	4	F, Sp	Recommended: CSIS 1400
CSIS 1550	SQL Programming	3	F, Sp	Recommended: CIS 1020
CSIS 2420	Algorithms & Data Structures	4	F, Sp	Recommended: CSIS 1410 or equivalent programming experience
CSIS 2810	Computer Architecture	4	F, Sp	Recommended: CSIS 1410 or equivalent programming experience

RECOMMENDED ELECTIVE COURSES: (3 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1200	Introduction to Networking	3	F, Sp	Recommended: CSIS 1010
CSIS 1400	Fund of Programming	4	F, Sp	Recommended: CSIS 1030 or CSIS 1350
CSIS 2430	Discrete Structures	3	F, Sp	Recommended: CSIS 2420

CSIS 2450	Software Engineering	3	F, Sp	Recommended: CSIS 1410
MGT 1100	Small Business Management	3	F,Sp	
FIN 1050	Personal Finance (ID)	3	F,Sp	
MKTG 1030	Introduction to Marketing	3	F,Sp	
ACCT 1110	Financial Accounting I	3	F,Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1410	4	CSIS 2420	4
CSIS 1550	3	CSIS 2810	4
ELEC	3		
Total	**10**	**Total**	**8**

SOFTWARE ENGINEERING – CERTIFICATE OF PROFICIENCY[CTE] 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: This program is designed to provide students with a fundamental understanding of software engineering and experience with the entire software development cycle. Upon completion students will have learned how to select algorithms and data structures, how to translate requirements into an appropriate software design, and how to build a larger software project as a team.

Career Opportunities: Computer Software Engineer – Applications, Computer Software Engineer – Systems Software, Computer Systems Analyst, Computer Systems Engineer & Architect.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Understand Software Engineering concepts	1 – Substantive Knowledge
Select appropriate algorithms and data structures when given a set of programming specifications	1 – Substantive Knowledge 3 – Developing Quantitative Literacy 4 – Thinking Critically
As a team develop requirements and translate those requirements into an appropriate software design	4 – Think Critically 2 – Communicate Effectively
Build a database enabled web application	1 – Substantive Knowledge 4 – Thinking Critically

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 2450	Software Engineering	3	F,Sp	Recommended: CSIS 1410
CSIS 2700	Projects for Industry	3	Sp	Recommended: CSIS 1410
CSIS 2570	Advanced Java Programming	3	F	Recommended: CSIS 1410
or				
CSIS 2530	Intermediate Programming in C#	3	F	Recommended: CSIS 1410

RECOMMENDED ELECTIVE COURSES: (7 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 2420	Algorithms and Data Structures	4	F,Sp	Recommended: CSIS 1410
CSIS 2060	Decision Support Systems	3	Sp	CSIS 2010
CSIS 2630	Android Application Development	3	F	Recommended: CSIS 1410
CSIS 2640	Mobile IOS App Development	3	Sp	Recommended: CSIS 1410
CSIS 2900	Current Topics in CSIS	1-4	Sp	
MGT 1100	Small Business Management	3	F,Sp	
FIN 1050	Personal Finance (ID)	3	F,Sp	
MKTG 1030	Introduction to Marketing	3	F,Sp	
ACCT 1110	Financial Accounting I	3	F,Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 2450	3	CSIS 2700	3
CSIS 2570/2530	3	ELEC	4
ELEC	3		
Total	**9**	**Total**	**7**

WEB PROGRAMMING AND DEVELOPMENT – CERTIFICATE OF PROFICIENCY[CTE] 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: This emphasis is for professional careers in the Web Programming and Development area of the information systems field. Fundamentals of business as well as technical skills are emphasized, in order to utilize Web Programming and Development effectively in a business environment. The "business to consumer" and "business to business" paradigms are explored. Graduates are trained in the technical aspects of website management, preparation, development and implementation.

Career Opportunities: Web Programmer, Web Designer, Web Developer, Web Engineer.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. From a set of requirements; analyze, design, code, test and document programs to meet requirements. 2. Create and utilize database tables, forms, reports and queries. 3. Demonstrate knowledge of operating systems and its interaction with programs, data, hardware, and users. 4. Understand the mapping between software and hardware solutions. 5. Perform network management tasks. 6. Efficiently use common business software including word processing, spreadsheets, and presentations.	1 – Substantive Knowledge
1. Communication effectively electronically.	2 – Communicate Effectively
1. Use appropriate functions, filters and queries to perform data analyses and make informed decisions. 2. Write code that performs the necessary numerical calculations and operations to solve problems.	3 – Develop Quantitative Literacy
1. Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions. 2. Analyze a set of requirements for software or network solutions. 3. Design a database that will organize complex data.	4 – Think Critically
1. Work cooperatively with fellow students through group work and course assignments. 2. Understand the importance of increasing effective participation in a business organization.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1430	Internet & HTML Fundamentals (ID)	3	F,Sp	Recommended: CIS 1020
CSIS 2440	Web Programming	3	F,Sp	Recommended: CSIS 1430

CSIS 2470	Advanced JavaScript & JSP	3	Sp	Recommended: CSIS 2440
CSIS 1032	Introduction to Linux	3	F,Sp	Recommended: CSIS 1030

RECOMMENDED ELECTIVE COURSES: (4 CREDITS MINIMUM)

COURSE		CR	SEM	PREREQUISITE
CSIS 1340	Introduction to Programming	3	F,Sp	Recommended: CSIS 1030
CSIS 1400	Fundamentals of Programming	4	F,Sp	Recommended: CSIS 1030
CSIS 1350	Apps and Applets	3	Sp	Recommended: CSIS 1030
CSIS 2900	Current Topics in CSIS	1-4	Sp	
MGT 1100	Small Business Management	3	F,Sp	
FIN 1050	Personal Finance (ID)	3	F,Sp	
MKTG 1030	Introduction to Marketing	3	F,Sp	
ACCT 1110	Financial Accounting I	3	F,Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 1430	3	CSIS 2440	3
CSIS 1032	3	CSIS 2470	3
ELEC	4		
Total	**10**	**Total**	**6**

WINDOWS SYSTEM ADMINISTRATION – CERTIFICATE OF PROFICIENCY[CTE] — 16 credits minimum

Computer Sciences and Information Systems Division
Taylorsville Redwood Campus, BB 109, (801) 957-5150
General Information, (801) 957-4073
www.slcc.edu/csis
CSIS Academic Advisor, BB 130A, (801) 957-4286

Program Faculty:
Professors – Jimmy Chen, Gordon Frisbey, Susumu Kasai, Randy Koziatek, Lorna Wells, Bruce Worthen
Associate Professors – Paul Anstall, Robert Baird, Marilyn Hibbert, Philip Nielson
Assistant Professors – Zahra Atashi, Roderick Buhler**,** Edward Walsh
Instructors – Dan Pope, Margarethe Posch

Program Description: The Windows Administration Certificate of Proficiency gives the students the knowledge that they need to manage Windows desktop and server environments. The courses follow the requirements specified in Microsoft's Official Courses, 70-642, 70-640, and 70-646. The student can take these three exams and get the MCTIP in Server administration issued by Microsoft.

Career Opportunities: There is a great demand for Computer Networking Engineers in Microsoft Operation Systems. In general these skills must be accompanied by additional skills and competencies.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
The students will configure tools for the server, and appropriate settings for the client machines.	1 – Substantive Knowledge
Students will learn to configure name resolution on a Microsoft Network	1 – Substantive Knowledge
The students will use Group policy to control objects in the directory.	1 – Substantive Knowledge
Analyze a set of requirements for networking solutions.	4 – Think Critically 2 – Communicate Effectively
Recognize the ethical considerations of utilizing technology in business.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 2110	MS Server Ntwk Infrastructure	3	F	Recommended: CSIS 1121
CSIS 2120	MS Directory Administration	3	Sp	Recommended: CSIS 1121
CSIS 2130	MS Server Administration	3	Sp	Recommended: CSIS 2110 and CSIS 2120

RECOMMENDED ELECTIVE COURSES: (7 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 1121	CompTIA A+ Essentials	3	Sp	
CSIS 1200	Introduction To Networking	3	F, Sp	Recommended: CSIS 1030
CSIS 2900	Current Topics in CSIS	1-4	Sp	

For elective credit, a student may choose any course in the **CSIS Department**, or any course from any department in the **School of Business** or the **Visual Art and Design Department**.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 2110	3	CSIS 2120	3
ELEC	3	CSIS 2130	3
		ELEC	4
Total	**6**	**Total**	**10**

CONSTRUCTION MANAGEMENT – ASSOCIATE OF SCIENCE[CTE] (AS) 67 credits minimum

Division of Technical Specialties
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/construction
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professor –Chad Fail
Instructor – Boyd Johnson

Program Description: This program is designed to teach light commercial and residential construction management and sustainable building methods that address the green building and energy conservation demands of today. It is designed to allow students to transfer into various construction management related programs. The program provides student with an in-depth educational experience in construction management coursework. It is a building block toward a BS degree in Construction Management or related fields.

Career Opportunities: Entry level positions within a construction company with potential for rapid promotion. This is the first step toward starting a construction management career or private contractor business.

Transfer Information: For information regarding various transfer options, please contact the SLCC Program Advisor at (801) 957-4550. Students who earn an AS degree in Construction Management have the option to transfer into the Technology Management – Construction Management Option, Bachelor Degree at Utah Valley University.

Estimated Cost for Students: For tuition and student fees see http://www.slcc.edu/cashiering/tuition-and-fees.aspx. Estimated cost of books varies based on course selection.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is two-years.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy 8 – Develop the attitudes and skills for lifelong wellness
Students explore construction and technology related topics which will enhance their ability to successfully compete in today's marketplace in the construction management industry.	1, 5, 6, 7
Students make an informed selection as to a career in construction management or related technology.	1, 4, 5, 6
To prepare students for a variety of construction related occupations.	1, 2, 3, 4, 5, 6
To provide a continuing education for current working students who desire a degree for further job advancement.	1, 2, 3, 4, 5, 6
Students learn the necessary green & sustainable building practices that are required by clients, architects, engineers and local and national building codes and standards.	1, 2, 3, 4, 5, 6
Graduates of this program are prepared with entry level skills that result in accelerated advancement in their employment.	1, 2, 3, 4, 5, 6

To prepare students for transfer to various construction management related programs.	1, 2, 3, 4, 5, 6

GENERAL EDUCATION REQUIREMENTS

NOTE: In selecting courses to fulfill general education requirements for an AS or AA Degree, students should consult their academic program and the institution to which they intend to transfer. Requirements may vary at four-year institutions.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-5 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any approved QL designated course.

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communications (CM, IN)	3	A	ENGL 1010 w/C grade or better
OR				
COMM 1010	Elements of Eff. Communications (CM, IN)	3	A	
OR				
COMM 1020	Public Speaking (CM, IN)	3	A	

DISTRIBUTION AREAS:

Choose one course (3-4 credits) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3

BIOLOGICAL SCIENCE (BS)

COURSE		CR	SEM	PREREQUISITE
BIOL 1010	Intro to Biology (BS)	4	A	RDG 0900 w/C grade or better or appropriate Accuplacer score Corequisite: BIOL 1015
AND				
BIOL 1015	Intro to Biology Lab (BS)	0	A	Corequisite: BIOL 1010
OR				
BIOL 1120	Intro Conservation Bio (BS)	3	F, Sp	RDG 0900 w/C grade or better or appropriate Accuplacer score

INTERDISCIPLINARY (ID)

COURSE		CR	SEM	PREREQUISITE
BUS 1010	Intro to Business (ID)	3	A	

PHYSICAL SCIENCE (PS) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
CHEM 1010	Intro Chemistry (PS)	3	A	
GEO 1010	Intro to Geology (PS)	3	A	
GEOG 1700	Natural Disasters (PS)	3	A	
PHYS 1010	Elementary Physics (PS)	3	A	

SOCIAL SCIENCE (SS)

COURSE		CR	SEM	PREREQUISITE
ECON 1010	Econ as Soc. Science (SS)	3	A	

CONSTRUCTION DESIGN PRINCIPLES AND PRACTICE

REQUIRED CORE COURSES: (33 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 2350	Adv. Arch. CAD (BIM)	3	Sp	
CMGT 1130	OSHA 30 for Construction	2	F, Sp	
CMGT 1410	Construction Materials & Methods	2	F, Sp	
CMGT 1420	Building Energy Systems	2	F, Sp	
CMGT 1450	Construction Print Reading & Layout	3	F, Sp	
CMGT 1660	Concrete Technology	2	F, Sp	
CMGT 2640	Construction Estimating	3	F, Sp	CMGT 1410, CMGT 1450
CMGT 2670	Building Codes & Inspection	2	F, Sp	
CMGT 2810	Construction Project Management	3	F, Sp	CMGT 1410, CMGT 1450, CMGT 2640, CMGT 2670
CMGT 2850	Green Building Standards	1	F, Sp	
CMGT 2870	Construction Law	2	F, Sp	CMGT 1410, CMGT 1450, CMGT 2640, CMGT 2670

ELECTIVE COURSES (8 credits) Select 8 credits from the following, based on your chosen pathway, transfer needs and academic advising recommendations.

COURSE		CR	SEM	PREREQUISITE
ARCH 1310	AutoCAD	3	F, Sp	
OR				
EDDT 1040	Introduction to AutoCAD	3	A	
OR				
INTD 1450	Interior Design AutoCAD	4	A	See Interior Design Department
ARCH 2060	Construction Documents	3	F	ARCH 1010 or CMGT 1010 or instructor approval
CMGT 1100	Construction Math (QS)	3	F	
CMGT 1320	Building Construction I	4	F	
CMGT 1330	Interior Finishes I	4	Sp	
CMGT 1340	Cabnt & Renewable Mat I	4	F, Sp	
CMGT 2000	Construction Mgt. CO-OP	3-5	F, Sp	
CMGT 2320	Building Construction II	4	F	CMGT 1320
CMGT 2330	Interior Finishes II	4	Sp	CMGT 1330
CMGT 2340	Cabnt & Renewable Mat II	4	F, Sp	CMGT 1340
ELI 1110	Electrical IA	5	F, Sp	MATH 0990 or ELI 1470 (either w/C grade or better) or appropriate Accuplacer score
INTD 2150	Green/Sustainable Interiors	3	Sp	See Interior Design Department
INTD 2300	Lighting Design & Application	3	F, Sp	INTD 1450
INTD 2400	Kitchen & Bath Design	3	F, Sp	INTD 1450
INTD 2800	Historic Preservation	3	F	Instructor Approval
PLI 1110	Plumbing IA	5	F, Sp	MATH 0920 or MATH 0950, w/C grade or better; or Accuplacer score of 75 Arithmetic and 40-53 Algebra or PLI 1470

SVT 1010	Introduction to Surveying	1	A	
SVT 1030	Surveying Field Tech I	3	F, Sp	SVT 1110 or MATH 1060
SVT 2060	Ethics and Land Liability	2	A	
SVT 2160	Land Boundary Law I	2	F	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CMGT 1130	2	ARCH 2350	3
CMGT 1410	2	CMGT 1450	3
CMGT 1420	2	CMGT 1660	2
ENGL 1010	3	ENGL 2100	3
American Institutions (AI)	3	Biological Science (BS)	3
Lifelong Wellness (LW)	1	Elective	4
Humanities (HU)	3		
Total	**16**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
BUS 1010	3	CMGT 2810	3
CMGT 2640	3	CMGT 2850	1
CMGT 2670	2	CMGT 2870	2
Communications (CM)	3	ECON 1010	3
Elective	4	MATH 1040	3
Fine Arts (FA)	3	Physical Science (PS)	3
Total	**18**	**Total**	**15**

Advising Notes: It is highly recommended that each student meet with the Construction Management program advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4550.

It is recommended to those students seeking an AS degree to complete one or more general education requirements in the summer.

The AS Degree in Construction Management is designed for students with some construction experience and those students wishing to transfer and complete a bachelor's degree in Construction Management.

Additional Program Notes: All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employable skills. For more information see http://skillsusa-utah.org

CONSTRUCTION MANAGEMENT AND SUSTAINABLE BUILDING – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS)

68 credits minimum

Division of Technical Specialties
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/construction
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professor – Chad Fail
Instructor – Boyd Johnson

Program Description: This program is dedicated to teaching light commercial and residential sustainable construction methods that address the green building & energy conservation demands of today. It is designed to provide students with a practical hands-on experience in various areas of building construction, interior finishes & cabinetmaking, along with project management and business management courses.

Career Opportunities: Entry level positions within a construction company with potential for rapid promotion. This is the first step toward starting a construction management career or private contractor business.

Transfer Information: For information regarding transfer options, please contact the SLCC Program Advisor at (801) 957-4550. Students who earn an AAS degree in Construction Management and Sustainable Building have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU can accept up to 45 technical credits towards this degree. Student may take additional general education classes to complete the AS Degree in Construction Management and then transfer to various Bachelor programs in Construction Management

Estimated Cost for Students: For tuition and student fees see http://www.slcc.edu/cashiering/tuition-and-fees.aspx. Estimated cost of books varies based on pathway and course selection.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is two years.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students explore construction and technology related topics which will enhance their ability to successfully compete in today's marketplace in the construction management industry.	1, 5, 6, 7
Students make an informed selection as to a career in construction management or related technology. Students will pursue this career.	1, 4, 5, 6
To prepare technicians for a variety of construction related occupations.	1, 2, 3, 4, 5, 6
To provide a continuing education for current working students who desire a degree for further job advancement.	1, 2, 3, 4, 5, 6
Students learn the necessary green & sustainable building practices that is required by clients, architects, engineers and local and national building codes and standards.	1, 2, 3, 4, 5, 6
Graduates of this program are prepared with entry level skills that result in accelerated advancement in their employment.	1, 2, 3, 4, 5, 6
To prepare students for transfer to various construction management	1, 2, 3, 4, 5, 6

related programs.	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
CMGT 1100	Construction Math (QS)	3	F	None
OR				
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
Any approved QL designated course				

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Comm (CM, IN)	3	A	ENGL 1010 w/C grade or better
OR				
COMM 1010	Elements of Effective Communications (CM, IN)	3	A	
OR				
COMM 1020	Public Speaking (CM, IN)	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations (SS, HR)	3	A	
OR				
MKTG 1010	Customer Service (HR)	2	A	
OR				
MKTG 1960	Professionalism in Business (HR)	3	A	
OR				
Any approved HR designated course				

DISTRIBUTION AREAS: Choose 3 credits from one of the following

PHYSICAL SCIENCE (PS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1010	Intro Chemistry (PS)	3	A	
GEO 1010	Intro to Geology (PS)	3	A	
GEO 1700	Natural Disasters (PS)	3	A	
PHYS 1010	Elementary Physics (PS)	3	A	

CONSTRUCTION DESIGN PRINCIPLES AND PRACTICE

REQUIRED CORE COURSES: (34 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 2350	Adv. Arch. CAD (BIM)	3	Sp	
BIOL 1010	Intro to Biology (BS)	4	A	RDG 0900 w/C grade or better or appropriate Accuplacer score Corequisite: BIOL 1015
AND				
BIOL 1015	Intro to Biology Lab (BS)	0	A	Corequisite: BIOL 1010
OR				
BIOL 1120	Intro Conservation Bio (BS)	3	F,S	RDG 0900 w/C grade or better or appropriate Accuplacer score
BUS 1010	Intro to Business (ID)	3	A	
CMGT 1130	OSHA 30 for Construction	2	F, Sp	
CMGT 1410	Construction Materials & Methods	2	F, Sp	
CMGT 1420	Building Energy Systems	2	F, Sp	
CMGT 1450	Construction Print Reading	3	F, Sp	

	& Layout			
CMGT 1660	Concrete Technology	2	F, Sp	
CMGT 2640	Construction Estimating	3	F, Sp	CMGT 1410, CMGT 1450
CMGT 2670	Building Codes & Inspection	2	F, Sp	
CMGT 2810	Construction Project Management	3	F, Sp	CMGT 1410, CMGT 1450, CMGT 2640, CMGT 2670
CMGT 2850	Green Building Standards	1	F, Sp	
CMGT 2870	Construction Law	2	F, Sp	CMGT 1410, CMGT 1450, CMGT 2640, CMGT 2670
ECON 1010	Econ as Soc Science (SS)	3	A	

ELECTIVE COURSES (20 CREDITS) Select 20 credits from the following 3 areas based on your chosen pathway, transfer needs and academic advising recommendations:

BUILDING CONSTRUCTION

COURSE		CR	SEM	PREREQUISITE
CMGT 1320	Building Construction I	4	F	
CMGT 1330	Interior Finishes I	4	Sp	
CMGT 1340	Cabnt & Renewable Mat I	4	F, Sp	
CMGT 2320	Building Construction II	4	F	CMGT 1320
CMGT 2330	Interior Finishes II	4	Sp	CMGT 1330
CMGT 2340	Cabnt & Renewable Mat II	4	F, Sp	CMGT 1340

CABINET MAKING & MILLWORK

COURSE		CR	SEM	PREREQUISITE
CMGT 1220	Woodworking & Millwork I	4	F	
CMGT 1340	Cabnt & Renewable Mat I	4	F, Sp	
CMGT 1530	Furniture Design & Const I	3	F	
CMGT 2220	Woodworking & Millwork II	4	Sp	CMGT 1220
CMGT 2340	Cabnt & Renewable Mat II	4	F, Sp	CMGT 1340
CMGT 2530	Furniture Design & Const II	3	Sp	CMGT 1530
CMGT 2710	Comp Apps for Cabinets & Woods	3	Sp	
CMGT 2720	CNC for Cabinets & Woods	1	Sp	

TECHNICAL ELECTIVES

COURSE		CR	SEM	PREREQUISITE
ARCH 1310	AutoCAD	3	F, Sp	
OR				
EDDT 1040	Introduction to AutoCAD	3	A	
OR				
INTD 1450	Interior Design AutoCAD	4	A	See Interior Design Department
ARCH 2060	Construction Documents	3	F	ARCH 1010 or CMGT 1010 or instructor approval
CMGT 1100	Construction Math (QS)	3	F	
CMGT 2000	Construction Mgt. CO-OP	3-5	F, Sp	
ELI 1110	Electrical IA	5	F, Sp	MATH 0990 or ELI 1470 (either w/C grade or better) or appropriate Accuplacer score
INDT 2150	Green/Sustainable Interiors	3	Sp	See Interior Design Department
INTD 2300	Lighting Design & Application	3	F, Sp	INTD 1450
INTD 2400	Kitchen & Bath Design	3	F, Sp	INTD 1450
INTD 2800	Historic Preservation	3	F	Instructor Approval
PLI 1110	Plumbing IA	5	F, Sp	MATH 0920 or MATH 0950, w/C grade or better; or Accuplacer score of 75 Arithmetic and 40-53 Algebra or PLI 1470
SVT 1010	Introduction to Surveying	1	A	
SVT 1030	Surveying Field Tech I	3	F, Sp	SVT 1110 or MATH 1060
SVT 2060	Ethics and Land Liability	2	A	
SVT 2160	Land Boundary Law I	2	F	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CMGT 1100	3	CMGT 1450	3
CMGT 1130	2	CMGT 1660	2
CMGT 1410	2	Elective	4
Communications (CM)	3	Elective	4
Elective	4	Human Relations (HR)	2-3
Elective	4		
Total	**18**	**Total**	**15-16**
FALL SEMESTER		**SPRING SEMESTER**	
BUS 1010	3	ARCH 2350	3
CMGT 2640	3	CMGT 2810	3
CMGT 2670	2	CMGT 2850	1
CMGT 1420	2	CMGT 2870	2
Elective	4	ECON 1010	3
ENGL 1010	3	Biological Science (BS)	3
		Physical Science (PS)	3
Total	**17**	**Total**	**18**

Advising Notes: It is highly recommended that each student meet with the Construction Management program advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4550.

The AAS Degree in Construction Management and Sustainable Building is designed for students with little or no previous construction experience.

It is recommended to those students seeking an AAS degree to complete one or more general education requirements in the summer.

Additional Program Notes: All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employable skills. For more information see http://skillsusa-utah.org

CABINETMAKING AND FURNITURE CONSTRUCTION – CERTIFICATE OF COMPLETION[CTE]

33 credits minimum

Division of Technical Specialties
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
www.slcc.edu/cabinetmaking
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professor – Chad Fail
Instructor – Boyd Johnson

Program Description: This certificate is designed to provide students with a solid base of knowledge and skills relative to the woodworking, furniture & cabinetmaking fields. It is an introduction to materials that promote the responsible use of natural resources and sustainability. Skills in traditional woodworking tools along with the safe operation of power equipment will be taught. Advanced instruction with sophisticated computer software and computer operated CNC equipment are included.

Transfer Information: For information regarding transfer options, please contact the SLCC Program Advisor at (801) 957-4550.

Career Opportunities Entry Level Woodworking & Cabinetmaking jobs with potential for rapid promotion.

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuition-and-fees.aspx. Estimated cost of $700 for student woodworking projects, $500 Books & Supplies and $100-300 Personal Tools & Equipment.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is one year.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students learn math skills related to the construction and cabinetmaking discipline	1, 3, 4
Students gain a competent knowledge of joinery, materials, techniques, and wood characteristics.	1, 4, 5, 6
Students learn kitchen and bath design principles and how to apply them using computer software.	1, 2, 4, 5, 7
Students gain an introductory knowledge in the use of CNC technology and be able to successfully complete basic programs	1, 4, 5, 7
Students learn the safe and proper use of hand and power tools.	1, 4, 5, 6
Students learn principles of wood finishing including the use of green and sustainable wood finishes.	1, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
CMGT 1100	Construction Math (QS)	3	F	

OR

MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any approved QL designated course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communications (CM, IN)	3	A	ENGL 1010 w/C grade or better
OR				
COMM 1010	Elements of Eff. Communications (CM, IN)	3	A	
OR				
COMM 1020	Public Speaking (CM, IN)	3	A	

HUMAN REALTIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations (SS, HR)	3	A	
OR				
MKTG 1010	Customer Service (HR)	2	A	
OR				
MKTG 1960	Professionalism in Bus (HR)	3	A	
OR				

Any approved HR designated course

REQUIRED COURSES: (25 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CMGT 1220	Woods & Millwork I	4	F	
CMGT 1340	Cabnt-& Renewable Mat I	4	F, Sp	
CMGT 1530	Furniture Design & Const I	3	F	
CMGT 2530	Furniture Design & Const II	3	Sp	CMGT 1530
CMGT 2220	Woods & Millwork II	4	Sp	CMGT 1220
CMGT 2340	Cabnt & Renewable Mat II	4	F, Sp	CMGT 1340
CMGT 2710	Comp Apps for Cabinets & Woods	3	Sp	
OR				
ARCH 1310	Intro to AutoCAD	3	F, Sp	
OR				
EDDT 1040	Intro to AutoCAD	3	A	

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
CMGT 1110	Birth of a Flute	3	F, Sp	
CMGT 1200	Personal Projects	2	A	
CMGT 2530	Furniture Design & Const II	3	Sp	CMGT 1530
CMGT 2720	CNC for Cabinets & Woods	1	Sp	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CMGT 1100	3	CMGT 1340	4
CMGT 1220	4	CMGT 2340	4
CMGT 1530	3	CMGT 2220	4
CMGT 2710	3	CMGT 2530	3
Human Relation (HR)	2-3	Communication (CM)	3
Total	**15**	**Total**	**18**

Advising Notes: It is highly recommended that each student meet with the Construction Management program advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4550.

Students wishing to transfer may complete their General Education and receive an AS in Technical Transfer.

Additional Program Notes: All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employable skills. For more information see http://skillsusa-utah.org

SUSTAINABLE BUILDING CONSTRUCTION – CERTIFICATE OF COMPLETION[CTE]

33 credits minimum

Division of Technical Specialties
Taylorsville Redwood Campus, CT 274
General Information, (801) 957-4073
Program Information, (801) 957-4066
http://www.slcc.edu/construction
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Associate Professor – Chad Fail
Instructor – Boyd Johnson

Program Description: This program is dedicated to teaching light commercial and residential sustainable construction methods that address the green building & energy conservation demands of today. It is designed to provide students with a practical hands-on experience in the areas of building construction and interior finishes. It is designed to be a building block toward the Construction Management & Sustainable Building AAS degree.

Career Opportunities: Various entry level positions within a construction company with potential for rapid promotion.

Estimated Cost for Students: For tuition and student fees see http://www.slcc.edu/cashiering/tuition-and-fees.aspx. Estimated cost of books and tools varies based on pathway and course selection.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is one year.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students explore construction and technology related topics which will enhance their ability to successfully compete in today's marketplace in the construction management industry.	1,5,6, 7
Students learn the necessary green & sustainable building practices that are being required by clients, architects, engineers and local and national building codes.	1, 2, 3 4, 5, 6
Students make an informed selection as to a career in construction management or related technology.	1, 4, 5, 6

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
CMGT 1100	Construction Math (QS)	3	F	
OR				
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any approved QL designated course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communications (CM, IN)	3	A	ENGL 1010 w/C grade or better
OR				
COMM 1010	Elements of Eff. Communications (CM, IN)	3	A	
OR				
COMM 1020	Public Speaking (CM, IN)	3	A	

HUMAN REALTIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations (SS, HR)	3	A	
OR				
MKTG 1010	Customer Service (HR)	2	A	
OR				
MKTG 1960	Professionalism in Business (HR)	3	A	
OR				
Any approved HR designated course				

CONSTRUCTION DESIGN PRINCIPLES AND PRACTICE
REQUIRED CORE COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CMGT 1130	OSHA 30 for Construction	2	F, Sp	
CMGT 1410	Construction Materials & Methods	2	F, Sp	
CMGT 1450	Construction Print Reading & Layout	3	F, Sp	
CMGT 1660	Concrete Technology	2	F, Sp	

ELECTIVE COURSES (16 CREDITS) Select 16 Credits from the following 3 areas based on your chosen pathway, transfer needs and academic advising recommendations:

BUILDING CONSTRUCTION

COURSE		CR	SEM	PREREQUISITE
CMGT 1320	Building Construction I	4	F	
CMGT 1330	Interior Finishes I	4	Sp	
CMGT 1340	Cabnt & Renewable Mat I	4	F, Sp	
CMGT 2320	Building Construction II	4	F	CMGT 1320
CMGT 2330	Interior Finishes II	4	Sp	CMGT 1330
CMGT 2340	Cabnt & Renewable Mat II	4	F, Sp	CMGT 1340

CABINETRY & MILLWORK

COURSE		CR	SEM	PREREQUISITE
CMGT 1220	Woodworking & Millwork I	4	F	
CMGT 1340	Cabnt & Renewable Mat I	4	F, Sp	
CMGT 1530	Furniture Design & Const I	3	F	
CMGT 2220	Woodworking & Millwork II	4	Sp	CMGT 1220
CMGT 2340	Cabnt & Renewable Mat II	4	F, Sp	CMGT 1340
CMGT 2530	Furniture Design & Const II	3	Sp	CMGT 1530
CMGT 2710	Comp Apps for Cabinets & Woods	3	Sp	
CMGT 2720	CNC for Cabinets & Woods	1	Sp	

TECHNICAL ELECTIVES

COURSE		CR	SEM	PREREQUISITE
ARCH 1310	AutoCAD	3	F	
OR				
EDDT 1040	Introduction to AutoCAD	3	A	
OR				

INTD 1450	Interior Design AutoCAD	4	A	See Interior Design Department
CMGT 1100	Construction Math (QS)	3	F	
ELI 1110	Electrical IA	5	F, Sp	MATH 0990 or ELI 1470 (either w/C grade or better) or appropriate Accuplacer score
PLI 1110	Plumbing IA	5	F, Sp	MATH 0920 or MATH 0950, w/C grade or better; or Accuplacer score of 75 Arithmetic and 40-53 Algebra or PLI 1470
SVT 1010	Introduction to Surveying	1	A	
SVT 1030	Surveying Field Tech I	3	F, Sp	SVT 1110 or MATH 1060

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CMGT 1130	2	CMGT 1450	3
CMGT 1410	2	CMGT 1660	2
CMGT 1100	3	Elective	4
Communication (CM)	3	Elective	4
Elective	4	Human Relations (HR)	2-3
Elective	4		
Total	**18**	**Total**	**15**

Advising Notes: It is highly recommended that each student meet with the Construction Management program advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4550.

The Certificate of Completion in Sustainable Building is designed for students with little or no previous construction experience.

It is recommended to those students seeking an AAS degree to complete one or more general education requirements in the summer.

Additional Program Notes: All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employable skills. For more information see http://skillsusa-utah.org

ENERGY MANAGEMENT
– ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 67 credits minimum

Program Division: Continuing Education
Program Location: Campus, Building, Office Miller Campus, MFEC 229
General Information: 801-957-7522
Program Information: 801-957-5404
Program Website: www.slcccontinuinged.com/energymanagement
Academic Advisor: Devan Church, SI 209, 801-957-4858

Program Faculty:
Professors –
Associate Professors –
Assistant Professors –
Instructors – Curtis Clark, Gaylen Atkinson, Enrique Mora, James Crockett, Eric Reynolds, Thaniel Bishop, Gary Robinson, Joseph Good, Tony Hiatt, Brent Ursenbach, Curtis Leetham, Brian Walsh

Program Description:
Energy Management is the efficient and effective use of energy to minimize costs and reduce future energy demand. The program focuses on identifying and implementing energy efficiency measures as well as leadership through sustainable practices. In addition, students will learn the fundamentals of energy and gain an understanding of the energy systems in residential and commercial buildings. Course subject groupings include HVAC Energy Analysis, Lighting Fundamentals and Applications, Energy Accounting and Investment Analysis, Energy Modeling and Control Strategies, and Solar Photovoltaic Systems. Program courses are taught by adjunct faculty who are industry experts in their respective fields.

This is a comprehensive program that provides students with practical hands-on experience. Students are required to participate in a capstone event that integrates theory and practice. This experience provides students with opportunities to develop skills, explore career options and network with professionals and employers in the industry. Students are required to complete a minimum of four internship or capstone project credit hours to earn the AAS degree in Energy Management.

The program is offered as an accelerated degree allowing students to complete the two-year program in as little as 18 months. Students will complete a series of seven, accelerated 10-week blocks of required program courses and full-semester courses as required. Training is designed to accommodate working professionals with most classes offered on Monday, Wednesday and Friday evenings on the Larry H. Miller Campus in Sandy, Utah. Many courses are offered in a hybrid (classroom + online) format for increased convenience.

Preparation Note: A new program cohort begins each August, approximately three weeks before the regular semester start date. Students are encouraged to contact the program coordinator early to assure a successful program start. A basic proficiency with spreadsheet applications is highly recommended before starting the program.

Career Opportunities: Energy Auditor, Weatherization Technician, Energy Efficiency Consultant, Energy Manager, Integrative Building Design Professional, High Performance Building Contractor, Renewable Energy Specialist, and more.

Transfer/Articulation Information: Bismarck State College

Program Entry Requirements: Completion of WRTG 0990 w/C grade or better or appropriate Accuplacer score within the last year; MATH 0990 w/C grade or better or appropriate Accuplacer score within the last year.

Total Program/Course Fees: $200

Estimated Cost for Students: $8700 including tuition, fees and books

Estimated Time to Completion: 18 – 24 months

Specialized Accreditation:

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Evaluate the energy use patterns for residential and commercial buildings and recommend energy efficiency and alternative energy solutions for high energy consuming buildings. 2. Understand the interaction between energy consuming building systems and make recommendations based on that understanding.	1 – Acquire Substantive Knowledge
1. Generate energy evaluation technical reports and make presentations for project implementation. 2. Use appropriate library and information resources to research professional issues and support lifelong learning. 3. Access library, computing and communications services and obtain information and data from regional, national and international networks.	2 – Communicate Effectively
1. Interpret the concepts of a problem-solving task and translate them into mathematics. 2. Collect and display data as lists, tables and plots using appropriate technology (e.g., graphing calculators, computer software).	3 – Develop Quantitative Literacy
1. Determine an appropriate scale for representing an object in a scale drawing. 2. Develop and evaluate inferences and predictions that are based on data.	4 – Think Critically and Creatively
1. Develop an awareness of the social, political, and economic factors dealing with energy management. 2. Work collaboratively in multidisciplinary teams.	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C or better or appropriate Accuplacer score
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C or better

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra (QS)	4	A	MATH 0990 and RDG 900 w/C or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM,IN)	3	A	
COMM 1020	Prin Public Speaking (CM,IN)	3	A	
CTEL 1020	Career Speech Skills (CM)	3	F, Sp	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 2110	Interpers Comm. (ID, HR)	3	F, Sp	None
CTEL 1010	1010 Ldrshp & Team Bldg (HR)	3	A	
LE 1220	HR Career Dev (SS, HR)	3	A	
MKTG 1960	Prof in Business (HR)	3	A	

DISTRIBUTION AREAS (3 CREDITS)

Choose an additional 3 credits from at least 1 of the following Distribution Areas.

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4	A	RDG 0900 w/C or better
Fine Arts (FA)	3-4	A	
Humanities (HU)	3	A	
Interdisciplinary (ID)	3	A	
Physical Science (PS)	3	A	
Social Science (SS)	3	A	

REQUIRED COURSES: (46 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 1100	Intro to Arch Drawing	3	*	
CSIS 1019	Spreadsheet Applications	2	*	
PHYS 1010	Elementary Physics (PS)	3	*	
EGMT 1010	Intro to Energy Mgmt	2	*	
EGMT 1110	HVAC Energy Analysis I	2	*	EGMT 1010
EGMT 1120	Comm Energy Analysis	3	*	EGMT 1210 and MATH 1010
EGMT 1130	Building Energy Sims	3	*	EGMT 1120
EGMT 1210	HVAC Energy Analysis II	2	*	EGMT 1110 and PHYS 1010
EGMT 1220	Comm A/C System Anal	2	*	EGMT 1210 and MATH 1010
EGMT 1230	Energy Control Strategies	3	*	EGMT 1220, 1240, 1700 or instructor approval
EGMT 1240	Energy Efficiency Methods	2	*	EGMT 1110 and PHYS 1010
EGMT 1310	Lighting Fundamentals	2	*	EGMT 1110, 1700 and PHYS 1010 or instructor approval
EGMT 1320	Lighting Applications	2	*	EGMT 1310 and MATH 1010
EGMT 1410	Energy Invest Analysis	2	*	EGMT 1210, 1240, 1310 and MATH 1010
EGMT 1420	Energy Accounting	2	*	CSIS 1019
EGMT 1540	Alternative Energy Tech	2	*	
EGMT 1700	Elect Prin for Alt Energy	3	*	
EGMT 2060	Energy Mgt Seminar 1	1	*	
EGMT 2065	Energy Mgt Seminar 2	1	*	
EGMT 2800	Energy Mgt Internship	4	*	Completion of all program course requirements

ELECTIVE COURSES: (SELECT 2-3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ACCT 1110	Financial Accounting I	3	A	
ARCH 2990	Special Topics (Green Bldg)	3		Instructor approval
CMGT 1410	Const Materials & Methods	2	F,Sp	
COMM 1140	Environmental Comm	3		
ECON 2250	Environmental Economics	3		
EGMT 1710	Basic Photovoltaic Systems	3	*	EGMT 1700
EGMT 1720	Adv Photovoltaic Systems	3	*	EGMT 1710
GEOG 1000	Earth's Surface Environ	3	A	
GEOG 1400	Human Geography (ID)	3	F, Sp	
GEOG 1800	Geospatial Technology	3	A	
GEOG 2200	Urban/Environ Issues (ID)	3	Sp	

SAMPLE SCHEDULE			
FALL - BLOCK 1		**FALL – BLOCK 2**	
ARCH 1100	3	EGMT 1110	2
EGMT 1010	2	EGMT 1540	2
MATH 1010	4	EGMT 2060	1
CSIS 1019	2	EGMT 1700	3
PHYS 1010	3		
Total	**14**	**Total**	**8**
SPRING – BLOCK 3		**SPRING – BLOCK 4**	
EGMT 1210	2	EGMT 1220	2
EGMT 1240	2	EGMT 1320	2
EGMT 1310	2	EGMT 1410	2

ENGL 1010	3	Tech Elective	2
Human Relation	3		
Total	**12**	**Total**	**8**
SUMMER – BLOCK 5			
EGMT 1120	3		
EGMT 1420	2		
ENGL 2100	3		
Total	**8**		
FALL – BLOCK 6		**FALL – BLOCK 7**	
EGMT 1130	3	EGMT 2800	4
EGMT 1230	3	EGMT 2065	1
Communication	3		
Distribution	3		
Total	**12**	**Total**	**5**

Advising Notes: General Education courses are full-semester, 16-week courses and will be taken separately from the accelerated 10-week block schedule.

Additional Program Notes: Each semester, registration responsibilities will be shared by the student (full semester courses) and program coordinator (accelerated block courses). Student should communicate with program coordinator prior to registering for courses throughout program participation.

CRIMINAL JUSTICE – ASSOCIATE OF SCIENCE (AS) 64 credits minimum

Institute of Public Safety
Miller Campus, PSET 270
General Information, (801) 957-4073
Program Information, (801) 957-5320
http://www.slcc.edu/criminaljustice
Academic Advisor, Miller Campus, PSET 270J, (801) 957-5320

Program Faculty:
Professors – Dr. John Hill
Associate Professors – John Minichino
Assistant Professors – Gary Cox
Instructors – Joseph W. Anderson, JD

Program Description: The Criminal Justice program is designed to provide students with a basic liberal education as well as offer students professional education in criminal justice. Students are encouraged to contact academic advising for transfer information.

Two degrees are offered in the program: an associate of science degree for students who plan to transfer to a four-year program and an associate of applied science degree for students who plan to go directly to work. Students should check with an advisor in selection of General Education and elective classes to coordinate with the appropriate career track at the transfer institution.

Career Opportunities: A Criminal Justice education prepares students for a career and higher education options included, but not limited to areas of Law Enforcement, Corrections, Homeland Security, Probation and Parole, Federal Law Enforcement and Forensics, or as background for the pursuit of degrees varying from Pre-Law to Sociology.

Transfer/Articulation Information: Listed below are recommended transfer courses:

WESTMINSTER COLLEGE – COMM 1020

UTAH VALLEY UNIVERSITY – CJ 1300, CJ 2330, MATH 1050

WEBER STATE UNIVERSITY – CJ 1300, CJ 2300, CJ 2330, MATH 1040

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Cost for Students: Based on 2013-2014 resident tuition and fees, the projected cost per student is $6,104.00 plus books.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Acquire substantive knowledge within Criminal Justice	1 – Substantive Knowledge
Develop effective communication skills	2 – Communicate Effectively
Foster quantitative literacy	3 – Develop Quantitative Literacy
Promote critical thinking	4- Think Critically
Enhance awareness, knowledge and skills to be civically engaged	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) (3-4 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quant Reas	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Eff Comm	3	A	

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CJ 1010	Criminal Justice	3	A	
CJ 1330	Criminal Law	3	A	CJ 1010
CJ 1340	Criminal Invest	3	A	CJ 1010
CJ 1350	Intro to Forensic Sci	3	A	Recommended: CJ 1340
CJ 2350	Laws Evidence	3	A	CJ 1010 and 1330

ELECTIVE COURSES: (SELECT 15 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
CJ 1300	Intro to Corrections	3	A	CJ 1010 or instructor approval
CJ 1900	Special Studies	1-24	A	
CJ 1910	Special Function/Reserve Officer	12	A	Pass the NPOST Exam and complete the program application process.
CJ 1920	Peace Officer Basic	12	A	CJ 1910
CJ 2000	CO-OP	2-4	F, Sp	CJ 1010, 1330, 1340, 1350, and 2350
CJ 2020	CJ Supervision	3	F, Sp	CJ 1010
CJ 2060	Community Cor	3	F, Sp	CJ 1010
CJ 2110	Intro Security	3	F, Sp	CJ 1010
CJ 2260	Cont Prison/Jail	3	F, Sp	CJ 1010

CJ 2300	Intro to Policing	3	A	CJ 1010
CJ 2330	Juvenile Justice	3	A	CJ 1010
CJ 2390	Traffic Law	3	F, Sp	CJ 1010
CJ 2410	Intro Victimology	3	A	CJ 1010
CJ 2420	Homicide Investig	3	A	CJ 1010
CJ 2440	Organized Crime	3	A	CJ 1010
CJ 2450	Terrorism	3	A	CJ 1010
CJ 2460	Psych Profiling	3	A	CJ 1010
CJ 2470	Intro Criminology	3	A	CJ 1010
CJ 2480	Crime Scene Proc	3	F, Sp	CJ 1010, CJ 1350
CJ 2490	Drug Trafficking	3	A	CJ 1010
CJ 2500	Contemp Violence	3	F, Sp	CJ 1010
CJ 2510	Criminal Behavior	3	A	CJ 1010
CJ 2530	Police Patrol Tech	3	A	CJ 1010
CJ 2540	Careers in Law Enf	3	F, Sp	CJ 1010
CJ 2560	Law Enf Documentation	3	F, Sp	CJ 1010
CJ 2920	Special Topics CJ	1-3	A	
COMM 1020	Prin Public Speaking	3	A	
COMM 1610	Reporting/Writing	3	F, Sp	ENGL 1010
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better or appropriate Accuplacer score
FIN 1050	Personal Finance	3	A	
HSEM 1360	Homeland Security	3	A	HSEM 1450
POLS 1100	US Govt & Politics	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1110	State/Local Govt	3	Sp	
PSY 1010	General Psychology	3	A	
SOC 1010	Intro to Sociology	3	A	
SOC 1020	Social Problems	3	A	
SOC 2630	Race/Ethnicity	3	F, Sp	SOC 1010
SW 1010	Intro Social Wk	3	A	
SW 2100	Hu Beh Soc Env	3	A	
SW 2280	Drug/Alcohol Abuse	2	F, Sp	SW 1010 and 2100

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
CJ 1010	3	CJ 1330	3
COMM 1010	3	CJ 1340	3
ENGL 1010	3	ENGL 2010 or 2100	3
QL	3-4	HLAC	1
AI	3	DISTRIBUTION (2)	6
DISTRIBUTION	3		
Total	**18-19**	**Total**	**16**

FALL SEMESTER		**SPRING SEMESTER**	
CJ 1350	3	DISTRIBUTION (2)	6
CJ 2350	3	ELEC	9
DISTRIBUTION	3		
ELEC	6		
Total	**15**	**Total**	**15**

Advising Notes: PSY 1010 or SOC 1010 are recommended for students transferring to Weber State University.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet the requirements for the first semester should plan on extra time to complete the program.

Twenty-four credit hours of vocational-technical credit may be awarded to those individuals who successfully complete POST certified special functions reserve officer and peace officer basic training.

CRIMINAL JUSTICE – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 69 credits minimum

Institute of Public Safety
Miller Campus, PSET 270
General Information, (801) 957-4073
Program Information, (801) 957-5320
http://www.slcc.edu/criminaljustice
Academic Advisor, Miller Campus, PSET 270J, (801) 957-5320

Program Faculty:
Professors – Dr. John Hill
Associate Professors – John Minichino
Assistant Professors – Gary Cox
Instructors – Joseph W. Anderson, JD

Program Description: The Criminal Justice program is designed to provide students with a basic liberal education as well as offer students professional education in criminal justice. Students are encouraged to contact academic advising for transfer information.

Two degrees are offered in the program: an associate of science degree for students who plan to transfer to a four-year program and an associate of applied science degree for students who plan to go directly to work. Students should check with an advisor in selection of General Education and elective classes to coordinate with the appropriate career track at the transfer institution.

Career Opportunities: A Criminal Justice education prepares students for a career and higher education options included, but not limited to areas of Law Enforcement, Corrections, Homeland Security, Probation and Parole, Federal Law Enforcement and Forensics, or as background for the pursuit of degrees varying from Pre-Law to Sociology.

Transfer/Articulation Information: Courses transfer as electives and may also apply towards major course requirements.

Estimated Cost for Students: Based on 2013-2014 resident tuition and fees, the projected cost per student is $6,104.00 plus books.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Acquire substantive knowledge within Criminal Justice.	1 – Substantive Knowledge
Develop effective communication skills.	2 – Communicate Effectively
Foster quantitative literacy.	3 – Develop Quantitative Literacy
Promote critical thinking.	4 – Think Critically
Enhance awareness, knowledge and skills to be civically engaged .	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Eff Comm	3	A	

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relation	3	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional two courses (six credits) from two of the following distribution areas:

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CJ 1010	Criminal Justice	3	A	
CJ 1330	Criminal Law	3	A	CJ 1010
CJ 1340	Criminal Invest	3	A	CJ 1010
CJ 1350	Intro to Forensic Sci	3	A	Recommended: CJ 1340
CJ 2350	Laws Evidence	3	A	CJ 1010 and 1330

ELECTIVE COURSES: (SELECT 35 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
CJ 1300	Intro to Corrections	3	A	CJ 1010 or instructor approval
CJ 1900	Special Studies	1-24	A	
CJ 1910	Special Function/Reserve Officer	12	A	Pass the NPOST Exam and complete the program application process.
CJ 1920	Peace Officer Basic	12	A	CJ 1910
CJ 2000	CO-OP	2-4	F, Sp	CJ 1010, 1330, 1340, 1350, and 2350
CJ 2020	CJ Supervision	3	F, Sp	CJ 1010
CJ 2060	Community Cor	3	F, Sp	CJ 1010
CJ 2110	Intro Security	3	F, Sp	CJ 1010
CJ 2260	Cont Prison/Jail	3	F, Sp	CJ 1010
CJ 2300	Intro to Policing	3	A	CJ 1010
CJ 2330	Juvenile Justice	3	A	CJ 1010
CJ 2390	Traffic Law	3	F, Sp	CJ 1010
CJ 2410	Intro Victimology	3	A	CJ 1010
CJ 2420	Homicide Investig	3	A	CJ 1010
CJ 2440	Organized Crime	3	A	CJ 1010
CJ 2450	Terrorism	3	A	CJ 1010
CJ 2460	Psych Profiling	3	A	CJ 1010
CJ 2470	Intro Criminology	3	A	CJ 1010
CJ 2480	Crime Scene Proc	3	F, Sp	CJ 1010, CJ 1350
CJ 2490	Drug Trafficking	3	A	CJ 1010
CJ 2500	Contemp Violence	3	F, Sp	CJ 1010
CJ 2510	Criminal Behavior	3	A	CJ 1010
CJ 2530	Police Patrol Tech	3	A	CJ 1010
CJ 2540	Careers in Law Enf	3	F, Sp	CJ 1010
CJ 2560	Law Enf Documentation	3	F, Sp	CJ 1010
CJ 2920	Special Topics CJ	1-3	A	
COMM 1020	Prin Public Speaking	3	A	
COMM 1610	Reporting/Writing	3	F, Sp	ENGL 1010
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better or appropriate Accuplacer score
FIN 1050	Personal Finance	3	A	
HSEM 1360	Homeland Security	3	A	HSEM 1450
POLS 1100	US Govt & Politics	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1110	State/Local Govt	3	Sp	
PSY 1010	General Psychology	3	A	

SOC 1010	Intro to Sociology	3	A	
SOC 1020	Social Problems	3	A	
SOC 2630	Race/Ethnicity	3	F, Sp	SOC 1010
SW 1010	Intro Social Wk	3	A	
SW 2100	Hu Beh Soc Env	3	A	
SW 2280	Drug/Alcohol Abuse	2	F, Sp	SW 1010 and 2100

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CJ 1010	3	CJ 1330	3
COMM 1010	3	CJ 1340	3
ENGL 1010	3	DISTRIBUTION	3
LE 1220	3	ELEC	8
MATH 1010	4		
Total	**16**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
CJ 1350	3	ELEC	15
CJ 2350	3	DISTRIBUTION	3
ELEC	12		
Total	**18**	**Total**	**18**

Advising Notes:
It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet the requirements for the first semester should plan on extra time to complete the program.

Twenty-four credit hours of vocational-technical credit may be awarded to those individuals who successfully complete POST certified special functions reserve officer and peace officer basic training.

HOMELAND SECURITY EMERGENCY MANAGEMENT – ASSOCIATE OF APPLIED SCIENCE (AAS) 64 credits minimum

Institute of Public Safety
Miller Campus, PSET 270
General Information 801-957-4073
Program Information, 801-957-5320
http://www.slcc.edu/homelandsecurity
Academic Advisor, Miller Campus, PSET 270J, (801) 957-5320

Program Faculty:
Professors – Dr. John Hill
Associate Professors – John Minichino
Assistant Professors – Gary Cox
Instructors – Joseph W. Anderson, JD

Program Description: The Homeland Security Emergency Management Associate of Applied Science degree was created to prepare graduates for their roles in the multi-agency, multi-disciplinary, collaborative world of managing our nation's security, disaster preparedness and response. This is a growing field that is characterized by the need for professionals to prepare for and react to scenarios like the terror attacks of 9/11 and hurricane Katrina. Recent incidents in Utah like the Herriman fire, Trolley Square and Grand America shootings, and numerous floods are examples of local incidents that require HSEM personnel to reduce the loss of life, property and critical infrastructure.

The degree was developed in partnership with the Department of Homeland Security, Transportation Security Administration (TSA), Utah Department of Public Safety, the Unified Police Department of Greater Salt Lake, various medical institutions and other key agencies and employers within the region. This multi-disciplinary team was intentional and representative of the nature of cross-agency educational degree collaboration. Additionally, it is a result of coordination between a 2-year and 4-year institution (UVU). It is designed to prepare students for entry-level careers in the field of Homeland Security and Emergency Management, or transition to a Bachelor Degree program.

Career Opportunities: Upon successful completion of the program, students will be prepared for careers in government agencies, non-profit organizations, and private companies or may continue their education at the bachelor degree level. Positions may include, but are not limited to, homeland security professionals, emergency managers, protective service workers, and emergency operations staff.

Transfer/Articulation Information: SLCC has entered into an articulation agreement with Utah Valley University. Students successfully completing the Homeland Security Emergency Management Associate of Applied Science may matriculate into UVU's Bachelor of Science in Emergency Management or Emergency Services Administration degree programs. Prior to transferring, students should also apply for an SLCC Letter of Completion through Enrollment Services.

Program Entry Requirements: Admission is consistent with general SLCC admission procedures and guidelines. In addition, students must meet the following program prerequisites:

- WRTG 0990 w/C grade or better or appropriate Accuplacer score.
- MATH 1010 w/C grade or better or appropriate Accuplacer score

Total Program/Course Fees: None

Estimated Cost for Students: Based on 2013-2014 resident tuition and fees, the projected cost per student is $6,104.00 plus books.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: None

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively

	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
1. Provide graduates with the necessary knowledge and skills to protect people, property and critical infrastructure, and minimize the economic impacts of man-made and natural disasters.	1,2,3,4
2. Prepare graduates to be contributing Homeland Security and Emergency Management professionals in government agencies, non-profit organizations and private enterprises.	1, 2,3,4,5,6
3. Prepare graduates with a well-rounded education that encourages the ethical application of knowledge gained in a variety of disciplines.	2, 4, 5, 6
4. Prepare graduates with refined interpersonal management skills.	2, 6

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quant Reas	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

INTENSIVE (IN)

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	
COMM 1020	Prin Public Speaking	3	A	
COMM 1270	Analysis of Argument	3	F, Sp	

DISTRIBUTION AREAS (15 CREDITS)

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Physical Science (PS)	3		

NOTE: Social Science Distribution Area is satisfied. CJ 1010 is required for the program, but DV credit must be earned in a different course.

REQUIRED COURSES: (21 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CJ 1010	Criminal Justice	3	A	
HSEM 1450	Critical Think/Logic HSEM	3	A	
CJ 2450	Terrorism	3	A	CJ 1010
HSEM 1360	Homeland Security	3	A	CJ 1010, HSEM 1450
HSEM 1370	Law, Policy & Privacy	3	A	CJ 1010, HSEM 1450
HSEM 1400	First Responders HSEM	3	A	CJ 1010, HSEM 1450
HSEM 1420	Emergency Comm Mgmt	3	A	CJ 1010, HSEM 1450

ELECTIVE COURSES: (SELECT 12 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
HSEM 1380	Intro Intelligence Analysis	3	A	CJ 1010, HSEM 1450
HSEM 1410	Emergency Planning	3	A	CJ 1010, HSEM 1450
HSEM 1430	Protect/Restore Crit Inf	3	A	CJ 1010, HSEM 1450
HSEM 1440	Continuity of Operations	3	A	CJ 1010, HSEM 1450
HSEM 1900	Special Studies	1-24	A	CJ 1010 and 2450, HSEM 1360 and 1450
HSEM 2000	Co-op	2-4	A	CJ 1010 and 2450, HSEM 1360 and 1450

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
CJ 1010	3	CJ 2450	3
HSEM 1450	3	HSEM 1360	3
ENGL 1010 (EN)	3	HSEM 1370	3
QL	3-4	ENGL 2010 (EN)	3
IN	3	AI	3
DISTRIBUTION	3	LW	1
Total	**18**	**Total**	**16**

FALL SEMESTER		SPRING SEMESTER	
HSEM 1400	3	HSEM 1420	3
ELECTIVE (2)	6	ELECTIVE (2)	6
DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
Total	**15**	**Total**	**15**

Advising Notes: CJ 1010 and HSEM 1450 are highly recommended for the first semester.

Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

CULINARY ARTS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS)

63 credits minimum
1500 hours On the Job Training (OJT)

Culinary Arts Institute
Larry Miller Campus, CART 102 A
General Information, (801) 957-4073
Program Information, (801) 957-5348
www.slcc.edu/culinaryarts
Academic Advisor, Miller Campus, MFEC 126, (801) 957-5323

Program Faculty:
Associate Professors – Leslie Seiferle, Basil S. Chelemes
Instructors – James Bielefeld

Program Description: The Culinary Arts (CHEF) program requires five semesters to complete the curriculum as outlined by the American Culinary Federation Foundation Accrediting Commission (ACFFAC). In addition to two years of related instruction, there is an on-the-job requirement of 1,500 hours where the work must be performed in a preapproved establishment with more than 50% of the food being prepared from scratch. Students have the option of accumulating 1000 hours (or 2 semesters) of the required 1,500 hours in classroom production during optionally offered production classes.

AFFILIATION
While proper technical skills are undeniably important to employers, so are employability skills including the ability to communicate, work on a team, resolve conflicts, confront ethical dilemmas and manage one's time. The Professional Development Program (PDP), a curriculum developed by SkillsUSA®, teaches these skills. Students enrolled in the Culinary Arts program encounter coursework in PDP that provides the tools to strengthen school-based learning, work-based learning and connecting activities as outlined in the School to Work Opportunities Act. All students enrolled in the culinary arts program are members of Skills USA, sponsor of the Professional Development Program (PDP).

Career Opportunities: Culinary Arts is a CTE (Career and Technical Education) program. Students in CTE programs are highly recruited by businesses and industries. SLCC has relationships with businesses and industries within the community and can help CTE graduates get into a career upon graduation. In some cases, students may be hired before they graduate and are able to complete their education at company expense. Opportunity increases from association with The American Culinary Federation, Inc. (ACF), a professional organization for chefs and cooks made up of more than 22,000 members belonging to more than 230 chapters across the U.S.

Transfer/Articulation Information: Students who earn an AAS degree in Culinary Arts have the option to transfer into the Hospitality Management Bachelor degree or the Technology Management Bachelor degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: Entering students must prove competence for MATH 0950 by scoring 75 (or higher) in arithmetic and 35 (or higher) in algebra on the mathematics Accuplacer exam, or complete MATH 0950 or higher with a grade of C or better, or ACT math score of 15-17. Developmental math can be enrolled concurrently with first semester classes in culinary arts. Students also must prove competence for RDG 0990 by scoring 55-70 on the reading comprehension Accuplacer or completing RDG 900 with a grade of C or better and place into ENGL 1010 by completing WRTG 0990 with a C or better. Students are not permitted to enroll in lab courses until they achieve a ServeSafe Certification. This certificate can be obtained in CHEF 1110.

Estimated Cost for Students: Estimated costs of tools and supplies $260

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Specialized Accreditation: Accreditation by American Culinary Federation Foundation Accrediting Commission (ACFFAC) assures that a program is meeting at least a minimum of standards and competencies set for faculty, curriculum and student services. ACFFAC is recognized by the Council on Higher Education Accreditation (CHEA). Salt Lake Community College is accredited by the American Culinary Federation Accrediting Commission (ACFFAC).

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. All students seeking an AAS degree are required in four different lab	1 – Substantive Knowledge

classes to identify tasks and independently develop procedures that incorporate standards taught in prerequisite safety and sanitation classes. For example, the student might be concomitantly serving a three-course meal, making a chocolate cream pie, and doing a load of dishes while prioritizing tasks. Student grades are determined from observation of performance in the lab courses.	
2. To reinforce personal hygiene habits and food handling practices that protects the health of the consumer.	1 – Substantive Knowledge 2 – Communicate Effectively
3. All students seeking an AAS degree are required to take theory courses in communication, supervision, Career and Technical Education Leadership and human resource management. Student grades are determined from exam results as well as field projects that require them compare and contrast relevant characteristics that allow them to understand and solve complex problems.	1 – Substantive Knowledge 4 – Think Critically
4. All students seeking an AAS degree are required to apply mathematical skills to ciphering assignments required in marketing, human resources, menu management, cost control and purchasing. All students seeking an AAS degree are required to apply mathematical skills to recipe conversion, measuring and calculating yield in lab classes	1 – Substantive Knowledge 3 – Develop Quantitative Literacy
5. All students seeking an AAS degree are required to maintain graded journals/rubrics for logging daily and weekly efforts that are also used later in life for professional certification purposes	1 – Substantive Knowledge 2 – Communicate Effectively 4 – Think Critically 5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
CHEF 1320	Business Math (QS)	3	F, Sp	MATH 0950 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course	3		

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course	2-3		

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: CTEL 1010 and CTEL 1020 are recommended for students wishing to participate in SkillsUSA.

REQUIRED COURSES: (49 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEF 1110	Sanitation	3	A	

CHEF 1120	Intro to Hospitality	3	F, Sp	
CHEF 1130	Management of Marketing	3	F, Sp	
CHEF 1210	Food & Beverage Service	3	F, Sp	
CHEF 1220	Beginning Food Prep	3	A	CHEF 1110 w/ C grade or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 1225
CHEF 1225	Beginning Food Prep Lab	3	A	CHEF 1110 w/C grade or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 1220
CHEF 1310	Advanced Food Prep	3	A	CHEF 1220 and 1225; and 1110 w/C or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 1315
CHEF 1315	Advanced Food Prep Lab	3	A	CHEF 1220 and 1225; and 1110 w/C or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 1310
CHEF 1600	Herb Horticulture	1	Su	
CHEF 2410	Purchasing	3	Su	CHEF 1320 w/C or better
CHEF 2420	Baking	3	A	CHEF 1225 and 1315; and 1110 w/C or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 2460
CHEF 2460	Baking Lab	3	A	CHEF 1225 and 1315; and 1110 w/C or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 2420
CHEF 2510	Garde Manger	3	F , Sp	CHEF 1225 and 1315; and 1110 w/C or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 2560
CHEF 2520	Nutrition	3	F , Sp	
CHEF 2560	Garde Manger Lab	3	F , Sp	CHEF 1225 and 1315; and 1110 w/C or better (can be taken concurrently) or valid ServeSafe Certificate. Coreq: CHEF 2510
CHEF 2610	Menu Design	3	F, Sp	CHEF 1320 w/C or better
CHEF 2620	Culinary Management	3	F, Sp	CHEF 1120 w/C or better

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
CHEF 1299	Special Studies	2-5	A	Departmental approval
CHEF 1330	Foundation Wine	3	F, Sp	21 years of age minimum
CHEF 1810	Culinary Competitions Lecture	1	F, Sp	CHEF 1110 w/C grade or better (can be taken concurrently) or valid ServeSafe Certificate
CHEF 1815	Culinary Competitions Lab	2	F, Sp	CHEF 1110 w/C grade or better (can be taken concurrently) or valid ServeSafe Certificate
CHEF 2330	Adv French Wines	3	Sp	21 years of age minimum
CHEF 2680	Catering Management	3	A	CHEF 1110 w/C grade or better (can be taken concurrently) or valid ServeSafe Certificate

SAMPLE SCHEDULE

1st FALL SEMESTER		**1st SPRING SEMESTER**	
CHEF 1110	3	CHEF 1220	3
CHEF 1120	3	CHEF 1225	3
CHEF 1130	3	DISTRIBUTION	3
CHEF 1320	3	CM	3
ENGL 1010	3	CHEF 1210	3
Total	**15**	**Total**	**15**

1st SUMMER SEMESTER	
CHEF 1600	1
CHEF 1310	3
CHEF 1315	3
CHEF 2410	3
Total	**10**

2nd FALL SEMESTER		**2nd SPRING SEMESTER**	
CHEF 2420	3	CHEF 2510	3
CHEF 2460	3	CHEF 2560	3
CHEF 2520	3	CHEF 2610	3
HR	2-3	CHEF 2620	3
Total	**11**	**Total**	**12**

Advising Notes: It is the student's responsibility to understand the requirements for this degree as outlined above. If a student has any questions regarding the information listed above it is highly recommended the student meet with the program advisor.

DENTAL HYGIENE – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS)

89 credits minimum, including prerequisites

Dental Hygiene Program
Jordan Campus
Program Office & Phone, HTC 110, (801) 957-6074
www.slcc.edu/dentalhygiene
Academic Advising, Jordan Campus, JHS 047, (801) 957- 6215
Health Science Admissions, JHS 047, (801) 957-6363

Program Faculty:
Program Director – Lynne Berman, RDH, MHA
Instructors – Jeanie Allen, Renee Mendenhall

Program Description: The SLCC Dental Hygiene Program offers an Associate of Applied Science (AAS) degree which prepares graduates to practice entry level dental hygiene. Dental hygienists provide preventive and therapeutic health care services including oral health assessment & education, pit & fissure sealants, fluoride treatments, oral prophylaxis and advanced periodontal therapy; in addition to public dental health services.

Upon administrative approval, second-year SLCC dental hygiene students are eligible to take examinations required for licensure in all fifty states, including the written National Board Dental Hygiene Examination (NBDHE) and state or regional clinical examinations, such as the Western Regional Examination Board (WREB).

Career Opportunities: Dental hygienists may secure employment in a variety of settings, including private dental offices and clinics, schools, nursing homes, hospitals, public health facilities and other government agencies. Due to the unique nature of the profession, dental hygienists enjoy a flexible work schedule ideal for balancing career and lifestyle needs.

Program Entry Requirements:

ADMISSIONS CRITERIA

NOTE: See the dental hygiene webpage for essential information regarding completion of admission criteria at **www.slcc.edu/dentalhygiene**

ADMISSIONS PROCESS

1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:

   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at : http://www.slcc.edu/transcriptevaluation/. This process may take 4-6 weeks and must be completed before a student's application will be considered.
5. Required Prerequisite coursework are listed below. These courses must be completed **prior to submitting an application** with the noted grade requirements/conditions:
   - All BIOL and CHEM courses must be completed with a minimum grade of C+ or higher
   - All other prerequisite courses listed below must be completed with a minimum of grade of C or higher, AND
   - **All science prerequisites must have been completed within the last five years**

COURSE		CR	SEM	PREREQUISITE
BIOL 2060	Microbiology	4	A	BIOL 1610/1615 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320

BIOL 2420	Human Physiology	4	A	BIOL 1610 w/C grade or better; CHEM 1110 or CHEM 1210 w/C grade or better. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420
CHEM 1110	Elementary Chemistry	4	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1115
CHEM 1115	Elementary Chemistry Lab	1	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1110
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C or better OR appropriate Accuplacer score
MATH 1010	Intermediate Algebra (QS)	4	A	RDG 0990; w/I the last year, MATH 0990 w/C or better OR appropriate Accuplacer score
COMM 1010	Elem Effect Comm (CM)	3	A	
HLTH 1020	Foundations of Nutrition	3	A	
SOC 1010	Intro to Sociology (SS)	3	A	
PSY 1010	Intro to Psychology (SS)	3	A	

Note: It is the student's responsibility to examine each course description for details of other prerequisite classes. Those prerequisites must be satisfied before the designated program prerequisite course may be taken.

APPLICATION REQUIREMENTS

See the Dental Hygiene webpage for essential information regarding completion of application requirements http://www.slcc.edu/dentalhygiene/index.aspx

The clinical placement agencies make the final determination about accepting students for placement in their facility, and may decline to have students placed at their facility, based on the criminal background record of the student. The latter may cause the student not to be able to complete all of the program requirements.

In addition, it will be the responsibility of the student to contact the licensing agency and seek advice regarding eligibility for licensure and requirements needed to progress in this profession, if the criminal background check discloses issues of concern.

PROGRAM STIPULATIONS

SAFETY

Applicants who are enrolled in the SLCC dental hygiene program will be exposed to blood-borne pathogens and infectious diseases. The program strictly adheres to established policies and procedures regarding infection control as recommended by the Centers for Disease Control and Prevention (CDC), the American Dental Association (ADA), the Organization for Safety and Asepsis Procedures (OSAP) and the Occupational Safety and Health Administration (OSHA).

LICENSURE

Admission to or graduation from the SLCC Dental Hygiene Program does *NOT* guarantee the ability to obtain a license to practice dental hygiene. Licensure is the *exclusive* right and responsibility of the board of dentistry in each state. In order to practice dental hygiene, students must satisfy the requirements of individual state dental practice acts *independently* of any college or program requirements. Many states, including Utah, require background information prior to licensing candidates to practice dental hygiene, therefore, it is highly recommended that applicants consult ***in advance*** with the Utah Division of Occupational and Professional Licensing (DOPL), or similar agencies in other states, regarding eligibility for licensure. DOPL can be reached at 801-530-6628 or http://www.dopl.utah.gov/ licensing/dentistry.html.

CLINICAL PLACEMENT

Students accepted into the dental hygiene program must meet the same health and safety requirements that its clinical rotation facility providers require of their own employees. These facilities make the final determination regarding student acceptance for placement and may decline it based on the criminal background record, which may then preclude completion of program requirements. It is the responsibility of the applicant to seek advice regarding the status of their eligibility for clinical placement if their criminal background check discloses any areas of concern.

Total Program/Course Fees: Estimated $16,750

Estimated Time to Completion: Core Program requires two academic years. Additional time is required to complete prerequisites and AAS Gen Ed requirements.

Specialized Accreditation: The Commission on Dental Accreditation (CODA) of the American Dental Association (a specialized accrediting body recognized by the United States Department of Education) provides accreditation for the degree of *Associate of Applied Science in Dental Hygiene* at SLCC.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically 5 – Civic Engagement and/or Working Professionally 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
Initiate and participate in community oral health programs.	2, 4, 5, 6
Successfully complete the National Board Dental Examinations and regional/state dental hygiene licensure board examinations.	1, 2, 3,4, 5
Utilize the Dental Hygiene Process of Care (assessment, diagnosis, planning, implementation, and evaluation) to positively affect the oral health status and behavior of individuals and groups.	1, 2, 3, 4, 5, 6
Communicate effectively with patients, peers & faculty in both verbal and written forms.	1, 2, 3, 6, 7
Utilize critical thinking skills in problem solving and decision-making.	1, 3, 4, 5, 6, 7

GENERAL EDUCATION REQUIREMENTS

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within the last year, MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	

NOTE: Students must complete COMM 1010 for the Dental Hygiene program, no course substitutions will be allowed.

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
The HR requirement is met through program requirements.			

REQUIRED COURSES: (53 CREDITS)

COURSE		CR	SEM	PREREQUISITE
DH 1050	Dental Radiology	2	F	Admission into program. Coreq: DH 1060
DH 1060	Dental Radiology Lab	1	F	Admission into program. Coreq: DH 1050
DH 1100	Dental Hygiene Theory I	3	F	Admission into program. Coreq: DH 1110
DH 1110	Clinical Dental Hygiene I	2	F	Admission into program. Coreq: DH 1100
DH 1140	Dental Materials	1	Sp	DH 1050, 1060, 1100, 1110, 1330, 1340, 1350. Coreq: DH 1150
DH 1150	Dental Materials Lab	1	Sp	DH 1100, 1110, 1050, 1060, 1330, 1340. Coreq: DH 1140
DH 1330	Head and Neck Anatomy	2	F	Admission into program
DH 1340	Dental Anatomy	1	F	Admission into program
DH 1350	Dnt Embryology/Histology	1	F	Admission into program
DH 1400	Dent Hygiene Theory II	3	Sp	DH 1100 and 1110. Coreq: DH 1410
DH 1410	Clinical Dent Hygiene II	3	Sp	DH 1100 and 1110. Coreq: DH 1400
DH 1540	Pharmacology	3	Sp	DH 1100
DH 1640	Comp Patient/Spcl Needs	2	Sp	DH 1100

DH 2050	Gen & Oral Pathology	3	F	DH 1400
DH 2200	Dental Hygiene Theory III	3	F	DH 1400. Coreq: DH 2210
DH 2210	Clinical Dent Hygiene III	4	F	DH 1410. Coreq: DH 2200
DH 2220	Community Health	3	Sp	Admission into program
DH 2340	Local Anesthesia	2	F	DH 1540. Coreq: DH 2341
DH 2341	Local Anesthesia Lab	1	F	DH 1540. Coreq: DH 2340
DH 2450	Periodontology	2	F	DH 1400
DH 2600	Dent Hygiene Theory IV	3	Sp	DH 2200. Coreq: DH 2610
DH 2610	Clinical Dental Hygiene IV	5	Sp	DH 2210. Coreq: DH 2600
DH 2800	Practice Management	2	Sp	DH 2200

SAMPLE SCHEDULE

PREREQUISITES

ENGL 1010	3
MATH 1010	4
COMM 1010	3
BIOL 2060	4
BIOL 2065	0
BIOL 2320	4
BIOL 2325	0
BIOL 2420	4
BIOL 2025	0
CHEM 1110	4
CHEM 1115	1
HLTH 1020	3
SOC 1010	3
PSY 1010	3

FALL SEMESTER		**SPRING SEMESTER**	
DH 1050	2	DH 1140	1
DH 1060	1	DH 1150	1
DH 1100	3	DH 1400	3
DH 1110	2	DH 1410	3
DH 1330	2	DH 1540	3
DH 1340	1	DH 1640	2
DH 1350	1		
Total	**12**	**Total**	**13**

FALL SEMESTER		**SPRING SEMESTER**	
DH 2050	3	DH 2220	3
DH 2200	3	DH 2600	3
DH 2210	4	DH 2610	5
DH 2340	2	DH 2800	2
DH 2341	1		
DH 2450	2		
Total	**15**	**Total**	**13**

DIESEL SYSTEMS TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 66 credits minimum

Technical Specialties Division
Meadowbrook Campus, B116
General Information, (801) 957-4073
Program Information, (801) 957-5844
www.slcc.edu/diesel
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Assistant Professor – Mark Kranendonk
Instructor – Bill Kleman

Program Description: Students are taught the general concepts of diesel systems technology. Technicians in this field repair and maintain diesel equipment, such as trucks, buses and construction equipment. This includes bulldozers, earth movers, cranes and other diesel-power equipment including construction and mining.

Most diesel technicians are required to buy their own hand tools. Beginning students accumulate more tools as they gain experience. Several manufactures offer students discounts. They also may use testing equipment like dynamometers-which measure engine power. Computer based diagnostic equipment of diagnose engines, transmissions, and other vehicle based systems.

Career Opportunities: Jobs and employment opportunities are numerous and provide an excellent wage usually with good benefits. Graduates find many opportunities for employment as technicians in companies that maintain and repair both on- and off-highway equipment.

Transfer/Articulation Information: Students who earn an AAS degree in Diesel Systems Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree. Contact the University Center for current information. www.slcc.edu/universitycenter/programs or call (801) 957-4824.

Program Entry Requirements: A prospective diesel technician should be in good physical condition and have above-average mechanical ability and eye-hand coordination. Students may start this program Fall or Spring semester. For information on getting started, please visit http://www.slcc.edu/gettingstarted/index.asp

Estimated Cost for Students:
Tuition per semester: http://www.slcc.edu/cashiering/tuitionfees.asp
Tools and Supplies: $4,500
Books and Computer-assisted instruction per semester: $700

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
1. Students will obtain entry level employment skills in Diesel engine service and repair	1, 3, 4, 6, 7
2. Students will obtain entry level employment skills for hydraulic systems and servicing procedures	1, 3, 4, 6, 7
3. Students will obtain entry level employment skills for brake systems, testing and maintenance	1, 3, 4, 6, 7
4. Students will obtain entry level employment skills for electrical and electronics areas of Diesel Systems	1, 3, 4, 6, 7

5. Students will obtain entry level employment skills for transmissions	1, 3, 4, 6, 7
6. Students will obtain entry level employment skills for heavy-duty drive trains	1, 3, 4, 6, 7
7. Students will obtain entry level employment skills for truck suspensions systems	1, 3, 4, 6, 7
8. Students will obtain entry level employment skills for advanced engine performance	1, 3, 4, 6, 7

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry	3	F, Sp	MATH 0900
OR				
MATH 1010	Intermediate Algebra (QS)	4	A	Prereq: RDG 0900; and within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score.

OR

Any MATH course numbered higher than MATH 1010

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (51 CREDITS)

COURSE		CR	SEM	PREREQUISITE
DST 1010	Intro & Orientation	1	A	
DST 1045	Basic Diesel	4	F	
DST 1065	Basic Engine Perf	4	F	
DST 1145	PM Brakes	4	F	
DST 1165	PM Electrical	4	Sp	
DST 1245	Drivetrains Fluid Drvs	4	Sp	
DST 1265	Drivetrains Gear Drvs	4	Sp	
DST 2045	Adv Eng & Electronics	4	F	DST 1045 and DST 1065
DST 2065	Adv Eng & Electronics	4	Sp	DST 1045, DST 1065, DST 2045
DST 2145	HD Hydraulics Controls	4	Sp	
DST 2165	HD Hydraulic Functions	4	Sp	
DST 2245	HD Electrical Circuits	4	F	
DST 2265	HD Electrical Lighting	4	F	
WLD 1005	Related Welding	3	A	

ELECTIVES

COURSE		CR	SEM	PREREQUISITE
DST 1020	Lt Duty Diesel Mech	3	A	DST 1020

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
DST 1010	1		
DST 1045	4	DST 1165	4
DST 1065	4	DST 1245	4
DST 1145	4	DST 1265	4
IND 1120	3	CM	3
		HR	2-3
Total	**16**	**Total**	**17-18**
FALL SEMESTER		**SPRING SEMESTER**	
DST 2245	4	DST 2065	4
DST 2265	4	DST 2145	4
DST 2045	4	DST 2165	4
WLD 1005	3	DISTRIBUTION	3
		ENGL 1010	3
Total	**15**	**Total**	**18**

Advising Notes: Students will need basic reading and math skills. Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

SkillsUSA

All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employability skills. For more information see: http://www.slcc.edu/cte/skills-usa-winner-2012.aspx or http://www.skillsusa-utah.org

COOPERATIVE EDUCATION

It is possible to earn some laboratory credit through cooperative education if students are employed in a job involving diesel systems technology. With prior approval of a faculty member and/or CO-OP coordinator, students may register for the CO-OP course.

DIESEL SYSTEMS TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE] 33 credits minimum

Technical Specialties Division
Meadowbrook Campus, B116
General Information, (801) 957-4073
Program Information, (801) 957-5844
www.slcc.edu/diesel
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Assistant Professor – Mark Kranendonk
Instructor – Bill Kleman

Program Description: The one year Certificate of Completion is designed to train students in diesel systems technology. Technicians in this field repair and maintain diesel equipment, such as trucks, buses, construction and mining equipment. This includes bulldozers, earth movers, cranes and other diesel-power equipment.

Most diesel technicians are required to buy their own hand tools. Beginning students accumulate more tools as they gain experience. Several manufactures' offer students discounts. They also may use testing equipment like dynamometers-which measure engine power. Computer based diagnostic equipment of diagnose engines, transmissions, and other vehicle based systems.

Career Opportunities: Jobs and employment opportunities are numerous and provide an excellent wage usually with good benefits. Graduates find many opportunities for employment as technicians in companies that maintain and repair both on- and off-highway equipment.

Transfer/Articulation Information: Students who complete the Diesel Systems Technology Certificate of Completion may continue on to earn the Associate of Applied Science Degree in Diesel Systems Technology, or an Entrepreneurship Emphasis, or Associate of Science Transfer Emphasis. Upon completion of the AAS or AS options students may transfer to UVU to complete their BS in the Technology Management Program or in Integrated Studies. Contact the University Center for current information.

Program Entry Requirements: A prospective diesel technician should be in good physical condition and have above-average mechanical ability and eye-hand coordination. Students may start this program Summer, Fall or Spring semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Estimated Cost for Students:
Tuition per semester: www.slcc.edu/students-future/tuition-fees
Tools and Supplies: $4,500
Books and Computer-assisted instruction per semester: $450

Estimated Time to Completion: If students follow the suggested schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
1. Students will obtain entry level employment skills in Diesel engine service and repair	1, 3, 4, 6, 7
2. Students will obtain entry level employment skills for hydraulic systems and servicing procedures	1, 3, 4, 6, 7
3. Students will obtain entry level employment skills for brake systems, testing and maintenance	1, 3, 4, 6, 7

4. Students will obtain entry level employment skills for electrical and electronics areas of Diesel Systems	1, 3, 4, 6, 7
5. Students will obtain entry level employment skills for transmissions	1, 3, 4, 6, 7
6. Students will obtain entry level employment skills for heavy-duty drive trains	1, 3, 4, 6, 7
7. Students will obtain entry level employment skills for truck suspensions systems	1, 3, 4, 6, 7
8. Students will obtain entry level employment skills for advanced engine performance	1, 3, 4, 6, 7

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:*

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry (QS)	3	F	Prereq: MATH 0900 w/C grade or better.
OR				
MATH 1010	Intermediate Algebra (QS)	4	A	Prereq: RDG 0900; and within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score.

OR

Any MATH course numbered higher than MATH 1010

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Public Speaking	3	A	
OR				

Any Approved CM Class

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations	3	A	
OR				

Any Approved HR Class

NOTE: Additional General Education courses are required for students who choose to continue on to the AAS or AS degrees. Additional requirements include English Composition and courses in the Gen Ed Distribution Areas. For course selection, see the School of Technical Specialties Academic Advisor.

REQUIRED COURSES: (24 CREDITS)

COURSE		CR	SEM	PREREQUISITE
DST 1010	Intro & Orientation	1	A	
DST 1045	Basic Diesel	4	F	
DST 1065	Basic Engine Perf	4	F	
DST 1145	PM Brakes	4	F	
DST 1165	PM Electrical	4	Sp	
DST 1245	Drivetrains Fluid Drvs	4	Sp	
DST 1265	Drivetrains Gear Drvs	4	Sp	

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
DST 1010	1		
DST 1045	4	DST 1165	4
DST 1065	4	DST 1245	4
DST 1145	4	DST 1265	4
IND 1120	3	CM	3
		HR	2-3
Total	**16**	**Total**	**17-18**

Advising Notes: Students will need basic reading and math skills. Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

SkillsUSA

All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employability skills. For more information see: http://www.slcc.edu/cte/skills-usa-winner-2012.aspx or http://www.skillsusa-utah.org

ECONOMICS – ASSOCIATE OF SCIENCE[CTE] (AS) — 63 credits minimum

Accounting, Economics and Finance Division
Taylorsville Redwood Campus, BB 105
General Information, (801) 957-4073
Program Information, (801) 957-4325
www.slcc.edu/economics
Academic Advisor, BB 132A, (801) 957-4323

Finance and Economics Faculty:
Professors – A. Marlon Andrus, Joseph R. Howell, K.T. Magnusson
Associate Professors – Dennis Wilson, Dennis R. Watson
Assistant Professors – Rungrudee Suetorsak, Heather A. Schumacker

Program Description: The study of economics deals with the issue of scarcity. Questions on what to produce, how goods and services will be produced and how produced goods and services are distributed in society, represents the kinds of questions economists deal with on a daily basis. In other words, economics explores how we use scarce resources to satisfy unlimited wants in society. The study of economics utilizes historical data, theoretical models and empirical evidence to explain the behavior of individuals, firms and nations in producing and consuming goods and services.

Economics allows students to think critically, analyze complex problems and apply solutions to real world problems. Economics provides students the foundation for various academic and professional endeavors. Professionals in management, law, education, government, finance and international affairs use economic analysis. Employers and graduate schools often seek individuals with an understanding of economics.

Career Opportunities: Opportunities in the field of economics are broad and diverse. They include, but not limited to: government (federal, state, local) and private industry. Specialties can be pursued in consulting, research, and finance. Economists can specialize in a particular industry such as healthcare, transportation, or energy. Nearly all industries employ economists.

Transfer/Articulation Information: Economics programs at four-year colleges and universities are housed in social science and business schools with varying requirements. For transfer to Economics at Utah State University, Weber State University, or Southern Utah University, students should see the Business Advisor for efficient transfer planning.

Estimated Cost for Students: Varies with course selection and credit hours.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: The Economics program at SLCC is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Accreditation represents the achievement of meeting high national standards established for Associate Degree granting business programs and facilitates transfer of credits to four-year universities and colleges.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Prepare personal financial management docs. 1.2 Perform steps of financial planning and investments. 1.3 Identify financial service products and lending criteria. 1.4 Perform steps to evaluate personal and corporate credit financial analysis. 1.5 Perform steps of macro and micro economic analysis.	1 – Substantive Knowledge
2.1 Communicate effectively in writing. 2.2 Communicate effectively while working in groups. 2.3 Communicate effectively numerically.	2 – Communicate Effectively
3.1 Perform appropriate financial calculations. 3.2 Solve problems using the time value of money. 3.3 Perform macro and micro economic calculations.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it, and draw reasonable conclusions.	4 – Think Critically

5.1 Understand the political, historical, social, and economic foundations of the local, national, and global communities. 5.2 Engage in principled and vigorous dialogue.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH1050	College Algebra	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH1090	College Algebra Business	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: Students may use ECON 1600 to fulfill General Education or program course elective, but not both.

REQUIRED COURSES: (13 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ECON 2010	Microeconomics (SS)	3	A	
ECON 2020	Macroeconomics (SS)	3	A	
BUS 1100	Calculus for Bus	3	A	MATH 1050 or MATH 1090
MGT 2040	Bus Statistics I	4	A	MATH 1010 or FIN 1380, and CIS 1020

ECONOMICS ELECTIVES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ECON 1600	Intro Economic Systems	3	F	
ECON 2100	Labor Economics	3	F, Sp	ECON 2010
ECON 2200	Money & Banking	3	WSD	
ECON 2250	Environmental Economics	3	F, Sp	
ECON 2400	Interntl Econ/Finance	3	F, Sp	ECON 2010 or ECON 2020 (may be taken concurrently)

ECON 1600 satisfies both a General Education and a program elective requirement. There are 63 total credits required in this degree, students should select courses from the approved elective course list to meet that credit requirement.

ELECTIVES:
Complete 15 credits from any college course numbered 1000 or above including Economics, Finance, Management and Business courses.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ECON 2010	3	BUS 1100	3
ENGL 1010	3	ECON 2020	3
AI	3	DISTRIBUTION (2)	6
STUDENT CHOICE	3	ELEC	3
MATH 1050/1090	3-4		
Total	**15-16**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
ECON ELEC	3	ECON ELEC	3
ENGL 2010	3	DISTRIBUTION (2)	6
MGT 2040	4	HLAC	1
DISTRIBUTION (2)	6	ELEC	7
ELEC	3		
Total	**19**	**Total**	**17**

Advising Notes:
Students considering an Economics major may want to take ECON 1010 (Economics as a Social Science) as an introduction to the field. ECON 1010 will count toward the Social Science General Education requirement.

The Department recommends completion of the College Algebra requirement before second year Economic courses are taken.

Students transferring to Westminster College Economics BS degree should take PHIL 1130, ACCT 2010.

Students transferring to University of Utah Business minor should take ACCT 2010, ACCT 2020 and BUS 1050.

Cooperative Education is the college's strategy for recognizing and rewarding new learning associated with study-related employment in a business, industrial or government work environment. Credits earned from Finance or Management 2000 are applied toward Economics in the 'Other Elective' category. Contact CO-OP Education at (801) 957-4014.

The semester in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

Students who wish to take the CIS 1020 (Computer Essentials) challenge exam are advised to review the information at http://www.slcc.edu/csis/CIS1020-challenge-exam.aspx. An 80% or higher is required on each section of the test. Once the exam is passed a P is posted to the transcript and credit is awarded.

EDUCATION – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information, (801) 957-4073
Education Information, (801) 957-5035
www.slcc.edu/education
Academic Advisor, AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Faculty:
Professors – Ray Emmett, Paul Lerdahl, Dale Smith
Associate Professors – Judy Braun, Lois Oestreich, TC Stuwe
Instructor – Kit Giddings

Program Description: The Education Program is a two-year program designed to prepare students to transfer to an accredited four-year teaching program. Students completing the program will develop skills and receive the hands-on experience necessary to be accepted into the professional core of courses offered at the university level.

Specific requirements leading to a bachelor's degree in education differ among the four-year higher education institutions. To tailor a program specific to student needs, meet with the Education Academic Advisor prior to registering for courses.

SECONDARY EDUCATION
Not all teaching majors are offered at all USHE schools. Meet with the Education Academic Advisor for the specific transfer information about the major(s), minor(s) at the school to which you plan to transfer. Most colleges and universities require EDU 1010. *Efficient transfer planning is essential.*

Transfer/Articulation Information: Students should select electives based on the institution to which they intend to transfer. Electives beyond those listed below may be selected with approval from faculty or advisor. Students should consult with the Education Academic Advisor to ensure that the correct classes are taken for transferability to their school of choice. Guidelines for transfer are listed below and are subject to change. Students are also advised to contact the Education Advisor at the school(s) to which they intend to transfer.

ELEMENTARY EDUCATION

UNIVERSITY OF UTAH - Elementary Education
General Education (with some specific choices), EDU 1010, EDU 2011, EDU 2030, EDU 2110, EDU 2140, EDU 2150, EDU 2410, ENGL 1200, ETHS 2410 or ETHS 2420 or ETHS 2430 or ETHS 2440 or HUMA 2220, FHS 1500, FHS 2640, FHS 2645. MATH 1050 is a pre-requisite for MATH 4010 at the U of U and must be less than two years old. Meet with the Education Academic Advisor for further information.

UTAH STATE UNIVERSITY – Elementary Education GRADES K-6, Pre-K-8, or 1-8
General Education (with some specific choices), EDU 1010, FHS 1500, FHS 2600*/0010, FHS 2610/0011, MATH 1050, MATH 2010 AND MATH 2020. For Pre-K- 8 & grades 1-8 take the above classes as well as HLTH 1200. *FHS 2600/0010 not needed for grades 1-8 licensure. Meet with the Education Academic Advisor for further information.

WEBER STATE UNIVERSITY - Elementary Education GRADES K-6
General Education (with some specific choices), Art 1020 (fulfills FA @ SLCC), COMM 1020 (fulfills Student Choice @ SLCC) or COMM 2110 (fulfills ID @ SLCC), GEOG 1300 (Fulfills ID @ SLCC), EDU 1010, EDU 2010, EDU 2110, ENGL 2330, FHS 1500, FHS 2610/0011, FHS 2620/0010, MATH 2010, MATH 2020. Weber requires each student to have an area of specialization, there are additional SLCC courses that can transfer to fulfill those. Meet with the Education Academic Advisor for further information.

UTAH VALLEY UNIVERSITY - Elementary Education GRADES K-6
General Education (with some specific choices), EDU 1010 w/B- or higher, EDU 2010, EDU 2140, ENGL 2330, MATH 2010 w/C or higher, and MATH 2020 w/C- or higher. FHS 1500 is strongly suggested for the Social Science General Education requirement. Meet with the Education Academic Advisor for further information.

SOUTHERN UTAH UNIVERSITY - Elementary Education GRADES K-6
General Education (with some specific choices), EDU 1010, EDU 2010, EDU 2110, FHS 1500, MATH 2010, MATH 2020. SUU requires each student to have an area of specialization, there are additional SLCC courses that can transfer to fulfill those. Meet with the Education Academic Advisor for further information.

DIXIE STATE COLLEGE - Elementary Education
General Education (with some specific choices), EDU 1010, EDU 2010, EDU 2110, EDU 2140, EDU 2150, FHS 1500, MATH 2010, MATH 2020. Meet with the Education Academic Advisor for further information.

WESTMINSTER COLLEGE - Elementary Education
Meet with the Education Academic Advisor for further information.

EARLY CHILDHOOD EDUCATION

UNIVERSITY OF UTAH - Early Childhood Education
This program has been discontinued at the University of Utah. Students interested in teaching K-3rd will now be required to pursue the Elementary Education (K-6) degree. Please see requirements above. Meet with the Education Academic Advisor for further information.

UTAH STATE UNIVERSITY - Early Childhood Education K-3 Certification
General Education (with some specific choices), EDU 1010, FHS 1500, FHS 2600/0010, FHS 2610/0011, MATH 1050, MATH 2010 AND MATH 2020. Meet with the Education Academic Advisor for further information.

WEBER STATE UNIVERSITY - Early Childhood Education
General Education (with some specific choices), ART 1020 (fulfills FA requirement at SLCC), COMM 1020 (fulfills Student Choice requirement at SLCC) or COMM 2110 (fulfills ID requirement at SLCC), GEOG 1300 (fulfills ID requirement at SLCC), EDU 1010, EDU 2010, EDU 2110, ENGL 2330, FHS 1500, FHS 2500/0010, FHS 2600/0010, FHS 2610/0011, FHS 2620/0010, FHS 2640, MATH 2010, MATH 2020. Meet with the Education Academic Advisor for further information.

SOUTHERN UTAH UNIVERSITY – Early Childhood Education is an emphasis area within Elementary Education.
General Education (with some specific choices), EDU 1010, EDU 2010, EDU 2110, FHS 1500, MATH 2010, MATH 2020. Meet with the Education Academic Advisor for further information.

SPECIAL EDUCATION

UNIVERSITY OF UTAH – Special Education
General Education (with some specific choices), EDU 1010, EDU 1400 or EDU 2010, EDU 2011, EDU 2030, EDU 2140, EDU 2150, EDU 2410, ENGL 1200, ETHS 2410 or ETHS 2420 or ETHS 2430 or ETHS 2440, FHS 2640, FHS 2645. FHS 1500 is strongly recommended to meet SLCC's Social Science requirement. Meet with the Education Academic Advisor for further information.

UTAH STATE UNIVERSITY - Special Education
General Education (with some specific choices), EDU 1010, FHS 1500, MATH 2010, MATH 2020. USU has multiple teaching options with their special education degree, meet with the Education Academic Advisor for further information.

WEBER STATE UNIVERSITY – Special Education
General Education (with some specific choices), COMM 1020 (fulfills Student Choice @ SLCC) or Comm 2110 (fulfills ID @ SLCC), EDU 1010, EDU 2010, EDU 2110, ENGL 2330, MATH 2010, MATH 2020, FHS 1500, FHS 2400 or FHS 2500 or FHS 2570 or FHS 2640. Weber requires each student to have an area of specialization, there are additional SLCC courses that can transfer to fulfill those. Meet with the Education Academic Advisor for further information.

SOUTHERN UTAH UNIVERSITY- Special Education
General Education (with some specific choices), EDU 1010, EDU 2010, EDU 2110, MATH 2010, MATH 2020. Meet with the Education Academic Advisor for further information.

WESTMINSTER – Special Education
Meet with the Education Academic Advisor for further information.

SECONDARY EDUCATION

UNIVERSITY OF UTAH – Secondary Education

General Education (with some specific choices), EDU 1010, EDU 2010 or 2011, EDU 2030, EDU 2150, EDU 2410, FHS 1230. These classes are in addition to the classes for the major you are planning on teaching. Meet with the Education Academic Advisor for further information.

Estimated Cost for Students: Estimated cost of books and supplies per semester $350 to $450

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1a. Develop knowledge, skills, and experience to work effectively with elementary and secondary students in public or private school settings. 1b. Be prepared for further study in education or a related discipline. 1c. Understand key concepts, events and personalities related to teaching and learning. 1d. Explain theories, concepts and principles connected to the physical, intellectual, social, and emotional development of children. 1e. Evaluate and prepare curriculum and program activities consistent with current educational theories and models. 1f. Incorporates core knowledge content in a classroom setting. 1g. Develop a Working knowledge of State of Utah Core Curriculum.	1 – Substantive Knowledge
2a. Effectively communicate orally and in writing about key concepts and significant topics in education. 2b. Develop and maintain appropriate state and Federal documentation including IEP's, IFSP's. 2c. Demonstrates effective verbal and nonverbal communication techniques with students and families.	2 – Communicate Effectively
3a. Use and interpret information represented as data, graphs, and tables to analyze relevant information for working with students in a classroom setting. 3b. Interpret various mathematical concepts as they pertain to assessing learning.	3 – Develop Quantitative Literacy
4a. Construct a personal philosophy of education. 4b. Systematically complete reflective assignments demonstrating analysis, synthesis, and evaluation.	4 – Think Critically
5a. Successfully complete service learning and field experience in predetermined local elementary and secondary schools. Dialogue with seasoned professionals in the field to enhance theoretical perspectives.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
EDU 1010	Orient to Elem Ed	3	F, Sp	
FHS 1500	Human Devlop	3	A	

ELECTIVES: (21 CREDITS)

Students should select electives based on the institution to which they intend to transfer. See transfer notes above.

COURSE		CR	SEM	PREREQUISITE
EDU 1400	Study of Disability (SS,DV)	3	A	
EDU 1900	Special Topics in Ed	1-2	F, SP	Instructor permission
EDU 2000	CO-OP	1-2	F, Sp	EDU 1010 and FHS 1500
EDU 2010	Intro Special Ed	3	A	
EDU 2011	Inclusive Class	3	F, Sp	
EDU 2030	Research in Ed	3	F, Sp	
EDU 2110	Ed Psych Learning & Lit	3	A	
EDU 2140	Tech in the Class	2	F, Sp	
EDU 2150	Multi Culture Edu	3	A	
EDU 2410	Ed Law for Teach	3	F, Sp	
ENGL 1200	Intro Linguistics	3	F, Sp	
ENGL 2330	Children's Literature	3	F,Sp	ENGL 1010 w/C grade or better
*ETHS 2440	Native Amer (SS, DV)	3	F, Sp	
*ETHS 2420	Asian Amer (SS, DV)	3	F, SP	
*ETHS 2410	African Amer (SS, DV)	3	F, Sp	
*ETHS 2430	Mexican Amer (SS, DV)	3	A	
FHS 1230	Adolescent Growth	3	F	
FHS 2610	Child Guidance	3	F, Sp	Coreq: FHS 0010
FHS 2640	Home/Schl/Cmnity Relations	3	F, Sp	
FHS 2645	EC Integrated Curriculum	3	A	
**MATH 2010	Mth Elem Tech I	3	F	Within the last year, MATH 1050 w/C grade or better or appropriate Accuplacer score
**MATH 2020	Mth Elm Tech II	3	Sp	Within the last year, MATH 2010 w/C grade or better

*Select only one course from ETHS 2410, ETHS 2420, ETHS 2430, ETHS 2440 or HUMA 2220.

**Students should check with the Education Academic Advisor to make sure they select the appropriate math course.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
EDU 1010	3	ENGL 2010	3
ENGL 1010	3	HU	3
FHS 1500	3	HLAC	1
FA	3	EDU ELEC	3
ID	3	EDU ELEC	3
		STUDENT CHOICE	3
Total	**15**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
EDU ELEC	3	EDU ELEC	3
EDU ELEC	3	EDU ELEC	3
PS	3	EDU ELEC	3
AI	3	BIOL SCI	3-4

MATH 1050	4	SS	3
Total	**16**	**Total**	**15-16**

Advising Notes: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See the Education Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

PARAEDUCATION – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information: (801) 957-4073
Education Information: (801) 957-5035
www.slcc.edu/education
Academic Advisor: AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Associate Professor – Lois Oestreich
Instructor – Kit Giddings

Paraeducation courses are taught by a combination of faculty members from the departments of Education, Family & Human Studies and qualified adjunct instructors familiar with the education of students at risk.

****PLEASE NOTE THAT THE PARAEDUCATION PROGRAM IS SCHEDULED TO BE DISCONTIUTED EFFECTIVE SUMMER SEMESTER 2015.****

Program Description: This program is designed to prepare students to work as paraeducators in public school districts under the direction of certified classroom educators. Paraeducators who have taken the courses listed below assist classroom teachers by providing instructional support to students receiving specialized services (Title I and/or special education) in K-12 classrooms. Students desiring to transfer some of the courses to a four-year degree should plan carefully and consult with an academic advisor.

This program qualifies for requirements of the Federal "No Child Left Behind" Act.

Transfer/Articulation Information: For students enrolled in the associate degree program, special arrangements have been made with Utah State University to allow students to transfer the PED core courses as an emphasis area in either elementary or special education. Students planning on transferring to Utah State University (or other higher education institutions) should consult with an academic advisor to determine appropriate General Education and elective course work.

Admission into a major program at a transfer institution depends on the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See and academic advisor at both SLCC and the intended transfer institution for specific articulation information.

Estimated Cost for Students: Estimated cost of books per semester $350.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1a. Develop knowledge, skills, and experience to work effectively with children based on industry standards. 1b. Be prepared for further study in education or a related discipline. 1c. Understand key concepts, events and personalities related to education. 1d. Explain theories, concepts and principles connected to the physical, intellectual, social, and emotional development of children. 1e. Evaluate and prepare curriculum and program activities consistent with current research on learning theory and models. 1f. Incorporates core knowledge content in a classroom setting. 1g. Working knowledge of State of Utah Core Curriculum.	1 – Substantive Knowledge
2a. Effectively communicate orally and in writing about key concepts and significant topics in education. 2b. Maintain appropriate state and Federally required documentation. 2c. Demonstrates effective nonverbal communication techniques with	2 – Communicate Effectively

children.	
3a. Use and interpret information represented as data, graphs, and tables to analyze relevant information for working with children in a classroom setting.	3 – Develop Quantitative Literacy
4a. Construct a personal philosophy of education. 4b. Systematically complete reflective assignments demonstrating analysis, synthesis, and evaluation.	4 – Think Critically
5a. Successfully complete service learning and laboratory experiences in predetermined learning environments. Dialogue with seasoned professionals in the field to enhance theoretical perspectives. 5b. Demonstrates appropriate social and interpersonal relationship skills in a variety of professional contexts.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1040	Intro Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade of better or appropriate Accuplacer score
OR				
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. Once of the courses must also be a Diversity course (DV).

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Physical Science (PS)	3		
Social Science (SS)	3		

REQUIRED COURSES: (19 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FHS 1500	Human Development	3	A	
OR				
PSY 1100	Lifespan Human Dev (SS)	3	A	
EDU 2010	Intro to Special Ed	3	A	
PED 1010	Intro Paraeducation	3	F, Sp	
PED 1700	Collaboration in Classroom	3	F	PED 1010

PED 2150	Exp. W/Stud Rsk	3	Sp	PED 1010
PED 2160	Practicum Int Ex	1	Sp	Coreq: PED 2150
SOC 2630	Race/Ethnic Rel	3	F, Sp	SOC 1010

ELECTIVE COURSES: (10 CREDITS)

Students should select electives based on personal interest as well as the requirements for elementary education or special education at the institution to which they intend to transfer. Student should consult with an academic advisor to determine appropriate elective courses.

COURSE		CR	SEM	PREREQUISITE
EDU 1010	Orient to Elem Educ	3	A	
FHS 2400	Marriage Family Rel (ID)	3	A	
FHS 2610	Child Guidance	3	F, Sp	Coreq: FHS 0010
FHS 2570	Growth Dev: 6 – 12	3	Sp	
FHS 2640	Home School Family Comm	3	F, Sp	
LANG ____	(Any Language)	5	A	
LE 1240	Tutor Certification	1	A	
MATH 2010	Math Elem Teach I	3	F	Within last year, MATH 1050 w/C grade or better
MATH 2020	Math Elem Teach II	3	Sp	Within last year, MATH 2010 w/C grade or better
PED 2100	Health Needs in Classroom	3	Sp	PED 1010
PED 2990	Special Studies Paraeduc	1-3	A	Instructor approval

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
AI	3	FHS 1500	3
DISTRIBUTION (3)	9	**OR**	
		PSY 1100	3
		Math1040/1050	3-4
		LW	1
		ELEC	3
		PED 1010	3
Total	**15**	**Total**	**16-17**

FALL SEMESTER		**SPRING SEMESTER**	
PED 1700	3	EDU 2010	3
SOC 2630	3	PED 2150	3
DISTRIBUTION (2)	6	PED 2160	1
ELEC	4	DISTRIBUTION	3
		STUDENT CHOICE	3
		ELEC	3
Total	**16**	**Total**	**16**

Advising Notes:

MATH 1050 is needed for Elementary Education at Utah State University, Weber State University and University of Utah.

It is the student's responsibility to examine each course description to determine if prerequisites are required. Prerequisites must be satisfied before a class may be taken.

The semesters in which courses are taught are listed. Students should check the semester class schedule for day/evening availability, EDNET availability and other modifications to the semester class schedule.

PARAEDUCATION – CERTIFICATE OF PROFICIENCY[CTE] 19 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information: (801) 957-4073
Education Information: (801) 957-5035
www.slcc.edu/education
Academic Advisor: AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Associate Professor – Lois Oestreich
Instructor – Kit Giddings

Paraeducation courses are taught by a combination of faculty members from the departments of Education, Family & Human Studies and qualified adjunct instructors familiar with the education of students at risk.

****PLEASE NOTE THAT THE PARAEDUCATION PROGRAM IS SCHEDULED TO BE DISCONTIUTED EFFECTIVE SUMMER SEMESTER 2015.****

Program Description: This program is designed to prepare students to work as paraeducators in public school districts under the direction of certified classroom educators. Paraeducators who have taken the courses listed below assist classroom teachers by providing instructional support to students receiving specialized services (Title I and/or special education) in K-12 classrooms. This program qualifies for requirements of the Federal "No Child Left Behind" Act.

Students who do not desire to transfer and/or obtain an associate degree can obtain a Paraeducation Certificate of Completion. To obtain the certificate, students will be required to complete the core courses with a grade of C or better.

Estimated Cost for Students: Estimated cost of books per semester $350.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1a. Develop knowledge, skills, and experience to work effectively with children based on industry standards. 1b. Be prepared for further study in education or a related discipline. 1c. Understand key concepts, events and personalities related to education. 1d. Explain theories, concepts and principles connected to the physical, intellectual, social, and emotional development of children. 1e. Evaluate and prepare curriculum and program activities consistent with current research on learning theory and models. 1f. Incorporates core knowledge content in a classroom setting. 1g. Working knowledge of State of Utah Core Curriculum.	1 – Substantive Knowledge
2a. Effectively communicate orally and in writing about key concepts and significant topics in education. 2b. Maintain appropriate state and Federally required documentation. 2c. Demonstrates effective nonverbal communication techniques with children.	2 – Communicate Effectively
3a. Use and interpret information represented as data, graphs, and tables to analyze relevant information for working with children in a classroom setting.	3 – Develop Quantitative Literacy
4a. Construct a personal philosophy of education.	4 – Think Critically

4b. Systematically complete reflective assignments demonstrating analysis, synthesis, and evaluation.	
5a. Successfully complete service learning and laboratory experiences in predetermined learning environments. Dialogue with seasoned professionals in the field to enhance theoretical perspectives. 5b. Demonstrates appropriate social and interpersonal relationship skills in a variety of professional contexts.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (19 CREDITS)

COURSE		CR	SEM	PREREQUISITE
EDU 2010	Intro to Special Ed	3	A	
FHS 1500	Lifespan Human Dev (SS)	3	A	
OR				
PSY 1100	Human Growth/Develop	3	A	
PED 1010	Intro Paraeducation	3	F, Sp	
PED 1700	Collaboration in Classroom	3	F	PED 1010
PED 2150	Exp. W/Stud Rsk	3	Sp	PED 1010
PED 2160	Practicum Int Ex	1	Sp	Coreq: PED 2150
SOC 2630	Race/Ethnic Rel	3	F, Sp	SOC 1010

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
EDU 2010	3	PED 1700	3
FHS 1500	3	PED 2150	3
OR		PED 2160	1
PSY 1100	3	SOC 2630	3
PED 1010	3		
Total	**9**	**Total**	**10**

Advising Notes: It is the student's responsibility to examine each course description to determine if prerequisites are required. Prerequisites must be satisfied before a class may be taken.

The semesters in which courses are taught are listed. Students should check the semester class schedule for day/evening availability, EDNET availability and other modifications to the semester class schedule.

ELECTRONICS ENGINEERING TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 64 credits minimum

Program Division Division of Natural Science and Engineering
Program Location: Taylorsville Redwood Campus
General Information, 801-957-4150
Program Information, Phone (801) 641-9097
Program Website
Academic Advisor Devan Church, Office: SI 209, Phone: (801) 957-4858

Program Faculty:
Associate Professors – Lee Brinton
Instructors – Joel Clarkson, Michael Stenquist, Allen Tanner

Program Description: The Associate of Applied Science degree in Electronic Engineering Technology provides the student with a solid foundation in electronics theory, application as well as established and emerging technologies. This program is designed for students who intend to enter the work force after obtaining the AAS degree. Students will be prepared to operate, install, troubleshoot, repair, maintain and service electronic equipment and systems. The program has a solid core in electronics and advanced courses which continue to build upon the fundamentals. The courses emphasize mastery of theory as well as attainment of skills and competencies vital to workforce needs.

Career Opportunities: Students who complete an Associates of Applied Science degree in Electronics Engineering Technology can pursue careers in many areas of research and development, space, defense, government, consumer electronics, biomedical. Examples of occupations include electronic installers and repairers, radio and telecommunications equipment installers and repairers, electronics development (R&D) technicians, electronics manufacturing and production technicians.

Transfer/Articulation Information: See Academic Advisor: Devon Church (801) 957-4858

Program Entry Requirements:

Total Program/Course Fees: $400 in lab fees

Estimated Cost for Students: $600 in books and supplies

Estimated Time to Completion: 4 semesters

Specialized Accreditation: none

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate proficiency in key electronics engineering technology areas including (a) standard electronics assembly techniques, (b) DC and AC electronics, (c) Linear and Digital Circuit simulation, analysis and design, (d) microprocessors (e) communication systems (f) measurement techniques (g) Electronics troubleshooting (h) competency for certification and licensure.	1 – Acquire Substantive Knowledge
Students will demonstrate appropriate technical reporting, writing and communication skills	2 – Communicate Effectively
Students will demonstrate proficiency in mathematics, especially trigonometry, appropriate for electronics engineering technology	3 – Develop Quantitative Literacy
Students will demonstrate proficiency in design, analysis, application and troubleshooting of electrical circuits, electronic instrumentation, and related equipment/devices.	4 – Think Critically and Creatively
Students shall 1. Demonstrate an understanding of concepts of personal and professional ethics, and social responsibility locally, nationally and globally. 2. Understand the value of diversity in society and the workplace. 3. Interact effectively with others, demonstrating empathy and conflict resolution skills.	5 – Be Civically Engaged

Students will demonstrate mastery of skills and protocols according to recognized standards and certifications	6 – Work Professionally and Constructively
Students will master computer operation and structure.	7 – Develop Computer and Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3-5 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDN 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM,IN)	3	A	
COMM 1020	Prin Public Speaking (CM,IN)	3	A	
CTEL 1020	Career Speech Skills (CM)	3	F, Sp	

HUMAN RELATIONS (HR) 3 CREDITS CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 2110	Interpersonal Comm.	3	A	
CTEL 1010	Leadership & Team Building	3	A	
ENGL 1030	Writing in Professions	3	A	
LE 1220	HR for Career Development	3	A	
MKTG 1960	Professionalism in Business	3	A	

DISTRIBUTION AREAS (3 CREDITS)

Choose an additional three credits from at least 1 of the following Distribution Areas.

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Social Science (SS)	3		

REQUIRED COURSES: (48 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MATH 1060	Trigonometry	3	A	Math 1050 with C or appropriate CPT score
EE 1010	Basic Electronics	1	F/Sp	
EET 1130	Digital Systems	4	F/Sp	Credit for or concurrent enrollment in MATH 1010 or higher
EET 1140	AC and DC Circuits	4	F/Sp	EE 1010 and credit for or concurrent enrollment in MATH 1060.
EET 2110	Semiconductor Circuits	4	F/Sp	EET 1140
EDDT 2180	PCB Design	3	F/Sp	EE 1010
EET 2120	Power and Motors	4	F	EET 1140
EET 2140	Communications Systems	4	Sp	EET 2110
MCCT 1500 & MCCT 1510	Manual Machining	2+1	A	
EET 2160	Troubleshooting	4	Sp	EET 2110 and EET 2150
EET 2170	Industrial Controls	4	Sp	EET 2140
PHYS 1010	Conceptual Physics	3	A	
MATH 1040	Statistics	3	A	
EET 2150	Embedded Systems	4	F	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
EE 1010	1	EET 1140	4
EET 1130	4	EDDT 2180	3
MATH 1050	4	MATH 1060	3
PHYS 1010	3	ENGL 1010	3
EET 2150	4	MATH 1040	3
Total	**16**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
EET 2120	4	EET 2140	4
EET 2110	4	EET 2160	4
MCCT 1500 & 1510	2+1	EET 2170	4
HR	3	COMM 1020	3
		DS	3
Total	**14**	**Total**	**18**

Advising Notes:

ELECTRONICS ENGINEERING TECHNOLOGY – CERTIFICATE OF COMPLETION [CTE] 31 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341
General Information, (801) 957-4827
Program Information, (801) 957-4150
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Associate Professors – Lee Brinton
Instructors – Joel Clarkston, Michael Stenquist, Allen Tanner

Program Description: The Electronic Engineering Technology Certificate of Completion provides the student with a foundation in electronics theory, application as well as established and emerging technologies. This program is designed for students who intend to enter the work force after obtaining the Certificate of Completion degree. Students will be prepared to operate, install, troubleshoot, repair, maintain and service electronic equipment and systems. The program has a solid core in electronics and advanced courses which continue to build upon the fundamentals. The courses emphasize mastery of theory as well as attainment of skills and competencies vital to workforce needs.

Career Opportunities: Students who complete a Certificate of Completion in Electronics Engineering Technology can pursue careers in many areas of research and development, space, defense, government, consumer electronics, biomedical. Examples of occupations include electronic installers and repairers, radio and telecommunications equipment installers and repairers, electronics development (R&D) technicians, electronics manufacturing and production technicians. The courses taken in fulfillment of the Certificate of Completion can be applied to an Associate of Applied Science should the student decide to pursue an AAS degree later.

Transfer/Articulation Information: See Academic Advisor

Total Program/Course Fees: $200 in lab fees

Estimated Cost for Students: $ 600 in books and supplies

Estimated Time to Completion: If students follow the sample schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate proficiency in key electronics engineering technology areas including (a) standard electronics assembly techniques, (b) DC and AC electronics, (c) Linear and Digital Circuit simulation, analysis and design, (d) microprocessors (e) communication systems (f) measurement techniques (g) Electronics troubleshooting (h) competency for certification and licensure.	1 – Acquire Substantive Knowledge
Students will demonstrate appropriate technical reporting, writing and communication skills	2 – Communicate Effectively
Students will demonstrate proficiency in mathematics, especially trigonometry, appropriate for electronics engineering technology	3 – Develop Quantitative Literacy
Students will demonstrate proficiency in design, analysis, application and troubleshooting of electrical circuits, electronic instrumentation, and related equipment/devices.	4 – Think Critically and Creatively
Students will demonstrate mastery of skills and protocols according to recognized standards and certifications	6 – Work Professionally and Constructively

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra (QL)	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

REQUIRED COURSES: (19 CREDITS)

COURSE		CR	SEM	PREREQUISITE
EE 1010	Basic Electronics	1	A	
EET 1130	Digital Systems	4	F	
MATH 1060	Trigonometry	3	A	MATH 1050 or placement
EET 1140	AC & DC Circuits	4	S	MATH 1060
EET 2110	Semiconductor Circuits	4	S	EE 1010
PHYS 1010	Conceptual Physics	3	A	EE 1010

ELECTIVE COURSES: (SELECT 1 COURSE FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
EET 2120	Power and Motors	4	F	EET 1140
EET 2140	Communications Systems	4	S	MATH 1060
EET 2160	Trouble Shooting	3	S	EET 2110 & MEEN 1050 & MEEN 2655
EET 2170	Industrial Controls	3	S	EET 1140
EDDT 2180	PC Board Design	3	A	
MEEN 1050	Intro to Mech Eng	3	A	Coreq: MEEN 2655
MEEN 2655	Mech Eng Prac.	1	A	Coreq: MEEN 1050

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CM	3	EET 1140	4
EE 1010	1	EET 2110	4
MATH 1050	4	MATH 1060	3
EET 1130	4	ELEC	3
PHYS 1010	3	HR	2
Total	**15**	**Total**	**16**

Advising Notes: To complete this program as outlined, students should enter with math proficiency at MATH 1010 or above. Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. The semesters in which courses are taught are listed above. Students should check the semester class schedule for day/ evening availability and modifications caused by varying enrollment.

AUTOMATION AND INSTRUMENTATION TECHNICIAN – CERTIFICATE OF COMPLETION[CTE] 1362 CLOCK HOURS

Program Division: Applied Technology
Program Location: Westpointe Center, Room 216. (Main Classroom)
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/electronics/index.aspx
Academic Advisor: Lynda Gray, ATC 219, 801-957-5127

Program Faculty:
Associate Professors – Gilbert Ulibarri
Assistant Professors – Richard Hemingway
Adjunct Instructor – Michael Barela

Program Description:
This program is designed to support a wide variety of Automated Controls and Instrumentation occupations, involving automated systems, instrumentation, measurements, electric motors, controls systems, robotics, mechatronics, and the application of fluid power systems. In addition, this program follows the guidelines of the International Society of Automation, offering related courses that help to support and prepare for the ISA associate CST examination, as an entrance point. This Core Automation will provide the valued skills set required by industries involved in manufacturing, mining, refineries, building automation, renewable energy, and full-on industrial controls systems. The program starts out with a solid foundation of the basic theory, laws, circuits, and fundamentals of AC/DC, solid-state and digital electronics. In addition, the student will learn how to use various test equipment for trouble-shooting and repair of electronic circuits. This course covers electronic components, how they function, and how to test devices. Students learn the skills required of an Automation and Instrumentation Technician to understand, maintain, troubleshoot, and repair modern electronic automated systems. Coverage of industrial data communications is also included, as well as applications, theory and project based programmable logic controllers.

Career Opportunities:
Automation and Instrumentation Controls careers are involved in the creation and application of technology to monitor and control the production of goods and services. Many occupations are listed under the Robotics O-Net occupations title, sample of reported job titles: Field Service Technician, Instrument Specialist, Instrumentation Technician, Automation Technician, Electrical and Instrumentation Technician (E and I Technician), Control Technician, Electronics Technician, Industrial Electrician, Electrical Technician, Electrician, Electrical and Instrument Technician (E&I Tech), Instrument and Electrical Technician (I&E Tech). These occupations have similar skills, but the types of automated systems being supported will vary, but the as a whole the principles are the same. Automation and Instrumentation encompasses many areas, aerospace corporations, new sources for clean electric power generation, medical equipment design and production, cyber-security , artificial intelligence systems, petroleum production and handling, theme park design and production, chemical corporations, building design and construction/Smart homes, pharmaceutical corporations , and many, many more exciting industries. The opportunities are almost unlimited for a Technician to build, install, test, or maintain robotic equipment or related automated production systems.

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3024.01 - Robotics Technicians
- 17-3023.01 - Electronics Engineering Technicians
- 17-3024.00 - Electro-Mechanical Technicians
- 49-2094.00 - Electrical and Electronics Repairers, Commercial and Industrial Equipment
- 49-9012.00 - Control and Valve Installers and Repairers, Except Mechanical Door
- 49-9071.00 - Maintenance and Repair Workers, General
- 49-9099.01 - Geothermal Technicians

Transfer/Articulation Information:
Articulation to an AAS is in process with the School of Science, Mathematics, and Eng.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 10.00

Ability to distinguish differences in color
Basic Computer Literacy required. Please see the department or department website for entry-level requirements.

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/electronics/index.aspx

Estimated Time to Completion:
1362 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
The student will be able to demonstrate the ability to perform basic thru-hole and surface mount soldering for electronic assemblies.	1,2,3,4,6,7
The student will be able to apply Electronics Math concepts, Mathematics and Formulas, basic math, metric notation, algebra, and right-triangle trigonometry, statics, and utilize scientific calculators.	1,2,3,4,6,7
The student will be able to utilize Technical Writing concepts, applying knowledge to demonstration and usage of lab reports, proposals, communications, and engineering lab project reports and related documentation	1,2,3,4,6,7
The student will be able to demonstrate DC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, DC power supplies usage, DMM and analysis.	1,2,3,4,6,7
The student will be able to demonstrate AC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, usage of Oscilloscopes/Function Generator/ Frequency Counter/DMM and analysis.	1,2,3,4,6,7
The student will be able to demonstrate Analog Devices & concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, Data sheets/pin-outs/electrical specifications, Active device handling precautions, and analysis.	1,2,3,4,6,7
The student will be able to demonstrate Digital Circuits & Application Fundamentals & concepts, electrical theory, calculations, circuit and component characteristics, circuit simplification, Boolean Algebra, circuit construction, test/measurements, schematics, troubleshooting, logic analyzers/logic probe usage, and analysis of timing diagrams.	1,2,3,4,6,7
The student will be able to demonstrate knowledge at an Associate Technician level, by obtaining CET certification.	1,2,3,4,6,7
The student will be able to demonstrate a working knowledge of Test & Measurement Instrumentation concepts, competencies, utilize all features and functions of Oscilloscopes, Waveform Generators, DMM, Logic analyzers, and Spectrum Analyzers, as well as what is current in the Test & Measurement Industry.	1,2,3,4,6,7

The student will be able to demonstrate an understanding of the national electrical code, the structure and logic of the NEC, including the index, annexes, and Article 90.	1,2,3,4,6,7
The student will be able to demonstrate automated systems knowledge, Instrumentation and Motion Control, industrial maintenance, servomechanisms, components, circuits, control techniques, calibration, tuning and programming associated with industrial automated systems.	1,2,3,4,6,7
The student will be able to demonstrate instrumentation and control documentation, development of piping and instrument diagrams (P&IDs), related ANSI/ISA drawings, and the reading/interpreting of these documents.	1,2,3,4,6,7
The student will be able to demonstrate measurement and control knowledge, fundamentals of industrial process, measurement, and control, apply principles necessary to understand the variables that affect industrial automation and process control systems, process control, loops, analytical measurement, process visualization and process control computer-based systems.	1,2,3,4,6,7
The student will be able to demonstrate electric motors and control systems knowledge, motor types, control systems, electric motor operation, selection, installation, control, industrial applications of variable speed drives, torque, constant horsepower, variable torque/variable horsepower, starter circuits, and maintenance.	1,2,3,4,6,7
The student will be able to demonstrate fluid power systems knowledge, fluid power technology, how electrical currents control the operation of fluid power systems, the design, analysis, operation, and maintenance of fluid power systems.	1,2,3,4,6,7
The student will be able to demonstrate maintenance of instruments & systems knowledge, maintenance requirements for pneumatic and electrical/electronic devices, DCS systems, analytical instrumentation, fiber optics, smart instruments, installing, configuring and calibrating transmitters, transducers, and controllers.	1,2,3,4,6,7
The student will be able to demonstrate troubleshooting automated systems knowledge, systematic approach to logical troubleshooting, test equipment, programmable electronic systems, communication circuits, transient problems, software, start-up of single-and multi-loop control loops, pressure, level, flow, and how temperature loops operate to maintain good process control systems.	1,2,3,4,6,7
The student will be able to demonstrate knowledge of industrial data communications, troubleshooting, maintain both legacy/ leading-edge systems, terminology, standards, protocols including EIA/TIA 232, 485, and IEEE 802.	1,2,3,4,6,7
The student will be able to demonstrate programmable logic controllers knowledge, programming, installation, maintaining procedures, hardware components, development of wiring diagrams, Ladder Logic Programs, Programming of Timers, Counters, Data Manipulation, Sequencer, Shift Register Instructions, troubleshooting of process control, Network Systems, SCADA and usage of the CLX Controllers.	1,2,3,4,6,7
The student will be able to demonstrate fundamental knowledge of Automation and Systems by obtaining the CST associate level certification, by passing the ISA Control Systems Technician Associate recognition examination.	1,2,3,4,6,7

REQUIRED COURSES: 1362 CLOCK HOURS

COURSE		Clock Hours	SEM	PREREQUISITE
KELA 0190	Assembly & Soldering	24	A	None
KET2 0101	Electronics Math	100	A	None
KET2 0102	Technical Writing	18	A	None
KET2 0103	DC Fundamentals & Circuit	120	A	Electronics Math, KET2-0101 or equivalent.
KET2 0104	AC Fundamentals & Circuits	120	A	DC Fundamentals & Circuits, KET2-0103 or equivalent.
KET2 0105	Analog Devices & Circuits	160	A	AC Fundamentals & Circuits, KET2-0104 or equivalent.
KET2 0106	Digital Circuits & Apps.	160	A	Analog Devices & Circuits, KET2-0105 or equivalent
KET2 0107	Technician Certification	32	A	None
KET2 0108	Test & Measurement Instrumentation	60	A	KET2-0106 or equivalent.
KAIT 0100	National Electrical Code	12	A	None
KAIT 0105	Automated Systems	96	A	KET2 0106
KAIT 0110	Instrumentation and Control Documentation	12	A	None
KAIT 0115	Measurement and Control	72	A	KET2 0106
KAIT 0120	Electric Motors and Control Systems	60	A	KAIT-0115
KAIT 0125	Fluid Power Systems	60	A	KAIT-0120
KAIT 0130	Maintenance of Instruments & Systems	60	A	KAIT-0125
KAIT 0135	Troubleshooting Automated Systems	48	A	KAIT-0130
KAIT 0140	Industrial Data Communications	36	A	KAIT-0135
KET2 0250	Programmable Logic Controllers	96	A	None
KAIT 0145	ISA CST Exam Prep (CST)	16	A	None

Advising Notes:
Stand-alone or specific needs - All courses need to have their prerequisites confirmed by the Electronics department. Students must e-mail transcripts, etc., to dept. before registration/scheduling is approved.

Additional Program Notes:

ELECTROMECHANICAL ASSEMBLY TECHNICIAN – CERTIFICATE OF PROFICIENCY[CTE] 454 Clock Hours

Program Division: Applied Technology
Program Location: Westpointe Center, Room 216. (Main Classroom)
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/electronics/index.aspx
Academic Advisor: Lynda Gray, ATC 219, 801-957-5127

Program Faculty:
Associate Professors – Gilbert Ulibarri
Assistant Professors – Richard Hemingway
Adjunct Instructor – Michael Barela

Program Description:
The program is designed to provide a very broad and complete short term intensive training for individuals desiring to enter into the multiple occupations that make up the Advanced Manufacturing sector. Similar to the Electronics Assembly Technician program it continues to build in supporting the required training and skills needed in manufacturing. The program includes Basic Computer Literacy course, which will ensure basic computer usage for daily work requirements, National Electrical Code that will cover Electrical safety and terminology, getting acquainted with the NEC standard while learning such terms as, ampacity, bonding, branch circuits, conductors, energized, ground, the intent is to relate the standard to Electromechanical systems and assemblies and safety for the person and equipment. An in depth coverage of soldering theory, materials and tools, begin with the Universal Assembly & Repair course, to include projects such as wiring, terminals, component identification, and thru-hole soldering procedures and techniques. The Surface Mount course continues with the installation and removal of surface mount components, both soldering courses are project based that set the workman ship standard to IPC Class 3 levels. This program includes 3 IPC certification courses, the IPC-A-610E, IPC-J-STD-001E, and the IPC/WHMA-A-620B, together these cover the majority of assemblies and criteria that is required by most companies involved in the manufacturer of Electronics. This program also includes an Electromechanical Project, which will include safety requirements, chemical handling, chemical standards, and understanding chemical disposal according to MSDS standards, blue print reading, assembly drawings, and the requirement for assembly to conform to these drawings, installation of hardware according to applicable assembly drawings, use of torque equipment according to assembly drawings, industry or company specifications or requirements. In addition, Basic Math and Measurements will be covered and applied, the proper use of the following tools: microscope, scales/rulers (metric, British, decimal, fractions), calipers (analog and digital), ohmmeter/millimeter, crimpers, and an understanding of basic hand tools. The final course in the program sequence will provide an introduction and overview to manufacturing , covering materials, dimensions, tolerances, manufacturing processes, powder metallurgy, sheet metal working, brazing, soldering and adhesive bonding, mechanical assembly, production systems, process planning, cellular manufacturing, lean production, and product quality. This complete training provides a solid foundation to support the many occupations that Electrical and Electronic Equipment Assemblers are classified under, this program will support industries that are involved almost every area of Advanced Manufacturing. At the completion of this program the student should be prepared to enter into the work force and ready to be productive.

Career Opportunities:
The following are titles associated with this career field: Electrical and Electronic Equipment Assemblers, Electromechanical Equipment Assemblers, Electro-Mechanical Technicians**,** Assembler, Assembly Worker, Production Worker, Electronic Assembler, Factory Assembler, Factory Worker, Armature Assembler, Breaker Units Assembler, Final Motor Assembler, Gear Assembler. The manufacturing sectors that build electromechanical electronics systems, assemblies and devices are many and include defense, medical, and avionics.

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3024.00 Electromechanical Technicians
- 51-2023.00 Electromechanical Equipment Assemblers
- 17-3024.00 - Electro-Mechanical Technicians

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 7.0

Ability to distinguish differences in color

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/electronics/electromechanical.aspx

Estimated Time to Completion:
454 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy 1 – Acquire Substantive Knowledge
The student will be able to demonstrate proficiency in the knowledge of Basic Computer Literacy concepts, such as How the Computer Works, how to operate it, external device usage, Windows 7 Basics, Start a Program, Understanding Dialog Box Options, settings, Personalizing Windows 7, Create a New User Account, Managing Files and Folders, Securing Windows 7, Working with Software, Wireless Computing, Using Multimedia, connecting to the Internet. Communicating Online, and Performing Computer Maintenance.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in the knowledge of the national electrical code, the structure and logic of the NEC, including the index, annexes, and Article 90.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in the knowledge of the IPC-A-610E workmanship standard to electronics assemblies.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of Universal Thru-Hole Assembly & Repair Technology to electronic assemblies, and ability to perform applicable techniques and procedures.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of Surface Mount Technology to electronic assemblies and ability to perform applicable techniques and procedures.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of IPC-J-STD-001E standard and workmanship criteria, and application to assemblies.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of IPC/WHMA-A-620B cabling and harnessing quality standards and application to assemblies.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of Electromechanical Projects, demonstrate proficiency in mechanical assembly, blue prints, schematic diagrams, soldering, cabling, safety, cleaning, hardware torque requirements and handling.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of manufacturing processes, and the different types of processes and materials used.	1,2,3,4,5,6,7

REQUIRED COURSES: (454 Clock Hours)

COURSE		Clock Hours	SEM	PREREQUISITE
KET2 0111	Basic Computer Literacy	36	A	None
KAIT 0100	National Electrical Code	12	A	None
KELA 0172	IPC-A-610E Cert Specialist	36	A	None
KELA 0151	Univ. Assembly & Repair	72	A	IPCA610E or equivalent Industry Experience.
KELA 0161	Surface Mount Technology	72	A	IPCA 610E, and KELA0151 or equivalent Industry Experience.
KEMA 0167	IPC-J-STD-001E Cert	36	A	IPC-J-STD-001, or equivalent Industry Experience(KELA 151/161)
KEMA 0169	IPC/WHMA-A-620B Cert	60	A	None
KEMA 0180	Electromechanical Project	70	A	IPC/WHMA-A-620 Certification and equivalent Industry Experience(KELA 151/161)
KEMA 0172	Introduction to Manufacturing Processes	60	A	None

Advising Notes: Stand-alone or specific needs - All courses need to have their prerequisites confirmed by the Electronics department. Students must e-mail transcripts, etc., to dept. before registration/scheduling is approved.

Additional Program Notes:

ELECTRONICS ASSEMBLY TECHNICIAN – CERTIFICATE OF PROFICIENCY[CTE] 228 Clock Hours

Program Division: Applied Technology
Program Location: Westpointe Center, Room 216. (Main Classroom)
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/electronics/index.aspx
Academic Advisor: Lynda Gray, ATC 219, 801-957-5127

Program Faculty:
Associate Professors – Gilbert Ulibarri
Assistant Professors – Richard Hemingway
Adjunct Instructor – Michael Barela

Program Description:
The program is designed to provide short term intensive training for individuals desiring to enter into the multiple occupations that make up the Advanced Manufacturing sector. This course is mainly directed towards the Electronics Assembly manufacturing occupations, such as Electrical and Electronic Equipment Assemblers, Electromechanical Equipment Assemblers and Electro-Mechanical Technicians. These occupations may be involved with the assembly or modification of electrical or electronic equipment, such as guidance systems, aviation controls, medical devices, automotive instrumentation, circuit boards for various applications and equipment. The Assembler may be involved in the inspection, installation of assemblies, installation of components, subassemblies, wiring, or assembly casings, using rivets, bolts, soldering, adjust, repair, or replace electrical or electronic component parts to correct defects and to ensure conformance to specifications, interpretation of schematic drawings, diagrams, blueprints, specifications, work orders, or reports to determine materials requirements or assembly instructions. The program includes Basic Computer Literacy course, which will ensure basic computer usage for daily work requirements, National Electrical Code that will cover Electrical safety and terminology, getting acquainted with the NEC standard while learning such terms as, ampacity, bonding, branch circuits, conductors, energized, ground, the intent is to relate the standard to Electromechanical systems and assemblies and safety for the person and equipment. The IPC A-610E course will introduce the individual to the industry standard for Electronic Assemblies, and the attainment of the IPC Certified IPC Specialist, providing proof of knowledge and application of industry criteria workmanship standards. An in depth coverage of soldering theory, materials and tools, begin with the Universal Assembly & Repair course, to include projects such as wiring, splicing, terminals, component identification, and thru-hole soldering procedures and techniques. The Surface Mount course continues with the installation and removal of surface mount components, both soldering courses are project based that set the workman ship standard to IPC Class 3 levels. At the completion of this program the student should be prepared to enter into the work force and ready to be productive.

Career Opportunities:
The following are titles associated with this career field: Assembler, Assembly Worker, Production Worker, Electronic Assembler, Factory Assembler, Factory Worker, Armature Assembler, Breaker Units Assembler, Final Motor Assembler, Gear Assembler. The manufacturing sectors that build electromechanical electronics systems, assemblies and devices are many and include defense, medical, and avionics.

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 51-2022.00 - Electrical and Electronic Equipment Assemblers
- 51-2023.00 - Electromechanical Equipment Assemblers
- 17-3024.00 - Electro-Mechanical Technicians

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 7.0

Ability to distinguish differences in color

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/electronics/electronicsassembly.aspx

Estimated Time to Completion:
228 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy 1 – Acquire Substantive Knowledge
The student will be able to demonstrate proficiency in the knowledge of Basic Computer Literacy concepts, such as How the Computer Works, how to operate it, external device usage, Windows 7 Basics, Start a Program, Understanding Dialog Box Options, settings, Personalizing Windows 7, Create a New User Account, Managing Files and Folders, Securing Windows 7, Working with Software, Wireless Computing, Using Multimedia, connecting to the Internet. Communicating Online, and Performing Computer Maintenance.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in the knowledge of the national electrical code, the structure and logic of the NEC, including the index, annexes, and Article 90.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in the knowledge of the IPC-A-610E workmanship standard for Electronics Assemblies.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of Universal Thru-Hole Assembly & Repair Technology to electronic assemblies, and ability to perform applicable techniques and procedures.	1,2,3,4,5,6,7
The student will be able to demonstrate proficiency in knowledge of Surface Mount Technology to electronic assemblies and ability to perform applicable techniques and procedures.	1,2,3,4,5,6,7

REQUIRED COURSES: (228 Clock Hours)

COURSE		Clock Hous	SEM	PREREQUISITE
KET2 0111	Basic Computer Literacy	36	A	None
KAIT 0100	National Electrical Code	12	A	None
KELA 0172	IPC-A-610E Cert Specialist	36	A	None
KELA 0151	Univ. Assembly & Repair	72	A	IPCA610E or equivalent Industry Experience.
KELA 0161	Surface Mount Technology	72	A	IPCA 610E, and KELA0151 or equivalent Industry Experience.

Advising Notes:
Stand-alone or specific needs - All courses need to have their prerequisites confirmed by the Electronics department. Students must e-mail transcripts, etc., to dept. before registration/scheduling is approved.

Additional Program Notes:

Electronics Communications Technician (KECT) - CERTIFICATE OF COMPLETION[CTE] 1310 Clock Hours

Program Division: Applied Technology
Program Location: Westpointe Center, Room 216. (Main Classroom)
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/electronics/index.aspx
Academic Advisor: Lynda Gray, ATC 219, 801-957-5127

Program Faculty:
Associate Professors – Gilbert Ulibarri
Assistant Professors – Richard Hemingway
Adjunct Instructor – Michael Barela

Program Description:
This program was specifically designed for companies such as the power company and their need for RF Communications Technicians. The use of technology and communications networks is wide-spread, from cellular to satellite television. Many state agencies and utility companies have a communications system that may be land and wireless, to support their operations. This program will prepare you to enter many of these occupations, it basically has two cores, one for Electronics to give you the solid foundation that all technicians require, and the core and foundation for working in the communications field. The program as a whole provides a balanced blend of theory and hands-on activities; project-based learning is emphasized, coverage of the basic theory, circuits, and fundamentals of AC/DC, Analog devices/circuits and Digital electronics. In addition, the students will learn how to use various instrumentation for testing, troubleshooting/repair of electronic circuits and systems. This course also covers electronic components, how they function, data-sheets, schematic symbols/diagrams, and device testing. All courses include experiments, circuit bread-board construction, and structured lesson plans. The program also includes the Electronics Technician International Certified Electronics Technician course (CET), which is designed to review and prepare for the examination, which will represent a student's knowledge and ability. Some of the high-lights of the core communications are Signal Processing, RF Communications, Lines, Antennas and Towers, Radar and Microwave systems. In addition a Fiber Optics course that leads to ETA-I Fiber Optics Installer certification, as well as the TCM certification, which covers Telecommunications Systems. Finally the program prepares the individual for the FCC General Radio license examination - GROL. These combined skills sets will allow the student to be prepared with the knowledge and competencies to enter into many of the related and exciting occupations in the field of Communications.

Career Opportunities:
The related communication occupations include sample of reported job titles: Telecommunications Equipment Installers and Repairers, Telecommunications Line Installers and Repairers, Radio, Cellular, and Tower Equipment Installers and Repairers, Radio Mechanics, Electrical and Electronics Repairers, Commercial and Industrial Equipment, Central Office Technician, Install / Repair Technician, Service Technician, Installer, Telecommunications Technician, Customer Service Technician (CST), Combination Technician, Field Technician, Communications Technician, Outside Plant Technician, Central Office Technician, Install / Repair Technician, Service Technician, Installer, Telecommunications Technician, Customer Service Technician (CST), Combination Technician, Field Technician, Communications Technician, and Outside Plant Technician.

These occupations will be involved in the repair and installation of mobile or stationary radio transmitting, broadcasting, and receiving equipment, and two-way radio communications systems used in cellular telecommunications, mobile broadband, ship-to-shore, aircraft-to-ground communications, and radio equipment in service and emergency vehicles. May test and analyze network coverage. As well as assemble or erect communications towers, using construction or rigging equipment, check antenna positioning to ensure specified azimuths or mechanical tilts and adjust as necessary. The career fields may also require that the individual repair circuits, wiring, and soldering, using soldering irons and hand tools to install parts and adjust connections, test equipment functions such as signal strength and quality, transmission capacity, interference, and signal delay, using equipment such as oscilloscopes, circuit analyzers, frequency meters, and watt-meters. Examine malfunctioning radio equipment to locate defects such as loose connections, broken wires, or burned-out components, using schematic diagrams and test equipment, test emergency transmitters to ensure their readiness for immediate use. Many Technicians will perform scheduled preventive maintenance tasks, such as checking, cleaning, or repairing equipment, to detect and prevent problems.

As you can see the task and skills can vary and are very involved and different, from service or repair of telephones, cable television, Internet, and other communications equipment on customers' property, one may install communications equipment or communications wiring in buildings.

There are many industry sector areas, such as service, manufacturing, and research. The titles vary, and usually reflect the specifics occupation and business. Since these have a similar skill set, it is easy to move into new opportunities. The reality communications is a very large and interesting occupation area, with many opportunities. A technician with a strong background in electronics is a very valuable commodity in today's workplace and will be in even greater demand in the future.

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 49-2022.00 - Telecommunications Equipment Installers and Repairers, Except Line Installers
- 49-9052.00 - Telecommunications Line Installers and Repairers
- 49-2021.00 - Radio, Cellular, and Tower Equipment Installers and Repairers
- 49-2021.01 - Radio Mechanics
- 49-2094.00 - Electrical and Electronics Repairers, Commercial and Industrial Equipment
- 49-2093.00 - Electrical Installers and Repairers

Transfer/Articulation Information:
Articulation to an AAS is in process with the School of Science, Mathematics, and Eng.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 10.00

Ability to distinguish differences in color
Basic Computer Literacy required. Please see the department or department website for entry-level requirements.

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/electronics/index.aspx

Estimated Time to Completion:
1310 Clock Hours

Specialized Accreditation: The KECT 0151 Fiber Optics course is an approved training and certification course through Electronics Technician Association International.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
The student will be able to demonstrate the ability to perform basic thru-hole and surface mount soldering for electronic assemblies.	1,2,3,4,6,7
The student will be able to apply Electronics Math concepts, Mathematics and Formulas, basic math, metric notation, algebra, and right-triangle trigonometry, statics, and utilize scientific calculators.	1,2,3,4,6,7
The student will be able to utilize Technical Writing concepts, applying knowledge to demonstration and usage of lab reports, proposals, communications, and engineering lab project reports and related documentation.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in DC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, DC power supplies usage, DMM and analysis.	1,2,3,4,6,7

The student will be able to demonstrate proficiency in AC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, usage of Oscilloscopes/Function Generator/ Frequency Counter/DMM and analysis.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in Analog Devices & concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, Data sheets/pin-outs/electrical specifications, Active device handling precautions, and analysis.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in Digital Circuits & Application Fundamentals & concepts, electrical theory, calculations, circuit and component characteristics, circuit simplification, Boolean Algebra, circuit construction, test/measurements, schematics, troubleshooting, logic analyzers/logic probe usage, and analysis of timing diagrams.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in Electronics knowledge at an Associate Technician level, by obtaining CET certification.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in the knowledge of Test & Measurement Instrumentation concepts, competencies, utilize all features and functions of Oscilloscopes, Waveform Generators, DMM, Logic analyzers, and Spectrum Analyzers, as well as what is current in the Test & Measurement Industry.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in the fundamentals of signal processing, to include modern Digital Signal Processing, systems, principles of electronic signals, both analog and digital. AM/FM circuits, modulation and multiplexing techniques, acquisition, reconstruction, sampling and quantization, Phase Locked Loop circuits, and hands-on projects of processing circuits.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in the principles of Electronic Communication Systems, systems, communications technologies, wave propagation, HF fundamentals, AM/FM circuits, AM/CB/SSB transceivers, Multiplexing (DEMUX), Data Transmission Techniques, Transmission Lines, Smith Chart usage, Communication Tests and Measurements, and Electromagnetic Interference Testing.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in basic antennas concepts, antenna theory, practical designs, antenna impedance, transmission Lines, antenna measurements, antenna modeling, proper procedures working with towers, inspections, performing maintenance, cables, connections, and safety measures for antennas and towers.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in Microwave fundamentals, circuits, systems, solid state microwave passive and active components, basic principles and operation of microwave systems, Radar, use of Smith chart to determine transmission line parameters/test equipment operation.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in Fiber Optics knowledge by performing various hands-on projects, splicing, installing connectors, and OTDR testing. Obtaining Fiber Optics Installer Certification (FOI) is another major demonstration of proficiency.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in Telecommunications and Data Communications Technologies that support modern communication systems, Analog & Digital Telephony, protocols, optical wiring, wireless telephony, safety, transmission services, cabling, test equipment, distribution methods, Interfacing, Internet, networks and troubleshooting. Obtainment of TCM certification is further proficiency demonstration of knowledge.	1,2,3,4,6,7
The student will be able to demonstrate proficiency in principles of AM/FM/ phase/modulation/pulse modulation/tuned RF/power amplifiers, transmission lines/antennas/transmitter-receiver fundamentals/maritime-aviation radio law. Further proficiency is demonstrated by obtainment of	1,2,3,4,6,7

General Radiotelephone Operators License (GROL) FCC license.	

REQUIRED COURSES: Total Program 1310 Clock Hours

COURSE		Hrs	SEM	PREREQUISITE
KELA 0190	Assembly & Soldering	24	A	None
KET2 0101	Electronics Math	100	A	None
KET2 0102	Technical Writing	18	A	None
KET2 0103	DC Fundamentals & Circuits	120	A	Electronics Math, KET2-0101 or equivalent.
KET2 0104	AC Fundamentals & Circuits	120	A	DC Fundamentals & Circuits, KET2-0103 or equivalent.
KET2 0105	Analog Devices & Circuits	160	A	AC Fundamentals & Circuits, KET2-0104 or equivalent.
KET2 0106	Digital Circuits & Apps.	160	A	Analog Devices & Circuits, KET2-0105 or equivalent
KET2 0107	Technician Certification	32	A	None
KET2 0108	Test & Measurement Instrumentation	60	A	KET2-0106 or equivalent.
KECT 0110	Signal Processing	60	A	KET2-0106
KECT 0111	Electronic Communications Systems	120	A	KECT-0110.
KECT 0112	Antennas, Transmission Lines & Towers	60	A	KECT-0111.
KECT 0141	Microwaves and Radar Systems	72	A	KECT0-112.
KECT 0151	Fiber Optics Installer Certification	96	A	None
KECT 0113	Telecommunications and Data Communications -TCM Certification	72	A	KECT-0141
KECT 0114	FCC License Preparation – GROL	36	A	KECT 0113.

Advising Notes: Stand-alone or specific needs - All courses need to have their prerequisites confirmed by the Electronics department. Students must e-mail transcripts, etc., to dept. before registration/scheduling is approved.

Additional Program Notes:

ELECTRONICS ENGINEERING TECHNICIAN (KEET) –CERTIFICATE OF COMPLETION[CTE] 1226 Clock Hours

Program Division: Applied Technology
Program Location: Westpointe Center, Room 216. (Main Classroom)
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/electronics/index.aspx
Academic Advisor: Lynda Gray, ATC 219, 801-957-5127

Program Faculty:
Associate Professors – Gilbert Ulibarri
Assistant Professors – Richard Hemingway
Adjunct Instructor – Michael Barela

Program Description:
This program is designed to provide specific courses and training for Technician occupations that work closely with Engineers. Electronics Engineering Technicians in most cases are part of a support team in Research & Development, and Design Manufacturing, designing and modifying circuits and equipment/systems. This type of Technician needs to have a solid foundation in the basic fundamentals, thus this program provides a solid foundation of the basic theory, laws, circuits, and fundamentals of AC/DC, Analog devices/circuits, and Digital electronics. The program includes a basic soldering course, to support the assembly and prototyping of new designs, it is a balanced blend of theory and hands-on activities, project-based learning is emphasized. The instrumentation course will address full and proper usage of Oscilloscopes, Function Generators, Spectrum analyzers, and logic analyzers, applied to testing, troubleshooting/repair of electronic circuits and systems. This course also covers electronic components, how they function, data-sheets, schematic symbols/diagrams, and device testing. All courses include experiments, circuit bread-board construction, and structured lesson plans. The program also includes the Electronics Technician International Certified Electronics Technician course (CET), which is designed to review and prepare for the examination, which will represent a student's knowledge and ability. In addition the LabVIEW course is a first step to LabVIEW certification tracks, the Associate level. Additional courses include; Microprocessors, Embedded Controllers, and finally Electronics Circuits, Design, simulation, and PCB layout design and fabrication. The program outcomes are designed to provide the Students the skills and competencies required of an Electronic Engineering Technician to be involved in the design, testing, and fabrication of new circuits and equipment.

Career Opportunities:
There are many industry sector areas, such as service, manufacturing, and research. The titles vary, and usually reflect the specifics occupation and business. Since these have a similar skill set, it is easy to move into new opportunities. Such career opportunities are an, Engineering Technician, Electronics Engineering Technician, Electronics Technician, Test Technician, Technician, Refurbish Technician (Refurb Tech), Electrical Technician, Electronics Test Technician, Engineering Aide, and Failure Analysis Technician (FA Technician). Careers in electronics are not limited to the above examples. Other career options include: aerospace technicians, quality control technician, audio/video technician, office equipment technician, point-of-sale technician, telecommunications field technician, technical support, transportation industry technician, video game technician, computer repair technician, engineering technician, and radio/television broadcast technician. Salaries in these fields can range from $24,000 to $60,000 or more per year, based on previous experience, competency achievement, and attendance records.
Careers available to graduates of a technician program in electronics are plentiful. The Occupational Outlook Handbook predicts moderate to strong growth in the field of electronics as a whole. The biomedical and defense industries require a qualified engineering technician to support the many engineers that design, develop and produce electronic products.
A technician with a strong background in electronics is a very valuable commodity in today's workplace and will be in even greater demand in the future.

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3023.01 - Electronics Engineering Technicians
- 17-3024.00 - Electro-Mechanical Technician
- 17-3029.04 - Electronics Engineering Technologists

Transfer/Articulation Information:
Articulation to an AAS is in process with the School of Science, Mathematics, and Eng.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 10.00

Basic Computer Literacy required. Please see the department or department website for entry-level requirements.

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/electronics/electronicsengineering.aspxw

Estimated Time to Completion:
1226 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
The student will be able to demonstrate the ability to perform basic thru-hole and surface mount soldering for electronic assemblies.	1,2,3,4,6,7
The student will be able to apply Electronics Math concepts, Mathematics and Formulas, basic math, metric notation, algebra, and right-triangle trigonometry, statics, and utilize scientific calculators.	1,2,3,4,6,7
The student will be able to utilize Technical Writing concepts, applying knowledge to demonstration and usage of lab reports, proposals, communications, and engineering lab project reports and related documentation.	1,2,3,4,6,7
The student will be able to demonstrate DC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, DC power supplies usage, DMM and analysis.	1,2,3,4,6,7
The student will be able to demonstrate AC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, usage of Oscilloscopes/Function Generator/ Frequency Counter/DMM and analysis.	1,2,3,4,6,7
The student will be able to demonstrate Analog Devices & concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, Data sheets/pin-outs/electrical specifications, Active device handling precautions, and analysis.	1,2,3,4,6,7
The student will be able to demonstrate Digital Circuits & Application Fundamentals & concepts, electrical theory, calculations, circuit and component characteristics, circuit simplification, Boolean Algebra, circuit construction, test/measurements, schematics, troubleshooting, logic analyzers/logic probe usage, and analysis of timing diagrams.	1,2,3,4,6,7
The student will be able to demonstrate knowledge at a Associate Technician level, by obtaining CET certification.	1,2,3,4,6,7
The student will be able to demonstrate a working knowledge of Test & Measurement Instrumentation concepts, competencies, utilize all features and functions of Oscilloscopes, Waveform Generators, DMM, Logic analyzers, and Spectrum Analyzers, as well as what is current in the Test & Measurement Industry.	1,2,3,4,6,7

The student will be able to demonstrate usage of LabVIEW to create and utilize the application features for data acquisition, analysis, display applications, charts, graphs and buttons. Use the programming structures and data types, Apply basic design templates and architectures for applications, use various editing and debugging techniques, Create their own Vis, and obtain LabVIEW Associate Developer Certification.	1,2,3,4,6,7
The student will be able to demonstrate Microprocessor fundamentals, hardware and software, assembly language programming, interface hardware, and how to load, edit and debug program code.	1,2,3,4,6,7
The student will be able to demonstrate Embedded Controllers fundamentals, Including, hardware design, programming of controllers, interfacing and loading, editing, and debugging of program code.	1,2,3,4,6,7
The student will be able to demonstrate practical usage and application of NI Design Suite Circuit Schematic capture and simulation software (Multisim).	1,2,3,4,6,7
The student will be able to demonstrate practical usage and application of NI Design Suite Ultiboard for printed circuit board design and fabrication (PCB). Proficiency with PCB hardware and software is also required.	1,2,3,4,6,7

REQUIRED COURSES: (1226 Clock Hours)

COURSE		Hrs	SEM	PREREQUISITE
KELA 0190	Assembly & Soldering	24	A	None
KET2 0101	Electronics Math	100	A	None
KET2 0102	Technical Writing	18	A	None
KET2 0103	DC Fundamentals & Circuits	120	A	Electronics Math, KET2-0101 or equivalent.
KET2 0104	AC Fundamentals & Circuits	120	A	DC Fundamentals & Circuits, KET2-0103 or equivalent.
KET2 0105	Analog Devices & Circuits	160	A	AC Fundamentals & Circuits, KET2-0104 or equivalent.
KET2 0106	Digital Circuits & Apps.	160	A	Analog Devices & Circuits, KET2-0105 or equivalent
KET2 0107	Technician Certification	32	A	None
KET2 0108	Test & Measurement Instrumentation	60	A	KET2-0106 or equivalent.
KEET 0100	LabVIEW Basics	96		Experience with Microsoft Windows and writing algorithms in the form of flowcharts or block diagrams
KET2 0171	Microprocessor	96	A	Completed Electronics Core or equivalent.
KET2 0172	Embedded Controllers	96	A	Completed Electronics Core or equivalent.
KEET 0400	Schematic Capture and Simulation	72	A	Completed Electronics Core or equivalent.
KEET 0500	Circuit Board Design	72	A	Completed Electronics Core or equivalent, and KEET-0400.

Advising Notes:
Stand-alone or specific needs - All courses need to have their prerequisites confirmed by the Electronics department. Students must e-mail transcripts, etc., to dept. before registration/scheduling is approved.

Additional Program Notes:

ELECTRONICS TECHNICIAN – (KET2) CERTIFICATE OF COMPLETION[CTE] 1142 Clock Hours

Program Division: Applied Technology
Program Location: Westpointe Center, Room 216. (Main Classroom)
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/electronics/index.aspx
Academic Advisor: Lynda Gray, ATC 219, 801-957-5127

Program Faculty:
Associate Professors – Gilbert Ulibarri
Assistant Professors – Richard Hemingway
Adjunct Instructor – Michael Barela

Program Description:
This program provides a solid foundation for students desiring to enter the Electronics Technician fields, the program is designed to be a balanced blend of theory and hands-on activities, project-based learning is emphasized. The program covers the basic theory, laws, circuits, and fundamentals of AC/DC, Analog devices/circuits, and Digital electronics. Students learn modern assembly and repair soldering techniques such as surface mount and thru-hole technology, and apply workmanship standards from IPC for class 3 products. In addition, the students will learn how to use various instrumentation for testing, troubleshooting/repair of electronic circuits and systems. This course also covers electronic components, how they function, data-sheets, schematic symbols/diagrams, and device testing. All courses include experiments, circuit bread-board construction, and structured lesson plans. The program also includes the Electronics Technician International Certified Electronics Technician course (CET), which is designed to review and prepare for the examination, which will represent a student's knowledge and ability. The program has a solid Electronics core and allows the selection of several electives for a direction or interest in a specific field of the industry. The program outcomes are designed to provide the Students the skills and competencies required of an Electronic Technician to understand, service, maintain, troubleshoot, and repair modern electronic circuits and systems.

Career Opportunities:
There are many industry sector areas, such as service, manufacturing, and research. The titles vary, and usually reflect the specifics occupation and business. Since these have a similar skill set, it is easy to move into new opportunities. Such career opportunities are an Electronics Technician, Engineering Technician, Electronics Engineering Technician, Test Technician, Technician, Refurbish Technician (Refurb Tech), Electrical Technician, Electronics Test Technician, Engineering Aide, and Failure Analysis Technician (FA Technician).

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3023.01 - Electronics Engineering Technicians
- 17-3024.00 - Electro-Mechanical Technician
- 17-3029.04 - Electronics Engineering Technologists
- 49-2011.00 - Computer, Automated Teller, and Office Machine Repairer
- 49-9062.00 - Medical Equipment Repairer
- 49-2093.00 - Electrical and Electronics Installers and Repairers, Transportation Equipment
- 49-2094.00 - Electrical and Electronics Repairers, Commercial and Industrial Equipment
- 49-2097.00 - Electronic Home Entertainment Equipment Installers and Repairers

The successful electronics student gains numerous transferable skills applicable to a myriad of careers. For example, today's security/burglar/fire alarm systems are very sophisticated and require electronics technicians for installation, maintenance, and repair. Most systems are computer-controlled and technicians use computer skills in addition to wiring, reading blueprints, and utilizing a variety of hand tools. Often these systems use closed-circuit television, heat, noise, or movement sensors, and access control (card key) doors or gates, all of which a well-educated technician will be able to handle.

Security technicians are not the only expanding careers available to graduates. Many types of medical equipment are built and serviced by electronics technicians. They include ultrasound machines (used by doctors to get computerized images of internal organs), kidney dialysis machines, heart monitors, M.R.I.s, Cat-scans, Pet Scans, X-ray machines, and even diagnostic machines

used by optometrists. Most technicians specialize on one or two types of machines. Work environments are either in hospitals and clinics or manufacturing facilities.
Many graduates can also qualify to be sales people in the electronics industry. Some electronics sales people work in retail stores but most work at companies that sell electronics components to manufacturers or computer/office machine systems to businesses. Technical training is essential for these jobs since sales representatives need to know how the components and systems operate. Careers in electronics are not limited to the above examples. Other career options include: aerospace technicians, quality control technician, audio/video technician, office equipment technician, point-of-sale technician, telecommunications field technician, technical support, transportation industry technician, video game technician, computer repair technician, engineering technician, and radio/television broadcast technician. Salaries in these fields can range from $24,000 to $60,000 or more per year, based on previous experience, competency achievement, and attendance records.

Careers available to graduates of a technician program in electronics are plentiful. The Occupational Outlook Handbook predicts moderate growth in the field of electronics as a whole. The biomedical and computer repair field are predicted to have above average growth over the next several years.

A technician with a strong background in electronics is a very valuable commodity in today's workplace and will be in even greater demand in the future.

Transfer/Articulation Information: Articulation to an AAS is in process with the School of Science, Mathematics, and Eng.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 10.00

Ability to distinguish differences in color
Basic Computer Literacy required. Please see the department or department website for entry-level requirements.

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/electronics/electronicstechnology.aspx

Estimated Time to Completion:
1142 Clock Hours

Specialized Accreditation:
The KECT 0151 Fiber Optics Installer Certification course, an elective for this program is an approved training and certification course thru Electronics Technician Association International.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
The student will be able to utilize and apply the IPC-A-610E workmanship standard to electronics assemblies.	1,2,3,4,6,7
The student will be able to demonstrate the ability to perform universal thru-hole assembly & repair technology to electronic assemblies.	1,2,3,4,6,7
The student will be able to demonstrate the ability to complete surface mount technology to electronic assemblies.	1,2,3,4,6,7
The student will be able to apply Electronics Math concepts, Mathematics and Formulas, basic math, metric notation, algebra, and right-triangle trigonometry, statics, and utilize scientific calculators.	1,2,3,4,6,7
The student will be able to utilize Technical Writing concepts, applying knowledge to demonstration and usage of lab reports, proposals, communications, and engineering lab project reports and related documentation.	1,2,3,4,6,7
The student will be able to demonstrate DC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, DC power supplies usage, DMM and analysis.	1,2,3,4,6,7

The student will be able to demonstrate AC Fundamentals & Circuits concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, usage of Oscilloscopes/Function Generator/ Frequency Counter/DMM and analysis.	1,2,3,4,6,7
The student will be able to demonstrate Analog Devices & concepts, electrical theory, calculations, circuit and component characteristics, circuit construction, test/measurements, schematics, troubleshooting, Data sheets/pin-outs/electrical specifications, Active device handling precautions, and analysis.	1,2,3,4,6,7
The student will be able to demonstrate Digital Circuits & Application Fundamentals & concepts, electrical theory, calculations, circuit and component characteristics, circuit simplification, Boolean Algebra, circuit construction, test/measurements, schematics, troubleshooting, logic analyzers/logic probe usage, and analysis of timing diagrams.	1,2,3,4,6,7
The student will be able to demonstrate knowledge at an Associate Technician level, by obtaining CET certification.	1,2,3,4,6,7
The student will be able to demonstrate a working knowledge of Test & Measurement Instrumentation concepts, competencies, utilize all features and functions of Oscilloscopes, Waveform Generators, DMM, Logic analyzers, and Spectrum Analyzers, as well as what is current in the Test & Measurement Industry.	1,2,3,4,6,7
Depending on the selected Elective(s)	1,2,3,4,6,7
The student will be able to demonstrate Fiber Optics knowledge by performing various hands-on projects, splicing, installing connectors, and OTDR testing. Obtaining Fiber Optics Installer Certification (FOI) is another major demonstration of proficiency.	1,2,3,4,6,7
The student will be able to demonstrate Microprocessor fundamentals, hardware and software, assembly language programming, interface hardware, and how to load, edit and debug program code.	1,2,3,4,6,7
The student will be able to demonstrate Embedded Controllers fundamentals, Including, hardware design, programming of controllers, interfacing and loading, editing, and debugging of program code.	1,2,3,4,6,7
The student will be able to demonstrate troubleshooting concepts, principles, techniques, and procedures for troubleshooting electronics circuits and equipment. Demonstration of proper selection and usage of various test equipment and schematic/block diagram documentation.	1,2,3,4,6,7
The student will be able to demonstrate usage of LabVIEW to create and utilize the application features for data acquisition, analysis, display applications, charts, graphs and buttons. Use the programming structures and data types, Apply basic design templates and architectures for applications, use various editing and debugging techniques, Create their own Vis, and obtain LabVIEW Associate Developer Certification.	1,2,3,4,6,7
The student will be able to demonstrate knowledge and application of RF Communications Principles, AM/FM, phase, pulse modulation, transmission lines/antennae, satellite transmission/reception, receivers/transmitters, analog/digital television, telephony, data, and GPS.	1,2,3,4,6,7
The student will be able to demonstrate knowledge and usage of Programmable Logic Controllers, aspects of programming, installation, maintaining procedures and hardware components. Development of wiring diagrams, Ladder Logic Programs, Programming of Timers, Counters, Data Manipulation, Sequencer and Shift Register Instructions. Troubleshooting of process control, Network Systems, SCADA and usage of the CLX Controllers.	1,2,3,4,6,7
2 - Electives Combined for 100 Hours. IPC options. The student will be able to demonstrate a knowledge of IPC J-STD 001E and IPC/WHMA-A-620 by obtaining CIS Certification.	1,2,3,4,6,7
The student will be able to demonstrate and acquire specialized knowledge	1,2,3,4,6,7

related to a Cooperative Externship.	

REQUIRED COURSES: 950 Hours (Total Program 1142 Clock Hours)

COURSE		Hrs	SEM	PREREQUISITE
KELA 0172	IPC-A-610E Cert IPC Spec	36	A	None
KELA 0151	Univ. Assembly & Repair	72	A	IPCA610E or equivalent Industry Experience.
KELA 0161	Surface Mount Technology	72	A	IPCA 610E, and KELA0151 or equivalent Industry Experience.
KET2 0101	Electronics Math	100	A	None
KET2 0102	Technical Writing	18	A	None
KET2 0103	DC Fundamentals & Circuits	120	A	Electronics Math, KET2-0101 or equivalent.
KET2 0104	AC Fundamentals & Circuits	120	A	DC Fundamentals & Circuits, KET2-0103 or equivalent.
KET2 0105	Analog Devices & Circuits	160	A	AC Fundamentals & Circuits, KET2-0104 or equivalent.
KET2 0106	Digital Circuits & Apps.	160	A	Analog Devices & Circuits, KET2-0105 or equivalent
KET2 0107	Technician Certification	32	A	None
KET2 0108	Test & Measurement Instrumentation	60	A	KET2-0106, or equivalent.

ELECTIVE COURSES: 192 Hours (Electives: Choose Any 2 - min 96 hrs each FROM THE FOLLOWING)

COURSE		HRS	SEM	PREREQUISITE
KECT 0151	Fiber Optics Installer Certification	96	A	None
KET2 0171	Microprocessor	96	A	Completed Electronics Core or equivalent.
KET2 0172	Embedded Controllers	96	A	Completed Electronics Core or equivalent.
KET2 0173	Troubleshooting	96	A	Completed Electronics Core or equivalent.
KEET 0100	LabVIEW Basics	96	A	Experience with Microsoft Windows and writing algorithms in the form of flowcharts or block diagrams
KET2 0250 Combined IPC (96 hrs)	Prog. Logic Controllers	96	A	None
KEMA 0167 and	IPC J-STD 001E Cert. 36 Hrs. and	96	A	IPC-J-STD-001, or equivalent Industry Experience(KELA 151/161)
KEMA 0169	IPC/WHMA-A-620B Cert. 60 Hrs.			None
KET2 0220	Cooperative Externship	96	A	None

Advising Notes:
Stand-alone or specific needs - All courses need to have their prerequisites confirmed by the Electronics department. Students must e-mail transcripts, etc., to dept. before registration/scheduling is approved.

Additional Program Notes:

ENERGY MANAGEMENT
– ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 67 credits minimum

Program Division: Continuing Education
Program Location: Campus, Building, Office Miller Campus, MFEC 229
General Information: 801-957-7522
Program Information: 801-957-5404
Program Website: www.slcccontinuinged.com/energymanagement
Academic Advisor: Devan Church, SI 209, 801-957-4858

Program Faculty:
Professors –
Associate Professors –
Assistant Professors –
Instructors – Curtis Clark, Gaylen Atkinson, Enrique Mora, James Crockett, Eric Reynolds, Thaniel Bishop, Gary Robinson, Joseph Good, Tony Hiatt, Brent Ursenbach, Curtis Leetham, Brian Walsh

Program Description:
Energy Management is the efficient and effective use of energy to minimize costs and reduce future energy demand. The program focuses on identifying and implementing energy efficiency measures as well as leadership through sustainable practices. In addition, students will learn the fundamentals of energy and gain an understanding of the energy systems in residential and commercial buildings. Course subject groupings include HVAC Energy Analysis, Lighting Fundamentals and Applications, Energy Accounting and Investment Analysis, Energy Modeling and Control Strategies, and Solar Photovoltaic Systems. Program courses are taught by adjunct faculty who are industry experts in their respective fields.

This is a comprehensive program that provides students with practical hands-on experience. Students are required to participate in a capstone event that integrates theory and practice. This experience provides students with opportunities to develop skills, explore career options and network with professionals and employers in the industry. Students are required to complete a minimum of four internship or capstone project credit hours to earn the AAS degree in Energy Management.

The program is offered as an accelerated degree allowing students to complete the two-year program in as little as 18 months. Students will complete a series of seven, accelerated 10-week blocks of required program courses and full-semester courses as required. Training is designed to accommodate working professionals with most classes offered on Monday, Wednesday and Friday evenings on the Larry H. Miller Campus in Sandy, Utah. Many courses are offered in a hybrid (classroom + online) format for increased convenience.

Preparation Note: A new program cohort begins each August, approximately three weeks before the regular semester start date. Students are encouraged to contact the program coordinator early to assure a successful program start. A basic proficiency with spreadsheet applications is highly recommended before starting the program.

Career Opportunities: Energy Auditor, Weatherization Technician, Energy Efficiency Consultant, Energy Manager, Integrative Building Design Professional, High Performance Building Contractor, Renewable Energy Specialist, and more.

Transfer/Articulation Information: Bismarck State College

Program Entry Requirements: Completion of WRTG 0990 w/C grade or better or appropriate Accuplacer score within the last year; MATH 0990 w/C grade or better or appropriate Accuplacer score within the last year.

Total Program/Course Fees: $200

Estimated Cost for Students: $8700 including tuition, fees and books

Estimated Time to Completion: 18 – 24 months

Specialized Accreditation:

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Evaluate the energy use patterns for residential and commercial buildings and recommend energy efficiency and alternative energy solutions for high energy consuming buildings. 2. Understand the interaction between energy consuming building systems and make recommendations based on that understanding.	1 – Acquire Substantive Knowledge
1. Generate energy evaluation technical reports and make presentations for project implementation. 2. Use appropriate library and information resources to research professional issues and support lifelong learning. 3. Access library, computing and communications services and obtain information and data from regional, national and international networks.	2 – Communicate Effectively
1. Interpret the concepts of a problem-solving task and translate them into mathematics. 2. Collect and display data as lists, tables and plots using appropriate technology (e.g., graphing calculators, computer software).	3 – Develop Quantitative Literacy
1. Determine an appropriate scale for representing an object in a scale drawing. 2. Develop and evaluate inferences and predictions that are based on data.	4 – Think Critically and Creatively
1. Develop an awareness of the social, political, and economic factors dealing with energy management. 2. Work collaboratively in multidisciplinary teams.	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C or better or appropriate Accuplacer score
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C or better

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra (QS)	4	A	MATH 0990 and RDG 900 w/C or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM,IN)	3	A	
COMM 1020	Prin Public Speaking (CM,IN)	3	A	
CTEL 1020	Career Speech Skills (CM)	3	F, Sp	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 2110	Interpers Comm. (ID, HR)	3	F, Sp	None
CTEL 1010	1010 Ldrshp & Team Bldg (HR)	3	A	
LE 1220	HR Career Dev (SS, HR)	3	A	
MKTG 1960	Prof in Business (HR)	3	A	

DISTRIBUTION AREAS (3 CREDITS)

Choose an additional 3 credits from at least 1 of the following Distribution Areas.

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4	A	RDG 0900 w/C or better
Fine Arts (FA)	3-4	A	
Humanities (HU)	3	A	
Interdisciplinary (ID)	3	A	
Physical Science (PS)	3	A	
Social Science (SS)	3	A	

REQUIRED COURSES: (46 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 1100	Intro to Arch Drawing	3	*	
CSIS 1019	Spreadsheet Applications	2	*	
PHYS 1010	Elementary Physics (PS)	3	*	
EGMT 1010	Intro to Energy Mgmt	2	*	
EGMT 1110	HVAC Energy Analysis I	2	*	EGMT 1010
EGMT 1120	Comm Energy Analysis	3	*	EGMT 1210 and MATH 1010
EGMT 1130	Building Energy Sims	3	*	EGMT 1120
EGMT 1210	HVAC Energy Analysis II	2	*	EGMT 1110 and PHYS 1010
EGMT 1220	Comm A/C System Anal	2	*	EGMT 1210 and MATH 1010
EGMT 1230	Energy Control Strategies	3	*	EGMT 1220, 1240, 1700 or instructor approval
EGMT 1240	Energy Efficiency Methods	2	*	EGMT 1110 and PHYS 1010
EGMT 1310	Lighting Fundamentals	2	*	EGMT 1110, 1700 and PHYS 1010 or instructor approval
EGMT 1320	Lighting Applications	2	*	EGMT 1310 and MATH 1010
EGMT 1410	Energy Invest Analysis	2	*	EGMT 1210, 1240, 1310 and MATH 1010
EGMT 1420	Energy Accounting	2	*	CSIS 1019
EGMT 1540	Alternative Energy Tech	2	*	
EGMT 1700	Elect Prin for Alt Energy	3	*	
EGMT 2060	Energy Mgt Seminar 1	1	*	
EGMT 2065	Energy Mgt Seminar 2	1	*	
EGMT 2800	Energy Mgt Internship	4	*	Completion of all program course requirements

ELECTIVE COURSES: (SELECT 2-3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ACCT 1110	Financial Accounting I	3	A	
ARCH 2990	Special Topics (Green Bldg)	3		Instructor approval
CMGT 1410	Const Materials & Methods	2	F,Sp	
COMM 1140	Environmental Comm	3		
ECON 2250	Environmental Economics	3		
EGMT 1710	Basic Photovoltaic Systems	3	*	EGMT 1700
EGMT 1720	Adv Photovoltaic Systems	3	*	EGMT 1710
GEOG 1000	Earth's Surface Environ	3	A	
GEOG 1400	Human Geography (ID)	3	F, Sp	
GEOG 1800	Geospatial Technology	3	A	
GEOG 2200	Urban/Environ Issues (ID)	3	Sp	

SAMPLE SCHEDULE			
FALL - BLOCK 1		**FALL – BLOCK 2**	
ARCH 1100	3	EGMT 1110	2
EGMT 1010	2	EGMT 1540	2
MATH 1010	4	EGMT 2060	1
CSIS 1019	2	EGMT 1700	3
PHYS 1010	3		
Total	**14**	**Total**	**8**
SPRING – BLOCK 3		**SPRING – BLOCK 4**	
EGMT 1210	2	EGMT 1220	2
EGMT 1240	2	EGMT 1320	2
EGMT 1310	2	EGMT 1410	2

ENGL 1010	3	Tech Elective	2
Human Relation	3		
Total	**12**	**Total**	**8**
SUMMER – BLOCK 5			
EGMT 1120	3		
EGMT 1420	2		
ENGL 2100	3		
Total	**8**		
FALL – BLOCK 6		**FALL – BLOCK 7**	
EGMT 1130	3	EGMT 2800	4
EGMT 1230	3	EGMT 2065	1
Communication	3		
Distribution	3		
Total	**12**	**Total**	**5**

Advising Notes: General Education courses are full-semester, 16-week courses and will be taken separately from the accelerated 10-week block schedule.

Additional Program Notes: Each semester, registration responsibilities will be shared by the student (full semester courses) and program coordinator (accelerated block courses). Student should communicate with program coordinator prior to registering for courses throughout program participation.

CHEMICAL ENGINEERING – ASSOCIATE OF PRE-ENGINEERING^{CTE} (APE) 71 credits minimum

Engineering Department
Taylorsville Redwood Campus: SI 241
General Information: (801) 957-4944
Program Information: (801) 957-4418
http://www.slcc.edu/engineering
Academic Advisor: SI 209, (801) 957-4858

Program Faculty:
Professors – Nick Safai
Associate Professors – Francis Afghan, Lee Brinton, Holly Moore, Sara Farida
Instructors – James Smith, Wesley Sanders, Andrew Vogt, Quentin McRae

Program Description: Chemical engineering emphasizes physical, life and engineering sciences to convert raw materials into necessary materials and energy systems. Chemical engineers work in a wide range of industries, including petroleum processing, chemical processing and biomedical manufacturing, and in the development of new products based on chemical processes.

Transfer/Articulation Information: The associate of pre-engineering degree in chemical engineering is a transfer degree similar to the associate of science degree, but has reduced General Education requirements. Current accreditation board of engineering and technology (ABET) standards require upper-division General Education courses. The engineering students who complete this degree may apply for advanced-placement at an engineering school, but must complete General Education requirements at the senior institution.

Admission into an engineering major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: Each program requires as a prerequisite a science-oriented high school curriculum which includes as much mathematics, chemistry, physics and English as possible. Students who do not qualify to enter MATH 1210, CHEM 1210 and ENGL 1010 should take prerequisite courses before entering the first semester of their program. Students who need to take preparatory courses to meet the requirements of first semester courses should plan on extra time to complete the program. Consult with the academic advisor concerning these courses. It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated class may be taken.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Be prepared for further study in Chemical Engineering or a related discipline at a four-year college or university.	1
Understand the fundamentals of physical science, in particular inorganic chemistry, organic chemistry and physics.	1
Understand the mathematical tools necessary to perform engineering calculations – in particular Calculus, Linear Algebra and Differential.	1,3
Develop the laboratory skills necessary to design and perform scientific and engineering experiments, and to be able to interpret collected data.	1,3,4
Develop the laboratory skills necessary to design and perform scientific	1,4

and engineering experiments, and to be able to interpret collected data.	
Effectively communicate scientific and engineering concepts both orally and in writing.	2

GENERAL EDUCATION REQUIREMENTS

General Education requirements in this degree are reduced. Students who earn an Associate of Pre-Engineering degree will need to complete additional General Education requirement for a bachelor's degree at the receiving institution. Transfer students should obtain advising regarding General Education requirement specific to Engineering majors.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I (QL)	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

DISTRIBUTION AREAS:

Choose an additional six credits from two of the following distribution areas.

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Social Science (SS)	3

REQUIRED COURSES: (50 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGR 2010	Statics	3	F, Sp	MATH 1210. Recommended prereq: PHYS 2210
ENGR 2140	Strength of Mat	2	F, Sp	ENGR 2010 and MATH 2250(may be taken concurrently), and ENGR 2145(may be taken concurrently),
ENGR 2145	Strgth of Mat Lab	1	F, Sp	ENGR 2140 (may be taken concurrently)
ENGR 2300	Thermodynamics	3	F, Sp	CHEM 1210 and MATH 1220. Recommended prereq: PHYS 2210
ENGR 2450	Numerical Methods	3	Sp	ENGR 1030 or 1040 and MATH 2250
CHE 2800	Fund of Pro Eng	3	Sp	CHE 2300
CHEM 1210	GeneralChemistry I	4	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1210
CHEM 1220	GeneralChemistryII	4	Sp,Su	CHEM 1210 w a C or better. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem II Lab	1	Sp,Su	CHEM 1210 w a C or better. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	F, Sp	CHEM 1220 w a C or better. Recommended coreq: CHEM 2315
ENGR 1040	Engineer Comput	3	F, Sp	MATH 1060 or 1080
ENGR 2950	Engineering Forum	1	F,Sp	
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better
MATH 2210	MultivariateCalc	3	A	Within the last year, MATH 1220 w/C grade or better
MATH 2250	Diff EquaLin Alg	4	F, Sp	Within the last year, MATH 1220 w/C grade or better
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2220	Physics f/Sci&Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225

PROGRAM ELECTIVES:

COURSE		CR	SEM	PREREQUISITE
CHE 2000	CO-OP Education	1-2	A	Instructor approval

CHEM 2315	Organic Chem Lab I	1	F, Sp	CHEM 1220 w a C or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320
PHYS 2215	Physics f/Sci&Eng L I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2225	Physics f/Sci&Eng LII	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220
MSE 2320	Intro to SP Microscopy	2	F,Sp	CHEM 1110 or 1210
MSE 2330	Intro to SEM	2	F,Sp	CHEM 1110 or 1210 Recommended prereq: PHYS 2220

SAMPLE 4 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	CHEM 1220	4
CHEM 1215	1	CHEM 1225	1
ENGR 1040	3	PHYS 2210	4
DISTRIBUTION*	3	ENGR 2950	1
Total	**18**	**Total**	**17**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
CHEM 2310	4	CHE 2800	3
MATH 2250	4	MATH 2210	3
PHYS 2220	4	ENGR 2140	2
ENGR 2010	3	ENGR 2145	1
ENGR 2300	3	ENGR 2450	3
		AI	3
		DISTRIBUTION *	3
Total	**18**	**Total**	**18**

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option

SAMPLE 5 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	CHEM 1220	4
CHEM 1215	1	CHEM 1225	1
DISTRIBUTION*	3	AI	3
ENGR 2950	1		
Total	**16**	**Total**	**15**
SUMMER SEMESTER – YEAR 1			
PHYS 2210	4		
ENGR 1040	3		
Total	**7**		
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
ENGR 2010	3	CHE 2800	3
MATH 2250	4	MATH 2210	3
PHYS 2220	4	ENGR 2450	3
ENGR 2300	3	ENGR 2140	2
CHEM 2310	4	ENGR 2145	1
		DISTRIBUTION	3
Total	**18**	**Total**	**15**

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option

SAMPLE 6 SEMESTER SCHEDULE ASSUMING COLLEGE ALGEBRA READY WITH 7 MATH PREPARATION CREDITS			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1050**	4	MATH 1060**	3
ENGR 2950	1	CHEM 1210	4
DISTRIBUTION*	3	CHEM 1215	1
		AI	3
Total	**11**	**Total**	**14**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
ENGR 1040	3	ENGR 2010	3
MATH 1210	4	MATH 1220	4
CHEM 1220	4	CHEM 2310	4
CHEM 1225	1	PHYS 2210	4
Total	**12**	**Total**	**15**
FALL SEMESTER – YEAR 3		**SPRING SEMESTER – YEAR 3**	
MATH 2250	4	ENGR 2450	3
ENGR 2140	2	MATH 2210	3
ENGR 2145	1	CHE 2800	3
ENGR 2300	3	DISTRIBUTION*	3
PHYS 2220	4		
Total	**14**	**Total**	**12**

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option

**Well prepared students may substitute MATH 1080 for MATH 1050/MATH1060 with Math Department approval. Students who need additional math preparation should consult an academic advisor.

CIVIL/ENVIRONMENTAL ENGINEERING – ASSOCIATE OF PRE-ENGINEERING[CTE] (APE) — 73.5 credits minimum

Engineering Department
Taylorsville Redwood Campus, SI 220
General Information: (801) 957-4073
Program Information: (801) 957-4780
www.slcc.edu/engineering
Academic Advisor: SI 209, (801) 957-4858

Program Faculty:
Professors – Nick Safai
Associate Professors – Francis Afghan, Lee Brinton, Holly Moore, Sara Farida
Instructors – James Smith, Wesley Sanders, Andrew Vogt, Quentin McRae

Program Description:
Civil engineering encompasses a wide range of engineering projects dealing with buildings, bridges, dams, highways, transportation systems, water supply systems, fluid flow, water reclamation and geotechnical problems. Civil engineering affects many of our daily activities: the buildings we live in and work in, the transportation facilities we use, the water we drink, and the drainage and sewerage systems that are necessary to our health and well-being. Civil engineers: a) Design and supervise the construction of bridges, tunnels, large buildings, dams, and coastal structures, b) Plan, lay out, construct, and maintain railroads, highways, and airports, c) Devise systems for the control and efficient flow of traffic, e) Plan and build river regulation and flood control projects, f) Provide plants and systems for water supply and sewage and refuse disposal. G) Measure and map the earth's surface.

Civil is a very broad field and it includes at least eight major specialized areas of practice: 1) Structural engineering, 2) Hydraulic and water resources engineering, 3) Environmental engineering, 4) Geotechnical engineering, 5) Construction engineering and management, 6) Geodetic engineering, 7) Transportation engineering, 8) Hydrology and surface water flow. Civil engineers work with institutions of higher education, structural design and construction companies, power companies, manufacturing companies, and with consulting engineering firms. Many opportunities for civil engineering employment also exist in city, county, and state engineering departments and in the various agencies of the federal government.

Transfer/Articulation Information: The associate of pre-engineering degree is a transfer degree similar to the associate of science degree, but has reduced General Education requirements. Current accreditation board of engineering and technology (ABET) standards require upper-division General Education courses. Engineering students who complete this degree may apply for advanced-placement at an engineering school, but must complete General Education requirements at the senior institution.

Admission into an engineering major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: Each program requires as a prerequisite a science-oriented high school curriculum which includes as much mathematics, chemistry, physics and English as possible. Students who do not qualify to enter MATH 1210, CHEM 1210 and ENGL 1010 should take prerequisite courses before entering the first semester of their program. Students who need to take preparatory courses to meet the requirements of first semester courses should plan on extra time to complete the program. Consult with the academic advisor concerning these courses. It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated class may be taken.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged

	6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Be adequately prepared to seamlessly transfer to one of the four-year institutions to pursue a BS degree in Civil Engineering.	1,3
Be able to solve complex problems in engineering and science using critical thinking skills.	1,4
Demonstrate adequate ability of technical report writing, also written and oral communication with respect to technical concepts.	2
Understand the fundamentals of Mechanics, in particular statics dynamics, strength of materials and structural analysis.	1
Understand the mathematical tools necessary to perform engineering calculations – in particular Vector Calculus, Linear Algebra and Differential Equations.	1,3
Develop the laboratory skills necessary to design and perform scientific and engineering experiments, and to be able to interpret collected data.	1,3,4
Effectively communicate scientific and engineering concepts both orally and in writing.	2

GENERAL EDUCATION REQUIREMENTS

General Education requirement in this degree are reduced. Students who earn an Associate of Pre-Engineering degree will need to complete additional General Education requirement for a bachelor's degree at the receiving institution. Transfer student should obtain advising regarding General Education requirement specific to Engineering majors.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

DISTRIBUTION AREAS:

Choose an additional six credits from two of the following distribution areas.

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Social Science (SS)	3

REQUIRED COURSES: (53.5 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ARCH 1310	Intro to AutoCAD	3	F	
CEEN 1100	Civil Engr Design	3	F	MATH 1010 or appropriate Accuplacer score
ENGR 2010	Statics	3	A	MATH 1210. Recommended prereq: PHYS 2210
ENGR 2020	Dynamics I	2	F, Sp	ENGR 2010. Recommended prereq MATH 2210
CEEN 2240	Surveying	3	Sp	MATH 1060 or MATH 1080 or appropriate Accuplacer score
CEEN 2130	Engr Economics	4	F	MATH 1050 or MATH 1080
ENGR 2140	Strength of Mat I	2	F, Sp	ENGR 2010 and MATH 2250(may be taken concurrently), and ENGR 2145(may be taken concurrently)
ENGR 2145	Strgth of Mat Lab	1	F, Sp	ENGR 2140 (may be taken concurrently)
ENGR 2300	Eng Thermdyn	3	F, Sp	CHEM 1210 and MATH 1220. Recommended prereq: PHYS 2210

CHEM 1210	GeneralChemistry I	4	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score Recommended coreq: CHEM 1210
*CHEM 1220	GeneralChemistryII	4	Sp,Su	CHEM 1210 w a C or better. Recommended coreq: CHEM 1225
*CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210 w a C or better. Recommended coreq: CHEM 1220
OR				
*PHYS 2220	Physics f/Sci&Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
*PHYS 2225	Physics f/Sci&Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220
ENGR 1040	Engineer Computing	3	F, Sp	MATH 1060 or 1080
ENGR 2950	Engineering Forum	1	F, Sp	
EE 2200	Elec Engr for Civil Engr	1.5	Sp	PHYS 2210 and Math 2250 (may be taken concurrently)
OR				
MSE 2170	Material Sci for Civil Engr	1.5	F,Sp	CHEM 1210
OR				
*MSE 2160	Elements of Material Sci	3	F,Sp	CHEM 1210
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better
MATH 2210	Multivariate Calc	3	A	Within the last year, MATH 1220 w/C grade or better
MATH 2250	Diff EquaLin Alg	4	F, Sp	Within the last year, MATH 1220 w/C grade or better
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215

*Students planning an emphasis in Structural Engineering are encouraged to complete the second physics course;
Students planning for Environmental Engineering are encouraged to complete the second Chemistry course.
* Students planning to transfer to the University of Utah may count MSE 2160 as an upper division technical elective IF they also take EE 2200.

PROGRAM ELECTIVES:

COURSE		CR	SEM	PREREQUISITE
CEEN 2000	CO-OP Education	1-2	A	Instructor's approval
ENGR 2450	Numerical Methods	3	Sp	ENGR 1030 or 1040 and MATH 2250. Recommended coreq: MATH 2210
MEEN 1050	Des/Vis Com	2	F	Recommended prereq: MATH 1050 or 1080

SAMPLE 4 SEMESTER SCHEDULE – ASSUMING CALCULUS READY

FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	CHEM 1220/1225**	5**
CHEM 1215	1	PHYS 2210	4
CEEN 1100	3	ENGR 2950	1
DISTRIBUTION*	3	AI	3
Total	**18**	**Total**	**20**

FALL SEMESTER		**SPRING SEMESTER**	
ENGR 1040	3	ARCH 1310	3
MATH 2250	4	MATH 2210	3
PHYS 2220/2225**	5**	ENGR 2020	2
ENGR 2010	3	ENGR 2140	2
ENGR 2300	3	ENGR 2145	1
MSE 2170	1.5	CEEN 2130	4
or			
EE 2200		CEEN 2240	3
DISTRIBUTION*	3		
Total	17.5	**Total**	**18**

SAMPLE 5 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	CHEM 1220/1225**	5
CHEM 1215	1	PHYS 2210	4
DISTRIBUTION*	3		
ENGR 2950	1		
Total	**16**	**Total**	**16**
SUMMER SEMESTER – YEAR 1			
ENGR 1100	3		
AI	3		
Total	**6**		
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
ENGR 1040	3	ARCH 1310	3
MATH 2250	4	MATH 2210	3
PHYS 2220/2225**	5	ENGR 2020	2
ENGR 2010	3	ENGR 2140	2
ENGR 2300	3	ENGR 2145	1
DISTRIBUTION*	3	CEEN 2130	4
MSE 2160	1.5	CEEN 2240	3
OR			
EE2200			
Total	**17.5**	**Total**	**18**

SAMPLE 6 SEMESTER SCHEDULE – ASSUMING COLLEGE ALGEBRA READY WITH 7 MATH PREPARATION CREDITS			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1050***	4	MATH 1060***	3
ENGR 2950	1	CEEN 1100	3
DISTRIBUTION*	3	CHEM 1210	4
		CHEM 1215	1
Total	**11**	**Total**	**14**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
ENGR 1040	3	ARCH 1310	3
MATH 1210	4	MATH 1220	4
CHEM 1220**	4	MSE 2170 OR EE 2200	1.5
CHEM 1225**	1	PHYS 2210	4
TOTAL	**12**	**TOTAL**	**12.5**
FALL SEMESTER – YEAR 3		**SPRING SEMESTER – YEAR 3**	
MATH 2250	4	MATH 2210	3
PHYS 2220/2225**	5	CEEN 2240	3
CEEN 2130	4	AI	3
ENGR 2300	3	ENGR 2020	2
DISTRIBUTION*	3	ENGR 2140	2
ENGR 2010	3	ENGR 2145	1
Total	**17**	**Total**	**14**

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option

** Civil Engineers may choose between the second semester of Chemistry or Physics. If Physics is selected the schedule should be modified by moving CEEN 2300 and a distribution class to the spring semester of the first year.

*** Well prepared students may substitute MATH 1080 for MATH 1050/MATH1060 with Math Department approval. Students who need additional math preparation should consult an academic advisor.

COMPUTER ENGINEERING – ASSOCIATE OF PRE-ENGINEERING^{CTE} (APE) 74 credits minimum

Engineering Department
Taylorsville Redwood Campus, SI 220
General Information: (801) 957-4073
Program Information: (801) 957-4780
www.slcc.edu/engineering
Academic Advisor: SI 209, (801) 957-4858

Program Faculty:
Professors – Nick Safai
Associate Professors – Francis Afghan, Lee Brinton, Holly Moore, Sara Farida
Instructors – James Smith, Wesley Sanders, Andrew Vogt, Quentin McRae

Program Description:
Computer engineering integrates the fields of electrical engineering and computer science to develop computer hardware and software. Computer engineers are involved in many hardware and software aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design. This field of engineering not only focuses on how computer systems themselves work, but also how they integrate into the larger picture. It requires a strong background in physical science and mathematics.

Transfer/Articulation Information: The associate of pre-engineering degree is a transfer degree similar to the associate of science degree, but has reduced General Education requirements. Current accreditation board of engineering and technology (ABET) standards require upper-division General Education courses. Engineering students who complete this degree may apply for advanced-placement at an engineering school, but must complete General Education requirements at the senior institution.

The University of Utah offers two different major options:
- Computer Science
- Computer Engineering

Students should see an advisor to adjust SLCC program requirements according to the major option they are pursing. Transfer students should also obtain advising regarding General Education requirements specific to Engineering majors at the University of Utah.

Admission into an engineering major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: This program requires as a prerequisite a science-oriented high school curriculum which includes as much mathematics, chemistry, physics and English as possible. Students who do not qualify to enter MATH 1210, CHEM 1210 and ENGL 1010 should take prerequisite courses before entering the first semester of their program. Students who need to take preparatory courses to meet the requirements of first semester courses should plan on extra time to complete the program. Consult with the academic advisor concerning these courses. It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated class may be taken.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy

Students will demonstrate understanding of fundamental computer engineering science principles and be prepared to continue their studies toward a bachelor's degree in Computer Engineering at a 4-year university. Specifically, students will be able to: • Design and code using object oriented programming principles • Demonstrate an understanding of the basic principles associated with computer architectures • Demonstrate an understanding of discrete mathematics and algebraic structures as applied to computer science, • Apply these skills to design, build, and test projects involving simple electrical circuit.	1,3
Students who successfully complete this program will demonstrate the ability to communicate technical concepts in both written form and orally.	2
Students who successfully complete this program will understand the engineering approach to analysis and problem solving including developing a clear statement of objectives, identifying and evaluating potential strategies, analyzing results, and refining the solution.	4
Students who successfully complete this program will have an increased ability to engage civically.	5

GENERAL EDUCATION REQUIREMENTS

General Education requirement in this degree are reduced. Students who earn an Associate of Pre-Engineering degree will need to complete additional General Education requirement for a bachelor's degree at the receiving institution. Transfer student should obtain advising regarding General Education requirement specific to Engineering majors.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

DISTRIBUTION AREAS:

Choose an additional three credits from the three following distribution areas.

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Social Science (SS)	3

REQUIRED COURSES: (58 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGR 2950	Engineering Forum	1	F,Sp	
CSIS 1400	Fundamentals of Programming	4	F,Sp	
CSIS 1410	Object Oriented Programming	4	F,Sp	Recommended: CSIS 1400
CSIS 2420	Algorithms & Data Struc	4	F,Sp	Recommended: CSIS 1410
CSIS 2430	Discrete Structures	4	F,Sp	Recommended: CSIS 2420
CSIS 2810	Computer Architecture	4	F,Sp	Recommended: CSIS 1410
CPE 2700	Fund Digital Sys Design	4	Sp	PHYS 2220 and Recommended: CSIS1600
EE 1010	IntrLbInstr/Mthds	1	A	
EE 1020	Elec Eng Prob w/Matlab	1	F, Sp	MATH 1060 or 1080 (Either may be taken concurrently)

OR				
ENGR 1030	Matlab Problem Solving	3	A	MATH 1060 or 1080
OR				
ENGR 1040	Engineering Computing	3	A	MATH 1060 or 1080
EE 1270	Intro To Electric Circuits I	4	F,Sp	MATH 1220; PHYS 2210; EE 1020 or ENGR 1030 or ENGR 1040 (any may be taken concurrently)
EE 2260	Fund of Elec Circuits II	4	F, Sp	EE1270; PHYS 2220
EE 2280	Engineering Electronics	4	Sp, Su	EE1270, MATH2250 and PHYS 2220
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better
MATH 2210	Multivariate Calc	3	A	Within the last year, MATH 1220 w/C grade or better
MATH 2250	Diff EquaLin Alg	4	F, Sp	Within the last year, MATH 1220 w/C grade or better
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2220	Physics f/Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225

PROGRAM ELECTIVES:

COURSE		CR	SEM	PREREQUISITE
CPE 2720	Computer Design	2	F, Sp	EE 2700 or CPE 2700 (either may be taken concurrently)
CSIS 2000	Co-op Education	1	F, Sp	Instructor approval
CSIS 2900	Current Topics/CS	1	TBA	Instructor approval

Computer Engineering 74 credits

SAMPLE 4 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	EE 1270	4
EE 1010	1	CSIS 1410	4
EE 1020	1	MATH 1220	4
CSIS 1400	3	PHYS 2210	4
MATH 1210	4	PHYS 2215	1
AI	3	ENGR 2950	1
DISTRIBUTION	3		
Total	**18**	**Total**	**18**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
EE 2260	4	EE 2280	4
MATH 2250	4	CPE 2700	4
PHYS 2220	4	MATH 2210	3
CSIS 2420	4	CSIS 2430	4
ENGRL 2100	3	CSIS 2810	4
Total	**19**	**Total**	**19**

Computer Engineering 74 Credits

SAMPLE 5 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	EE 1270	4
EE 1010	1	CSIS 1400	3
EE 1020	1	MATH 1220	4
MATH 1210	4	PHYS 2210	4
AI	3	PHYS 2215	1
ENGR 2950	1		
Total	**13**	**Total**	**16**
SUMMER SEMESTER – YEAR 1			
CSIS 1410	4		
DISTRIBUTION	3		
ENGRL 2100	3		
Total	**10**		
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
EE 2260	4	EE 2280	4

MATH 2250	4	CPE 2700	4
PHYS 2220	4	MATH 2210	3
CSIS 2420	4	CSIS 2430	4
		CSIS 2810	4
Total	**16**	**Total**	**19**

Computer Engineering 74 credits +7 Math Preparation Credits

SAMPLE 6 SEMESTER SCHEDULE – ASSUMING COLLEGE ALGEBRA READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1050**	4	MATH 1060**	3
ENGR 2950	1	CSIS 1410	4
DISTRIBUTION*	3	AI	3
CSIS 1400	3		
Total	**14**	**Total**	**13**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
CSIS 2420	4	EE 1270	4
EE 1010	1	MATH 1220	4
EE 1020	1	PHYS 2210	4
MATH 1210	4	PHYS 2215	1
Total	**10**	**Total**	**13**
FALL SEMESTER – YEAR 3		**SPRING SEMESTER – YEAR 3**	
EE 2260	4	EE 2280	4
MATH 2250	4	CPE 2700	4
PHYS 2220	4	MATH 2210	3
CSIS 2430	4	CSIS 2810	4
Total	**16**	**Total**	**15**

Advising Notes:
Students planning to major in Electrical Engineering at Utah State University should take MATH 2270 and MATH 2280 in place of MATH 2250, both Physics labs (PHYS 2215 and PHYS 2225), and CSIS 1400 and CSIS 1410 in place of CSIS 1600.

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option
**Well prepared students may substitute MATH 1080 for MATH 1050/MATH1060 with Math Department approval. Students who need additional math preparation should consult an academic advisor.

ELECTRICAL ENGINEERING – ASSOCIATE OF PRE-ENGINEERING[CTE] (APE) 73 credits minimum

Engineering Department
Taylorsville Redwood Campus, SI 220
General Information: (801) 957-4073
Program Information: (801) 957-4780
www.slcc.edu/engineering
Academic Advisor: SI 209, (801) 957-4858

Program Faculty:
Professors – Nick Safai
Associate Professors – Francis Afghan, Lee Brinton, Holly Moore, Sara Farida
Instructors – James Smith, Wesley Sanders, Andrew Vogt, Quentin McRae

Program Description:
Electrical engineering is a branch of applied physics. Electrical engineers use math and physics concepts to design, simulate, build, and test electrical devices and systems.

Transfer/Articulation Information: The associate of pre-engineering degree is a transfer degree similar to the associate of science degree, but has reduced General Education requirements. Current accreditation board of engineering and technology (ABET) standards require upper-division General Education courses. Engineering students who complete this degree may apply for advanced-placement at an engineering school, but must complete General Education requirements at the senior institution.

Admission into an engineering major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: This program requires as a prerequisite a science-oriented high school curriculum which includes as much mathematics, chemistry, physics and English as possible. Students who do not qualify to enter MATH 1210, CHEM 1210 and ENGL 1010 should take prerequisite courses before entering the first semester of their program. Students who need to take preparatory courses to meet the requirements of first semester courses should plan on extra time to complete the program. Consult with the academic advisor concerning these courses. It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated class may be taken.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will demonstrate understanding of fundamental electrical engineering science principles and be prepared to continue their studies toward a bachelor's degree in Electrical Engineering at a 4-year university. Specifically, students will be able to: • Analyze electrical circuits using appropriate theoretical and mathematical principles and methods. • Use industry standard software to design and model electric circuits. • Use test and measurement equipment to analyze electrical circuits, • Apply these skills to design, build, and test projects involving	1,3

simple electrical circuit.	
Students who successfully complete this program will demonstrate the ability to communicate technical concepts in both written form and orally.	2
Students who successfully complete this program will understand the engineering approach to analysis and problem solving including developing a clear statement of objectives, identifying and evaluating potential strategies, analyzing results, and refining the solution.	4
Students who successfully complete this program will have an increased ability to engage civically.	5

GENERAL EDUCATION REQUIREMENTS

General Education requirements in this degree are reduced. Students who earn an Associate of Pre-Engineering degree will need to complete additional General Education requirement for a bachelor's degree at the receiving institution. Transfer students should obtain advising regarding General Education requirement specific to Engineering majors.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

DISTRIBUTION AREAS:

Choose an additional nine credits from the three following distribution areas.

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Social Science (SS)	3

REQUIRED COURSES: (51 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	GeneralChemistry I	4	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chemistry Lab I	1	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1210
CSIS 1600	Struct Program C C++	4	F, Sp	Recommended: MATH 1060 or 1080 (either may be taken concurrently)
OR		or		
CSIS1400 and	Fund. Of Programming	4		
CSIS1410	Obj.-Oriented Prog	4		
EE 1010	Lab Inst & Meth	1	F, Sp	
EE 1020	Elect Eng Prob	1	F, Sp	MATH 1060 or 1080 (may be taken concurrently)
OR				
ENGR 1030	Matlab Problem Solving	3	A	MATH1060 or 1080
OR				
ENGR 1040	Engineering Computing	3	A	Math1060 or 1080
EE 1270	Intro to Elect Circts	4	F, Sp	MATH 1220; PHYS 2210; EE 1020 or ENGR 1030 or ENGR 1040 (any may be taken concurrently)
EE 2260	Fund of Elec Cir	4	F, Sp	EE 1270, PHYS 2220 and MATH2250 (may be taken concurrently)
EE 2280	Fnds of Engr Elect	4	F, Sp	EE 1270, MATH 2250, PHYS 2220

EE 2700	Fund Digital Sys Design	4	F,Sp	CSIS 1400 or CSIS1600 and PHYS 2220
ENGR 2950	Engineering Forum	1	F,Sp	
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better
MATH 2210	Multivariate Calc	3	A	Within the last year, MATH 1220 w/C grade or better
MATH 2250	Diff EquaLin Alg	4	F, Sp	Within the last year, MATH 1220 w/C grade or better
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
**PHYS 2215	Physics f/Sci & Engr Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2220
PHYS 2220	Physics f/Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225

*Students may elect to complete this course during their junior year if they plan to attend the University of Utah.
**Not required at University of Utah; Utah State University required the labs for both Physics courses.

PROGRAM ELECTIVES:

COURSE		CR	SEM	PREREQUISITE
CSIS 2420	Intro Algorithms/Data	4	A	Recommended: CSIS 1410
EE 2000	CO-OP Education	1-2	A	Instructor approval

Electrical Engineering 73 credits

SAMPLE 4 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
CHEM 1210	4	EE 1270	4
CHEM 1215	1	CSIS 1410	4
EE 1010	1	ENGL 1010	3
EE 1020	1	MATH 1220	4
CSIS 1400	4	PHYS 2210	4
MATH 1210	4	PHYS 2215	1
AI	3		
ENGR 2950	1		
Total	**18**	**Total**	**20**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
EE 2260	4	EE 2280	4
MATH 2250	4	EE2700	4
PHYS 2220	4	MATH 2210	3
ENGRL 2100	3	DISTRIBUTION(2)	6
DISTRIBUTION*	3		
Total	**18**	**Total**	**17**

Electrical Engineering 73 Credits

SAMPLE 5 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
CHEM 1210	4	EE 1270	4
CHEM 1215	1	CSIS 1400	4
EE 1010	1	MATH 1220	4
EE 1020	1	PHYS 2210	4
MATH 1210	4	PHYS 2215	1
AI	3		
ENGR 2950	1		
Total	**15**	**Total**	**16**
SUMMER SEMESTER – YEAR 1			
ENGL 1010	3		
CSIS 1410	4		
DISTRIBUTION	3		
Total	**10**		
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
EE 2260	4	EE 2280	4
MATH 2250	4	EE2700	4
PHYS 2220	4	MATH 2210	3
ENGRL 2100	3	DISTRIBUTION(2)	6
Total	**15**	**Total**	**17**

Electrical Engineering 73 credits +7 Math Preparation Credits

SAMPLE 6 SEMESTER SCHEDULE – ASSUMING COLLEGE ALGEBRA READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1050**	4	MATH 1060**	3
ENGR 2950	1	CSIS 1400	4
DISTRIBUTION	3	CHEM 1210	4
		CHEM 1215	1
Total	**11**	**Total**	**14**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
EE 1010	1	EE 1270	4
EE 1020	1	MATH 1220	4
CSIS 1410	4	PHYS 2210	4
MATH 1210	4	PHYS 2215	1
AI	3		
Total	**13**	**Total**	**13**
FALL SEMESTER – YEAR 3		**SPRING SEMESTER – YEAR 3**	
EE 2260	4	EE 2280	4
MATH 2250	4	EE2700	4
PHYS 2220	4	MATH 2210	3
DISTRIBUTION	3	DISTRIBUTION	3
Total	**15**	**Total**	**14**

Advising Notes:
Students planning to major in Electrical Engineering at Utah State University should take MATH 2270 and MATH 2280 in place of MATH 2250, both Physics labs (PHYS 2215 and PHYS 2225), and CSIS 1400 and CSIS 1410 in place of CSIS 1600.

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option
**Well prepared students may substitute MATH 1080 for MATH 1050/MATH1060 with Math Department approval. Students who need additional math preparation should consult an academic advisor.

MANUFACTURING ENGINEERING – ASSOCIATE OF PRE-ENGINEERING[CTE] (APE) 65 credits minimum

Engineering Department
Taylorsville Redwood Campus, SI 220
General Information, (801) 957-4073
Program Information, (801) 957-4780
www.slcc.edu/engineering
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Professors – Nick Safai
Associate Professors – Francis Afghan, Lee Brinton, Holly Moore
Assistant Professors – Sara Farida

Program Description: Chemical engineering emphasizes physical, life and engineering sciences to convert raw materials into necessary materials and energy systems.

Civil/Environmental engineering encompasses a wide range of engineering projects dealing with buildings, bridges, dams, highways, transportation systems, water supply systems, fluid flow, water reclamation and geotechnical problems.

Computer engineering focuses on design and use of computers to solve and analyze math and physics problems.

Electrical engineering is a branch of applied physics, which uses mathematical concepts to analyze and design electrical devices and systems.

Materials science engineering involves chemistry and physics to develop scientific and engineering aspects of materials.

Mechanical engineering also uses math and physics to analyze and design mechanical devices and machine systems.

Manufacturing engineering focuses on methods and processes of manufacturing.

Transfer/Articulation Information: The associate of pre-engineering degree is offered in each of the seven engineering disciplines. It is a transfer degree similar to the associate of science degree, but has reduced General Education requirements. Current accreditation board of engineering and technology (ABET) standards require upper-division General Education courses. The engineering students who complete this degree may apply for advanced-placement at an engineering school, but must complete General Education requirements at the senior institution.

Admission into an engineering major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Students transferring to Weber State University or Brigham Young University should refer to the Manufacturing Engineering Technology AS degree.

Program Entry Requirements: Each program requires as a prerequisite a science-oriented high school curriculum which includes as much mathematics, chemistry, physics and English as possible. Students who do not qualify to enter MATH 1210, CHEM 1210 and ENGL 1010 should take prerequisite courses before entering the first semester of their program. Students who need to take preparatory courses to meet the requirements of first semester courses should plan on extra time to complete the program. Consult with the academic advisor concerning these courses. It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated class may be taken.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively

	3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Be prepared for further study in Manufacturing Engineering or related disciplines at a four-year college or university.	1,5
Understand key concepts, definitions, formulas, applications, design & analysis of Manufacturing field.	1,3
Understand the mathematical tools necessary to perform engineering calculations – in particular Calculus, Linear Algebra & Differential Equations.	1,3
Develop the laboratory skills necessary to design, develop, build and perform scientific & engineering experiments, to be able to interpret collected data, and create an effective technical report/paper.	1,3,4
Be able to solve complex problems in science & manufacturing engineering using critical thinking skills.	1,4
Effectively communicate scientific and engineering concepts both orally and in writing.	2

GENERAL EDUCATION REQUIREMENTS

General Education requirement in this degree are reduced. Students who earn an Associate of Pre-Engineering degree will need to complete additional General Education requirement for a bachelor's degree at the receiving institution. Transfer student should obtain advising regarding General Education requirement specific to Engineering majors.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

DISTRIBUTION AREAS:

Choose an additional nine credits from the three of the following distribution areas.

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Social Science (SS)	3

REQUIRED COURSES: (43 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CEEN 2010	Statics	3	F, Sp	MATH 1210. Recommended prereq: PHYS 2210
CEEN 2450	Num Tech	2	Sp	ENGR 1030 or 1040; MATH 2250
CHEM 1210	GeneralChemistry I	4	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score.

				Recommended coreq: CHEM 1210
CHEM 1220	GeneralChemistryII	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
ENGR 1040	Engineer Comp	3	F, Sp	MATH 1060 or 1080 (either may be taken concurrently)
CS 1410	Object Orient Program	4	A	CS 1400
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better
MATH 2210	Multivariate Cal	3	A	Within the last year, MATH 1220 w/C grade or better
MATH 2250	Diff Equat Alg	4	F, Sp	Within the last year, MATH 1220 w/C grade or better
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics f/Sci&Eng L I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics f/Sci&Eng II	4	A	PHYS 2210 and MATH 1210. Recommended coreq: PHYS 2225
PHYS 2225	Physics f/Sci&Eng LII	1	A	PHYS 2210 and MATH 1210. Recommended coreq: PHYS 2220

PROGRAM ELECTIVES:

COURSE		CR	SEM	PREREQUISITE
MEEN 2000	CO-OP Education	1-2	A	Instructor approval

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
CHEM 1210	4	CHEM 1220	4
CHEM 1215	1	CHEM 1225	1
MATH 1210	4	ENGR 1040	3
PHYS 2210	4	MATH 1220	4
PHYS 2215	1	PHYS 2220	4
AI	3	PHYS 2225	1
Total	**17**	**Total**	**17**

FALL SEMESTER		SPRING SEMESTER	
CEEN 2010	3	CEEN 2450	2
CS 1410	4	MATH 2250	4
ENGL 1010	3	ENGL 2010/2100	3
MATH 2210	3	DISTRIBUTION (2)	6
DISTRIBUTION	3		
Total	16	**Total**	**15**

MATERIALS SCIENCE ENGINEERING – ASSOCIATE OF PRE-ENGINEERING[CTE] (APE) 71 credits minimum

Engineering Department
Taylorsville Redwood Campus, SI 220
General Information: (801) 957-4073
Program Information: (801) 957-4780
www.slcc.edu/engineering
Academic Advisor: SI 209, (801) 957-4858

Program Faculty:
Professors – Nick Safai
Associate Professors – Francis Afghan, Lee Brinton, Holly Moore, Sara Farida
Instructors – James Smith, Wesley Sanders, Andrew Vogt, Quentin McRae

Program Description:
Materials science engineering is an interdisciplinary field incorporating concepts in both applied physics and chemistry to engineering applications. Materials engineers study the relationship between the structure of materials at atomic or molecular scales and their macroscopic properties. They are interested in understanding and predicting the properties of metals, ceramics, polymers, composites and semiconductors.

Transfer/Articulation Information: The associate of pre-engineering degree is a transfer degree similar to the associate of science degree, but has reduced General Education requirements. Current accreditation board of engineering and technology (ABET) standards require upper-division General Education courses. Engineering students who complete this degree may apply for advanced-placement at an engineering school, but must complete General Education requirements at the senior institution.

Admission into an engineering major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: Each program requires as a prerequisite a science-oriented high school curriculum which includes as much mathematics, chemistry, physics and English as possible. Students who do not qualify to enter MATH 1210, CHEM 1210 and ENGL 1010 should take prerequisite courses before entering the first semester of their program. Students who need to take preparatory courses to meet the requirements of first semester courses should plan on extra time to complete the program. Consult with the academic advisor concerning these courses. It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated class may be taken.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Be prepared for further study in Materials Science Engineering or a related discipline at a four-year college or university.	1
Understand the fundamentals of physical science, in particular inorganic chemistry, organic chemistry and physics	1
Understand the mathematical tools necessary to perform engineering calculations – in particular Calculus, Linear Algebra and Differential Equations	1,3
Develop the laboratory skills necessary to design and perform scientific and engineering experiments, and to be able to interpret collected data.	1,3,4

Be able to solve complex problems in engineering and science using critical thinking skills	1,4
Effectively communicate scientific and engineering concepts both orally and in writing	2

GENERAL EDUCATION REQUIREMENTS

General Education requirements in this degree are reduced. Students who earn an Associate of Pre-Engineering degree will need to complete additional General Education requirement for a bachelor's degree at the receiving institution. Transfer students should obtain advising regarding General Education requirement specific to Engineering majors.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

DISTRIBUTION AREAS:

Choose an additional three credits from the following distribution areas.

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Social Science (SS)	3

REQUIRED COURSES: (55 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGR 2010	Statics	3	F, Sp	MATH 1210. Recommended prereq: PHYS 2210
ENGR 2140	Strength Mtls I	2	F, Sp	ENGR 2010 , ENGR 2145 (may be taken concurrently) and MATH 2250 (may be taken concurrently)
ENGR 2145	Strengths Lab	1	F,Sp	ENGR 2140 (may be taken concurrently)
CHEM 1210	General Chemistry I	4	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommeded coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1210
CHEM 1220	General ChemistryII	4	Sp,Su	CHEM 1210 w a C or better. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210 w a C or better. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	A	CHEM 1220 w a C or better. Recommended coreq: CHEM 2315
ENGR 1040	Engineer Comp	3	F, Sp	MATH 1060 or 1080 (either may be taken concurrently)
EE 2210	Elet Eng f/non EEmaj	3	F, Sp	PHYS 2220; MATH 2250 (may be taken concurrently)
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better
MATH 2210	Multivariate Cal	3	A	Within the last year, MATH 1220 w/C grade or better
MATH 2250	Diff Equ Alg	4	F, Sp	Within the last year, MATH 1220 w/C grade or better
MSE 2010	Int Mat Sci Eng	4	F	CHEM 1210
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics f/Sci&Eng L I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics f/Sci&Eng II	4	A	PHYS 2210 and MATH 1210. Recommended coreq: PHYS 2225
ENGR 2950	Engineering Forum	1	F,Sp	
MSE 2320	Intro to SP Microscopy	2	F, Sp	CHEM 1110 or CHEM 1210
MSE 2330	Intro to SEM	2	F, Sp	CHEM 1110 or CHEM 1210

PROGRAM ELECTIVES:

COURSE		CR	SEM	PREREQUISITE
ENGR 2450	Numerical Methods	3	Sp	ENGR 1030 or 1040; MATH 2250. Recommended prereq: MATH 2210
CHEM 2320	Organic Chem II	4	A	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
MSE 2000	CO-OP Education	1-2	A	Departmental approval

Materials Science Engineering 71 credits

SAMPLE 4 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	CHEM 1220/1225	5
CHEM 1215	1	PHYS 2210	4
ENGR 1040	3	PHYS 2215	1
ENGR 2950	1		
Total	**16**	**Total**	**17**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
CHEM 2310	4	EE2210	3
MATH 2210	3	MATH 2250	4
PHYS 2220	4	ENGR 2140	2
ENGR 2010	3	ENGR 2145	1
MSE 2010	4	MSE 2330	2
MSE 2320	2	AI	3
		DISTRIBUTION	3
Total	**20**	**Total**	**18**

Materials Science Engineering 71 Credits

SAMPLE 5 SEMESTER SCHEDULE – ASSUMING CALCULUS READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	CHEM 1220	4
CHEM 1215	1	CHEM 1225	1
ENGR 1040	3	PHYS 2210	4
		PHYS 2215	1
Total	**15**	**Total**	**17**
SUMMER SEMESTER – YEAR 1			
AI	3		
ENGR 2010	3		
DISTRIBUTION*	3		
Total	**9**		
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
MATH 2210	3	EE2210	3
PHYS 2220	4	MATH 2250	4
CHEM 2310	4	ENGR 2950	1
MSE 2010	4	ENGR 2140	2
		ENGR 2145	1
		MSE 2330	2
		MSE 2320	2
Total	**15**	**Total**	**15**

Materials Science Engineering 71 credits +7 Math Preparation Credits

SAMPLE 6 SEMESTER SCHEDULE – ASSUMING COLLEGE ALGEBRA READY			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1050**	4	MATH 1060**	3
ENGR 2950	1	CHEM 1210	4
DISTRIBUTION*	3	CHEM 1215	1
		ENGR 1040	3
Total	**11**	**Total**	**14**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
MATH 1210	4	ENGR 2010	3
CHEM 1220	4	MATH 1220	4
CHEM 1225	1	CHEM 2310	4
MSE 2010	4	PHYS 2210	4
		PHYS 2215	1
Total	**13**	**Total**	**16**
FALL SEMESTER – YEAR 3		**SPRING SEMESTER – YEAR 3**	
MATH 2210	3	EE2210	3
PHYS 2220	4	MATH 2250	4
ENGR 2140	2	MSE 2330	2
ENGR 2145	1	AI	3
MSE 2320	2		
Total	**12**	**Total**	**12**

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option

**Well prepared students may substitute MATH 1080 for MATH 1050/MATH1060 with Math Department approval. Students who need additional math preparation should consult an academic advisor.

MECHANICAL ENGINEERING – ASSOCIATE OF PRE-ENGINEERING[CTE] (APE) 73 credits minimum

Engineering Department
Taylorsville Redwood Campus, SI 220
General Information: (801) 957-4073
Program Information: (801) 957-4780
www.slcc.edu/engineering
Academic Advisor: SI 209, (801) 957-4858

Program Faculty:
Professors – Nick Safai
Associate Professors – Francis Afghan, Lee Brinton, Holly Moore, Sara Farida
Instructors – James Smith, Wesley Sanders, Andrew Vogt, Quentin McRae

Program Description:
Mechanical engineering is one of the oldest and broadest areas of engineering. It requires an understanding of mechanics, kinematics, thermodynamics, materials science, structural analysis and electronics. Mechanical engineers use math and physics to analyze and design mechanical devices and machine systems – things that move. They work in aerospace, automotive, robotics, metallurgy, petroleum and other manufacturing and design industries.

Transfer/Articulation Information: The associate of pre-engineering degree is a transfer degree similar to the associate of science degree, but has reduced General Education requirements. Current accreditation board of engineering and technology (ABET) standards require upper-division General Education courses. Engineering students who complete this degree may apply for advanced-placement at an engineering school, but must complete General Education requirements at the senior institution.

Admission into an engineering major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: Each program requires as a prerequisite a science-oriented high school curriculum which includes as much mathematics, chemistry, physics and English as possible. Students who do not qualify to enter MATH 1210, CHEM 1210 and ENGL 1010 should take prerequisite courses before entering the first semester of their program. Students who need to take preparatory courses to meet the requirements of first semester courses should plan on extra time to complete the program. Consult with the academic advisor concerning these courses. It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated class may be taken.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Be prepared for further study in Mechanical Engineering or related disciplines at a four-year college or university.	1,5
2. Understand key concepts, definitions, formulas, applications, design & analysis of mechanical field.	1,3
3. Understand the mathematical tools necessary to perform engineering calculations – in particular Calculus, Linear Algebra & Differential Equations.	1,3
4. Develop the laboratory skills necessary to design, develop, build and perform scientific & engineering experiments, to be able to interpret	1,3,4

collected data, and create an effective technical report/paper.	
5. Be able to solve complex problems in science & mechanical engineering using critical thinking skills.	1,4
6. Effectively communicate scientific and engineering concepts both orally and in writing.	2

GENERAL EDUCATION REQUIREMENTS

General Education requirements in this degree are reduced. Students who earn an Associate of Pre-Engineering degree will need to complete additional General Education requirement for a bachelor's degree at the receiving institution. Transfer students should obtain advising regarding General Education requirement specific to Engineering majors.

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

DISTRIBUTION AREAS:

Choose an additional three credits from two of the following distribution areas.

COURSE	CR
Fine Arts (FA)	3-4
Humanities (HU)	3
Social Science (SS)	3

REQUIRED COURSES: (57 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	General Chem I	4	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommeded coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F, Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommeded coreq: CHEM 1210
ENGR 1030	MatLab Problem Solving	3	A	MATH 1060 or 1080
ENGR 2950	Engineering Seminar	1	F,Sp	
EE 2210	Elec En/Non EE	3	F, Sp	PHYS 2220; MATH 2250 (may be taken concurrently)
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better.
MATH 2210	Multivariate Cal	3	A	MATH 1220 w/C grade or better
MATH 2250	Diff Equ/Lin Alg	4	F, Sp	MATH 1220 w/C grade or better
MEEN 1050	Des&Visual Comm	3	F, Sp	prereq: MATH 1050 or 1080
ENGR 2010	Statics	3	A	MATH 1210. Recommended prereq: PHYS 2210
ENGR 2020	Dynamics I	2	F, Sp	ENGR 2010. Recommended prereq: MATH 2210
ENGR 2060	Dynamics II	2	Sp	ENGR 2020. Recommended prereq: MATH 2250
ENGR 2140	Strength Mtls I	2	F, Sp	ENGR 2010 and MATH 2250(may be taken concurrently), and ENGR 2145(may be taken concurrently)
ENGR 2145	Strgth of Mat Lab	1	F, Sp	ENGR 2140 (may be taken concurrently)
ENGR 2300	Thermodynamics	3	F, Sp	CHEM 1210 and MATH 1220. Recommended prereq: PHYS 2210
ENGR 2450	Numerical Methods	3	A	ENGR 1030 or 1040; and MATH 2250. Recommended prereq: MATH 2210
MEEN 2655	Engr Manufacturing Lab	1	A	Recommended Coreq: MEEN 1050
MEEN 2650	Manufacturing	3	F,Sp	Prereq: ENGR 2010 and MSE 2160
MSE 2160	Elem Mat Eng	3	F	CHEM 1210
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215

PHYS 2220	Physics f/Sci&Eng II	4	A	MATH 1220 and PHYS 2210. Recommended coreq: PHYS 2225

PROGRAM ELECTIVES:

COURSE		CR	SEM	PREREQUISITE
MEEN 2000	CO-OP Education	1-2	A	Instructor approval

SAMPLE 4 SEMESTER SCHEDULE – ASSUMING CALCULUS READY

FALL SEMESTER – YEAR 1		SPRING SEMESTER – YEAR 1	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	MSE 2160	3
CHEM 1215	1	PHYS 2210	4
MEEN 1050	3	AI	3
MEEN 2655	1	ENGR 2950	1
DISTRIBUTION*	3		
Total	**19**	**Total**	**18**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
ENGR 1030	3	EE2210	3
MATH 2250	4	MATH 2210	3
PHYS 2220	4	ENGR 2020	2
ENGR 2010	3	ENGR 2450	3
ENGR 2300	3	ENGR 2060	2
MEEN 2650	3	ENGR 2140	2
		ENGR 2145	1
Total	**20**	**Total**	**16**

SAMPLE 5 SEMESTER SCHEDULE - ASSUMING CALCULUS READY

FALL SEMESTER – YEAR 1		SPRING SEMESTER – YEAR 1	
ENGL 1010	3	ENGL 2100	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	MSE 2160	3
CHEM 1215	1	PHYS 2210	4
DISTRIBUTION*	3	AI	3
ENGR 2950	1		
Total	**16**	**Total**	**17**
SUMMER SEMESTER – YEAR 1			
MEEN 1050	3		
MEEN 2655	1		
ENGR 2010	3		
Total	**7**		
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
ENGR 1030	3	EE2210	3
MATH 2250	4	MATH 2210	3
PHYS 2220	4	ENGR 2450	3
ENGR 2020	2	ENGR 2060	2
ENGR 2300	3	ENGR 2140	2
MEEN 2650	3	ENGR 2145	1
Total	**19**	**Total**	**14**

SAMPLE 6 SEMESTER SCHEDULE ASSUMING COLLEGE ALGEBRA READY WITH 7 MATH PREPARATION CREDITS			
FALL SEMESTER – YEAR 1		**SPRING SEMESTER – YEAR 1**	
ENGL 1010	3	ENGL 2100	3
MATH 1050**	4	MATH 1060**	3
ENGR 2950	1	MEEN 1050	3
DISTRIBUTION*	3	MEEN 2655	1
		AI	3
Total	**11**	**Total**	**13**
FALL SEMESTER – YEAR 2		**SPRING SEMESTER – YEAR 2**	
ENGR 1030	3	ENGR 2010	3
MATH 1210	4	MATH 1220	4
CHEM 1210	4	MSE 2160	3
CHEM 1215	1	PHYS 2210	4
Total	**12**	**Total**	**14**
FALL SEMESTER – YEAR 3		**SPRING SEMESTER – YEAR 3**	
MATH 2250	4	EE2210	3
PHYS 2220	4	MATH 2210	3
ENGR 2020	2	ENGR 2450	3
ENGR 2300	3	ENGR 2060	2
MEEN 2650	3	ENGR 2140	2
		ENGR 2145	1
Total	**16**	**Total**	**14**

Advising Note: Students planning to major in Mechanical Engineering at Utah State University also need both Physics Labs (PHYS 2215 and PHYS 2225)

* We recommend FA 1080 – Basic Metal Sculpture – as a distribution option

**Well prepared students may substitute MATH 1080 for MATH 1050/MATH1060 with Math Department approval. Students who need additional math preparation should consult an academic advisor.

MICROSCOPY – CERTIFICATE OF PROFICIENCY[CTE] 20 credits minimum

Program Division: Division of Natural Sciences
Program Location: Taylorsville Redwood, Science & Industry Building, SI 345
General Information: (801) 957-4073
Program Information: (801) 957-4150
Program Website: http://www.slcc.edu/engineering
Academic Advisor: SI – 209, (801) 957-4858

Program Faculty:
Dean – Dr. Clifton Sanders
Associate Dean – Dr. Peter Iles
Associate Professor – Dr. Holly Moore
Instructor – Dr. James Smith
Instructor – Dr. Wesley Sanders

Program Description:
The Microscopy Certificate of Proficiency Program will provide students with skills in basic optical, electron, and scanning probe microscopy techniques. Electron and scanning probe microscopes are powerful tools designed to generate topographical images and data on a wide variety of micro -and nanoscale materials. These microscopes are used in a multitude of academic and industrial endeavors across many scientific disciplines. This two-year certification program comprises of coursework with a substantial hands-on component. Students who complete the program will be proficient in basic optical microscopy, scanning probe microscopy, electron microscopy, chemical characterization (x-ray/EDS), electrical characterization, image processing, interpretation of microscope data, and presentation of observations. The proficiencies addressed in the microscopy program are outlined by the Nanotechnology Applications and Career Knowledge (NACK) center model at Penn State. The application of microscopy is an important component of numerous economic fields including but not limited to; semiconductors, materials science, metallurgy, engineering, environmental studies, medicine, manufacturing, and nanotechnology. Local area semiconductor fabrication facilities, namely IM Flash and Fairchild semiconductor, can benefit from the program by having a pool of technicians to choose from, in the Salt Lake area, ready to enter the nanotechnology workforce. These students turned technicians are ready to complete in a global nanotechnology market because the Microscopy Certificate of Proficiency Program trains participants in the skill sets needed to characterize material on the micro- and nanoscale. This certificate is meant to be a stackable credential, meaning students can use the knowledge and technical skills acquired to enhance their chosen field of study or employment.

Career Opportunities:
Students completing the Microscopy Certificate of Proficiency program will be highly qualified for most entry-level lab assistant positions or technician positions in a variety of fields. Microscopy related employment is available in materials research, medical diagnostic, life sciences research, product development, quality assurance, failure analysis, process optimization, just to name a few. Potential lab assistant and technician entry level positions for students who complete the program are found in government, academic, and industrial institutions.

Transfer/Articulation Information:
None.

Program Entry Requirements:
None.

Total Program/Course Fees:
$100 Lab fees for each individual microscopy course (electron microscopy, scanning probe microscopy, and optical microscopy).

Additional chemistry and elective course fees may apply.

Estimated Cost for Students:
Tuition and books each semester.

Estimated Time to Completion:
Full-time: Four semesters (12 credit hours per semester)

Part-time: Six semesters (6 credit hours per semester)

Specialized Accreditation:
None.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will learn how to characterize micro and nanoscale structures using Atomic Force Microscopy, Scanning Electron Microscopy, and Transmission Electron Microscopy. Additionally, students will learn how to analyze nanoscale materials using energy dispersive x-ray spectroscopy (EDS) and UV-VIS spectroscopy.	1 – Acquire substantive knowledge. 2 – Communicate effectively. 3 – Develop quantitative literacy. 4 – Think critically and creatively. 5 – Civic engagement. 6 – Work professionally and constructively.
Students will demonstrate their ability to deposit micro and nanoscale structures utilizing stamping lithography, imprint lithography, and self assembly of alkanethiol molecules. Students will subsequently demonstrate their ability to use the AFM, SEM, TEM, and spectroscopic techniques to analyze their sample.	1 – Acquire substantive knowledge. 3 – Develop quantitative literacy. 4 – Think critically and creatively.
Students will understand the chemical and physical phenomena associated with the following fabrication techniques; top-down fabrication, sputter, physical vapor deposition systems, plasma, and chemical materials modification.	1 – Acquire substantive knowledge. 3 – Develop quantitative literacy. 4 – Think critically and creatively.
Students will develop a professional decorum that is transferable to an industrial or academic nanofabrication lab by conducting presentations in aassociated microscopy course work. Preparation for the presentation involves; research skills, presentation skills, and technical reporting and documentation.	2 – Communicate effectively. 3 – Develop quantitative literacy. 4 – Think critically and creatively. 5 – Civic engagement. 6 – Work professionally and constructively. 7 – Develop computer and information literacy.

REQUIRED COURSES: (16 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	General Chemistry I	4	A	MATH 1050 w/C grade or better or appropriate Accuplacer score
CHEM 1215	General Chemistry Lab I	1	A	MATH 1050 W/C grade or better, or appropriate Accuplacer score
EE 1010	Lab Instruments and Methods	1	A	
ENGR 1050	Introduction to Nanotechnology (ID)	3	A	
MSE 1820	Fundamentals of Optical Microscopy	2	A	
MSE 2320	Intro Scan Prob Microscopy	2	A	CHEM 1210
MSE 2330	Intro to SEM	2	A	CHEM 1210
MSE 2000	Cooperative Education in Materials Science	1-2		Sophomore standing, minimum 2.0 GPA, and departmental approval.

ELECTIVE COURSES: (SELECT 4 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
MSE 2010	Intro to Materials Science Engineering	4		CHEM 1210
OR				
MSE 2160	Elements of Material Science	3		
GEO 1010	Introduction to Geology	3		Coreq: GEO 1115
GEO 1115	Physical Geology Lab	1		Coreq: GEO 1010
BTEC 1010	Introduction to Biotechnology	3		MATH0990 and RDG 0990 w/ C or better or equivalent placement test score. Coreq: BTEC 1015
BTEC 1015	Introduction to Biotechnology Lab	1		Coreq: BTEC 1010

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
EE 1010	1	CHEM 1210	4
ENGR 1050	3	CHEM 1215	1
		MSE 1820	2
Total	**4**	**Total**	**7**
FALL SEMESTER		**SPRING SEMESTER**	
MSE 2320	2	MSE 2330	2
ELEC	4	MSE 2000	1-2
Total	**6**	**Total**	**3 or 4**

Advising Notes:
Students who need to take preparatory classes to satisfy requirements of first semester classes should plan on extra time to complete the program. Participating students are responsible for being cognizant of prerequisites required for associated classes. Required prerequisites must be satisfied before the designated class is taken.

Advising Notes:

Additional Program Notes:

NANOTECHNOLOGY – CERTIFICATE OF PROFICIENCY[CTE] 26 credits minimum

Program Division: Division of Natural Sciences
Program Location: Taylorsville Redwood, Science & Industry Building, SI 345
General Information: (801) 957-4073
Program Information: (801) 957-4150
Program Website: http://www.slcc.edu/engineering
Academic Advisor: SI – 209: (801) 957-4858

Program Faculty:
Dean – Dr. Clifton Sanders
Associate Dean – Dr. Peter Iles
Associate Professor – Dr. Holly Moore
Instructor – Dr. James Smith
Instructor – Dr. Wesley Sanders

Program Description:
The Nanotechnology Certificate of Proficiency Program will provide students with skills in basic micro- and nanofabrication procedures used to create a wide variety of nanomaterials, and will familiarize students with the best safety and environmental practices used in nanofabrication laboratories. Through collaboration with the University of Utah and local area industries, this program will expose students to equipment common place in micro- and nanofabrication laboratories including but not limited to clean room facilities, vacuum systems, plasma systems, etch systems, photolithography, and chemical vapor deposition. Equipment of this nature is routinely used in the creation of integrated circuits and computer chips found in all solid state electronic devices. This two-year certification program comprises of coursework outlining the fundamentals of micro- and nanofabrication and hands-on experiences courtesy of the University of Utah and an internship/co-op program. Students who complete the program will have acquired an understanding of the operational fundamentals of micro- and nanofabrication instrumentation, and experience using the equipment. The proficiencies addressed in the microscopy program are outlined by the Nanotechnology Applications and Career Knowledge (NACK) center model at Penn State. Micro- and nanofabrication is an important component of numerous economic fields including but not limited to; semiconductors, materials science, metallurgy, engineering, environmental studies, medicine, manufacturing, and nanotechnology. Local area semiconductor fabrication facilities, namely IM Flash and Fairchild semiconductor, can benefit from the program by having a pool of technicians to choose from, in the Salt Lake area, ready to enter the nanotechnology workforce. These students turned technicians are ready to complete in a global nanotechnology market because the Nanotechnology Certificate of Proficiency Program trains participants in the skill sets needed to fabricate micro- and nanoscale materials. This certificate is meant to be a part of a series of stackable credentials, meaning students can use the knowledge and technical skills acquired to enhance their chosen field of study or employment.

Career Opportunities:
Students completing the Nanotechnology Certificate of Proficiency program will be highly qualified for most entry-level lab assistant positions or technician positions in a variety of fields. Micro- and nanofabrication related employment is available in materials research, medical diagnostic, life sciences research, product development, quality assurance, failure analysis, process optimization, just to name a few. Potential lab assistant and technician entry level positions for students who complete the program are found in government, academic, and industrial institutions.

Transfer/Articulation Information:
None.

Program Entry Requirements:
None.

Total Program/Course Fees:
$100 Lab fees for each individual microscopy course (electron microscopy, scanning probe microscopy, and optical microscopy).

Additional chemistry and elective course fees may apply.

Estimated Cost for Students:
Tuition and books each semester.

Estimated Time to Completion:
Full-time: Four semesters (12 credit hours per semester)
Part-time: Six semesters (6 credit hours per semester)

Specialized Accreditation:
None.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate awareness of basic nanotechnology related EHS awareness by understanding basics of material properties of substances used, and properly storing and disposing of substances.	1 – Acquire substantive knowledge. 5 – Civic Engagement
Students will demonstrate knowledge of nanotechnology equipment and processing skills by successfully completing a co-op. In this co-op, students will learn proper use and maintenance of chemical hoods and glove boxes. This co-op will also allow students to learn how to operate and maintain equipment associated with; vacuum systems, plasma systems, and furnaces.	1 – Acquire substantive knowledge. 2 – Communicate effectively. 3 – Develop quantitative literacy. 4 – Think critically and creatively. 5 – Civic engagement. 6 – Work professionally and constructively.
Students will understand the chemical and physical principles involved with etch and deposition systems.	1 – Acquire substantive knowledge. 3 – Develop quantitative literacy. 4 – Think critically and creatively.
Students will describe the chemical and physical processes involved with photolithography, e-beam lithography, and ion beam lithography systems.	1 – Acquire substantive knowledge. 3 – Develop quantitative literacy. 4 – Think critically and creatively.
Students will recognize when fabrication procedures are top-down and when the other fabrication procedures are bottom-up by examining a wide variety of techniques such as, reactive ion etch, dry etch, chemical vapor deposition (CVD), physical vapor disposition (PVD), and chemicals material modification.	1 – Acquire substantive knowledge. 3 – Develop quantitative literacy. 4 – Think critically and creatively.
Students will learn how to characterize micro and nanoscale structures using Atomic Force Microscopy, Scanning Electron Microscopy, and Transmission Electron Microscopy. Additionally, students will learn how to analyze nanoscale materials using energy dispersive x-ray spectroscopy (EDS) and UV-VIS spectroscopy.	1 – Acquire substantive knowledge. 2 – Communicate effectively. 3 – Develop quantitative literacy. 4 – Think critically and creatively. 7 – Develop computer and information literacy.
Students will develop a professional decorum that is transferable to an industrial or academic nanofabrication lab by conducting presentations in aassociated microscopy course work. Preparation for the presentation involves; research skills, presentation skills, and technical reporting and documentation.	2 – Communicate effectively. 3 – Develop quantitative literacy. 4 – Think critically and creatively. 5 – Civic engagement. 6 – Work professionally and constructively. 7 – Develop computer and information literacy.

REQUIRED COURSES: (22 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	General Chemistry I	4	A	MATH 1050 w/C grade or better or appropriate Accuplacer score
CHEM 1220	General Chemistry II	4	A	CHEM 1210
ENGR 1050	Introduction to Nanotechnology	3	A	N/A
ENGR 2050	Nano II – Properties of Nanomaterials	3	A	ENGR 1050 – Introduction to Nanotechnology
ENGR 2070	Micro and Nanoscale Fabrication Processes	2	A	ENGR 1050 – Introduction to Nanotechnology
MSE 2960	Foundations of Microsystems	1		Taken at the University of Utah
MSE 1820	Fundamentals of Optical Microscopy	2	A	MATH 1050 w/C grade or better or appropriate Accuplacer score
MSE 2320	Intro Scan Prob Microscopy	2	A	CHEM 1210
OR				
MSE 2330	Intro to SEM	2	A	CHEM 1210

MSE 2000	Cooperative Education in Materials Science Engineering	1-2	A	Prereq: Sophomore standing, minimum 2.0 GPA, and departmental approval.

ELECTIVE COURSES: (SELECT 4 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
MSE 2010	Intro to Materials Science Engineering	4	A	CHEM 1210
OR				
MSE 2160	Elements of Material Science	3		
CHEM 2310	Organic Chemistry I	4	A	CHEM 1220
BTEC 1010	Introduction to Biotechnology	3	A	MATH 0990 and RDG 0990 w/ C or better or equivalent placement test score. Coreq: BTEC 1015
BTEC 1015	Introduction to Biotechnology Lab	1	A	Coreq: BTEC 1010

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGR 1050	3	CHEM 1220	4
CHEM 1210	4	MSE 2960 (U OF U)	1
		MSE 1820	2
Total	**7**	**Total**	**7**
FALL SEMESTER		**SPRING SEMESTER**	
MSE 2320 or MSE 2330	2	MSE 2000	1-2
Elective	4	ENGR 2050	3
		ENGR 2070	2
Total	**6**	**Total**	**6-7**

Advising Notes:
Students who need to take preparatory classes to satisfy requirements of first semester classes should plan on extra time to complete the program. Participating students are responsible for being cognizant of prerequisites required for associated classes. Required prerequisites must be satisfied before the designated class is taken.

Advising Notes: Certificate of Proficiency not eligible for Financial Aid.

Additional Program Notes:

ENGINEERING DESIGN/DRAFTING TECHNOLOGY – ASSOCIATE OF SCIENCE[CTE] (AS)

64 credits minimum; 22 credits beyond AAS

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341
General Information, (801) 957-4827
Program Information, (801) 957-4150
www.slcc.edu/drafting
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Instructors – Joel Clarkston, Michael Stenquist

Program Description: The AS Degree focusing on Engineering Design/Drafting Technology is designed for students who have completed an AAS in Engineering Design/Drafting and who are interested in transferring to UVU Technology Management Bachelor's degree. The program allows the courses that are required in the AAS degree to be combined with additional General Education courses to satisfy AS degree requirements.

Transfer/Articulation Information: Upon completion of the AS degree, students should be able to transfer as juniors to UVU Technology Management Bachelor's program (see a transfer advisor). Students who transfer before completing the AAS and the AS in Engineering Design/Drafting Technology must see the UVU advisor about specific requirement they may still need to complete; including MATH 1040.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

GENERAL EDUCATION REQUIREMENTS (BEYOND THOSE COMPLETED FOR AAS)

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) COMPLETED IN AAS DEGREE

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas *except for the one selected for the AAS degree*. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: LE 1220 satisfies Social Science (SS) and COMM 2110 satisfies Interdisciplinary (ID) Distribution Area requirements.

MANUFACTURING ENGINEERING TECHNOLOGY – ASSOCIATE OF SCIENCE[CTE] (AS) 62-64 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341
General Information, (801) 957-4827
Program Information, (801) 957-4150
www.slcc.edu/drafting
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Instructors – Joel Clarkston, Michael Stenquist

Program Description: Manufacturing Engineering Technology – the manufacturing engineering technician designs tooling for the fabrication of mass-produced parts, monitors the manufacturing processes, and performs inspection. Students enrolled in SLCC's AS Manufacturing Engineering Technology program will learn about all aspects of manufacturing. Specific topics include computer-aided drafting and solid modeling, materials and processes, manual and CNC machining, plastic and composites production methods and welding manufacturing. During their final semester, students will work as a member of a team that has been assigned a project. The team will design, solid model, tolerance study, document, CAM program and build the assigned project.

Career Opportunities: Two year graduates in Manufacturing Engineering Technology start from $28,000-$33,000 per year. Bachelor degree graduates start at $45,000. Graduates with BS degrees find jobs as manufacturing engineers, tooling designers, process engineers and project managers.

Transfer/Articulation Information: Graduates from SLCC'S AS Manufacturing Engineering Technology program can transfer into WSU's program or work in industry as Machinists, Welders, Composites technicians, CNC programmers, Tool designers, Quality Control Inspectors, and CMM operators.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy 8 – Develop the attitudes and skills for lifelong wellness
General Education required for AS degrees	2-5
Drafting and CAD Fundamentals Students will: • produce drawings that demonstrate competency in AutoCAD and are neat and professional. • demonstrate proficiency with drawing and screen setup: layouts, layers, dimension styles, scale factors, blocks, profiles, and plotting. • demonstrate knowledge of CAD commands and use them appropriately for efficiency and accuracy (EDDT1040).	1

Students will: • demonstrate knowledge of solid modeling tools, creating and defining sketches, 3D features, mating assemblies, design tables, and fabrication and assembly drawings from models. • produce accurate parts, assemblies, and drawings per industry standard. • demonstrate the ability to analyze design intent and process (EDDT2600).	1
Depth in Mechanical Design Students will: • demonstrate knowledge of industrial materials and processes and the principles of material behavior. • demonstrate ability to apply this knowledge in hands-on lab experience with molding, welding, casting and forming. • participate as a member of a design team to create designs and finished products (EDDT2340, EDDT2350)	1
Students will: • demonstrate knowledge of Geometric Dimensioning and Tolerancing symbols and applications of form, function, and tolerances. • produce drawings with correctly applied symbols. • demonstrate understanding of the use of GD&T in automated manufacturing and quality inspection (EDDT2540).	1
Machining Students will: • demonstrate knowledge of safety rules and identify the various machining processes and equipment. • demonstrate competency in the operation of manual lathes, grinders, and mills. • produce precision parts to design specification and demonstrate the ability to use precision measuring equipment (MCCT1500, MCCT1510).	1
BY EMPHASIS AREA	
Production Operations and Control Emphasis	
CNC and CAD/CAM Students will: • demonstrate ability to produce CNC code and select the proper machining process by programming and building projects on CNC mills and lathes • demonstrate knowledge of safety regulation when working in the machine shop. • demonstrate an understanding of tolerance limits and verify that projects meet blueprint requirements (MCCT1600, MCCT1610).	1
Students will: • demonstrate the proper use of CAM software • demonstrate knowledge of post processing • be evaluated on their participation in a concurrent engineering team with other students to design, layout, solid model, CNC program, do tolerance studies, and build a project. • produce project documentation and perform inspection on finished product (MCCT2650).	1,2,5
Related Welding Students will demonstrate basic skills in the fundamentals of welding. (WLD 1005)	1
Welding Emphasis	
Related Welding Students will demonstrate basic skills in the fundamentals of welding.	1

(WLD 1005)	
GMA, FCA, GTA Welding Students will learn theory and skills covering: • Welding safety and first aid. • Gas Metal Arc welding processes. • Flux Core Arc welding process. • Gas Tungsten Arc welding process (MCCT2670).	1
Composite Materials & Production Emphasis	
CNC/CAM for Composites Students will learn theory and skills covering: • Traditional and nontraditional methods for machining organic-matrix and metal matrix composites. • Avoiding damage introduced into composites caused by the machining process. • CNC code and use of CAM software. • Tooling used in plastic and composites manufacturing (MCCT2850).	1
Materials and Properties Students will learn theory and skills covering: • Most common commercial plastics including their additives, fillers, and fibers. • Most common physical tests used to determine material characteristics (MCCT2860).	1
Product Design Students will learn theory and skills covering: • Designing plastic parts utilizing CAD for structural, dimensional, and process evaluation. • Analysis of functional requirements, aesthetic qualities, and cost relationships (MCCT2870).	1

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year MATH 1060 or 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4

Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

NOTE: Physical Science (PS) general education component is satisfied through pre-major coursework.

NOTE: Student transferring to Weber State University should take ECON 1010 as Social Science (SS) and COMM 2110 as Interdisciplinary (ID) distribution courses.

REQUIRED COURSES: (30-33 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1110	Elem Chemistry	4	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1115
CHEM 1115	Elem Chemistry Lab	1	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1110
OR				
CHEM 1210	Gen Chemistry I	4	A	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chemistry Lab I	1	A	MATH 1050 w/C grade or better or appropriate Accuplacer score, Recommended coreq: CHEM 1210
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2210
OR				
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics f/Sci & Eng L I	1	A	MATH 1210. Recommended coreq: PHYS 2210
EDDT 1040	Intro to CAD	3	A	
EDDT 2340	Manufacturing Process	2	F, Sp	EDDT 1040 or concurrently. Coreq: EDDT 2350
EDDT 2350	Manufact Process Lab	1	F, Sp	Coreq: EDDT 2340
EDDT 2540	Geo Dim & Tol	2	Sp	EDDT 1040
EDDT 2600	Modeling w/ SolidWorks	3	F, Sp	EDDT 1040 or CAD experience
MCCT 1500	Manual Machining	2	F	Coreq: MCCT 1510
MCCT 1510	Manual Machining Lab	1	F	Coreq: MCCT 1500

EMPHASIS AREA: (COMPLETE ONE)

PRODUCTION OPERATION AND CONTROL EMPHASIS

COURSE		CR	SEM	PREREQUISITE
MCCT 1600	CNC Machine Theo	2	Sp	Coreq: MCCT 1610
MCCT 1610	CNC Machining Lab	1	Sp	Coreq: MCCT 1600
MCCT 2650	CAD/CAM	2	Sp	EDDT 2540. Recommended coreq: EDDT 2600
WLD 1005	Related Welding	3	A	

WELDING EMPHASIS

COURSE		CR	SEM	PREREQUISITE
WLD 1005	Related Welding	3	A	
MCCT 2670	GMA, FCA, GTA Welding	3	Sp	WLD 1005

COMPOSITE MATERIALS AND PRODUCTION EMPHASIS

COURSE		CR	SEM	PREREQUISITE
MCCT 2850	Plastics & Comp CNC/CAM	3	Sp	MCCT 1500 and 1510
MCCT 2860	Plastic/Comp Mtls & Prop	3	F	CHEM 1110 or 1210 and PHYS 2010 or 2210
MCCT 2870	Plastic/Comp Des & Mfg	3	Sp	EDDT 2600 and MCCT 2860

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
EDDT 1040	3	ENGL 1010	3
EDDT 2340	2	AI	3
EDDT 2350	1	DISTRIBUTION	3
EDDT 2600	3	EMPH COURSE	3
MCCT 1500	2	CHEM	4
MCCT 1510	1	CHEM LAB	1
MATH 1210	4		
Total	**16**	**Total**	**17**
SUMMER TERM**			
FALL SEMESTER		**SPRING SEMESTER**	
ECON 1010	3	EDDT 2540	2
ENGL 2010	3	EMPH COURSE	2-3
PHYS	4	COMMUNICATION	3
PHYS LAB	1	DISTRIBUTION (2)	6
DISTRIBUTION	3	LW	1
EMPH COURSE	3		
Total	**17**	**Total**	**14-15**

**EDDT classes are offered Summer Term as requested by students. Classes taken in summer can reduce the credits required in other semesters or shorten time to acquire the degree.

Advising Notes: Students transferring to Weber State University should take Econ 1010 as their Social Science and COMM 2110 as their Interdisciplinary course.

In addition to the required courses listed above, WSU's Manufacturing Engineering Technology BS degree required the following courses that may also be completed at SLCC before transferring:

COURSE		CR	SEM	PREREQUISITE
EDDT 2160	Statics & Strength of Mat	5	F	MATH 1060 or 1080
WSU Elective:				
EDDT 2700	Adv Solid Works	2	Sp	EDDT 2600 or equivalent experience
EDDT 2710	AD Inventor 3D Model	2	F	AutoCAD Experience

MECHANICAL ENGINEERING TECHNOLOGY – ASSOCIATE OF SCIENCE[CTE] (AS) — 60 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341
General Information, (801) 957-4827
Program Information, (801) 957-4150
www.slcc.edu/drafting
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Instructors – Joel Clarkston, Michael Stenquist

Program Description: Mechanical Engineering Technology - the mechanical engineering technician provides support for design engineers as quality technicians, drafter/designers, and document specialists. Earning an AS degree while focusing on mechanical engineering technology provides students with the CAD/CAM, solid modeling design, and basic machining skills required for placement in the industry as technicians, but is specifically for students wishing to transfer into the mechanical engineering technology bachelor of science degree program at Weber State University.

Career Opportunities: Two year graduates in Mechanical Engineering Technology start at an average of $33,000 per year. Bachelor degree graduates start at $56,000. Graduates with BS degrees find jobs as technical designers, quality engineers, process engineers and project managers.

Transfer/Articulation Information: The degree also provides two years for transfer into the Mechanical Engineering Technology Bachelor of Science at Weber State University.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy 8 – Develop the attitudes and skills for lifelong wellness
General Education required for AS degrees	2, 3, 4, 5
Drafting and CAD Fundamentals Students will: • produce drawings that demonstrate competency in AutoCAD and are neat and professional • demonstrate proficiency with drawing and screen setup: layouts, layers, dimension styles, scale factors, blocks, profiles, and plotting • demonstrate knowledge of CAD commands and use them appropriately for efficiency and accuracy (EDDT1040, EDDT1100)	1
Depth in Mechanical Design Students will:	1

• demonstrate knowledge of industrial materials and processes and the principles of material behavior. • demonstrate ability to apply this knowledge in hands-on lab experience with molding, welding, casting and forming. • participate as a member of a design team to create designs and finished products (EDDT2340, EDDT2350).	
Students will: • demonstrate knowledge of Geometric Dimensioning and Tolerancing symbols and applications of form, function, and tolerances. • produce drawings with correctly applied symbols. • demonstrate understanding of the use of GD&T in automated manufacturing and quality inspection (EDDT2540).	1
Students will: • demonstrate knowledge of solid modeling tools, creating and defining sketches, 3D features, mating assemblies, design tables, and fabrication and assembly drawings from models. • produce accurate parts, assemblies, and drawings per industry standard. • demonstrate the ability to analyze design intent and process (EDDT2600).	1
Machining, and CAD/CAM Students will: • demonstrate knowledge of safety rules and identify the various machining processes and equipment. • demonstrate competency in the operation of lathes, grinders and mills. • produce precision parts to design specification and demonstrate the ability to use precision measuring equipment (MCCT1500, MCCT1510).	1
Students will: • demonstrate the proper use of CAM software • demonstrate knowledge of post processing • be evaluated on their participation in a concurrent engineering team with other students to design, layout, and build a project. • produce project documentation and perform inspection on finished product (MCCT2650).	1, 2, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH1210	Calculus I	4	A	Within the last year MATH 1060 or 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

NOTE: Physical Science (PS) general education component is satisfied through pre-major coursework.

NOTE: Student transferring to Weber State University should take ECON 1010 as Social Science (SS) and COMM 2110 as Interdisciplinary (ID) distribution courses.

REQUIRED COURSES: (28 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1110	Elem Chemistry	4	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1115
CHEM 1115	Elem Chemistry Lab	1	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1110
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics f/Sci & Eng L I	1	A	MATH 1210. Recommended coreq: PHYS 2210
*EDDT 1040	Intro to CAD	3	A	
EDDT 1100	Adv AutoCAD	2	A	EDDT 1040
EDDT 2340	Manufacturing Process	2	F	EDDT 1040 or concurrently. Coreq: EDDT 2350
EDDT 2350	Manufact Process Lab	1	F, Sp	Coreq: EDDT 2340
EDDT 2540	Geo Dim & Tol	2	Sp	EDDT 1040
EDDT 2600	Modeling w/ SolidWorks	3	F, Sp	EDDT 1040 or CAD experience
MCCT 1500	Manual Machining	2	F	Coreq: MCCT 1510
MCCT 1510	Manual Machining Lab	1	F	Coreq: MCCT 1500
MCCT 2650	CAD/CAM	2	Sp	EDDT 2540. Recommended coreq: EDDT 2600

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
EDDT 1040*	3	ENGL 1010	3
EDDT 1100*	2	LW	1
EDDT 2340	2	PHYS 2210	4
EDDT 2350	1	PHYS 2215	1
MCCT 1500	2	AI	3
MCCT 1510	1	DISTRIBUTION	3
MATH 1210	4		
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
CHEM 1110	4	EDDT 2540	2
CHEM 1115	1	MCCT 2650	2
EDDT 2600	3	DISTRIBUTION (3)	9
ENGL 2010	3	CM	3
DISTRIBUTION	3		
Total	**14**	**Total**	**16**

*EDDT 1040 is taught the first half-term (8 weeks) of the semester and EDDT 1100 is taught the second half-term of the semester so students can take both in one semester. Evening classes are generally offered on alternating semesters than those listed or during Summer Term.

Advising Notes: Students transferring to Weber State University should take Econ 1010 as their Social Science and COMM 2110 as their Interdisciplinary course.

In addition to the required courses, Weber State University's Mechanical Engineering Technology BS degree required the following courses that may also be completed at SLCC before transferring:

COURSE		CR	SEM	PREREQUISITE
MATH 1040	Intro Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Acculacer score
PHYS 2220	Physics for Sci&Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2225	Physics for Sci&Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended prereq: PHYS 2220
EDDT 2160	Statics & Strength of Mat	5	F	MATH 1060 or 1080

ENGINEERING DESIGN/DRAFTING TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 64 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341
General Information, (801) 957-4827
Program Information, (801) 957-4150
www.slcc.edu/drafting
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Instructors – Joel Clarkston, Michael Stenquist

Program Description: Engineering Design/Drafting Technology is a profession that encompasses a variety of engineering disciplines that are always in high demand: mechanical, civil, piping, electronics, structural, and industrial. Students develop skills in technical drafting, CAD (Computer Aided Design), and the drafting practices specific to each of these discipline areas. Drafters and designers are an integral part of a project team in every field, developing the drawings and designs for fabrication and construction.

The AAS degree provides, in addition to the certificate, an emphasis in specific discipline areas such as: electromechanical, structural steel detailing, piping, and civil, and depth in CAD areas such as customization, solid modeling, and discipline specific software. Courses covering design theory, manufacturing processes and problem-solving, as well as elective depth courses in related areas provide knowledge and skills that will enhance the students' ability to advance to the level of designer in industry.

Career Opportunities: AAS degree students or students with one year of experience develop their own drawings from design specifications or field sketches and can expect between $15 and $17 to start. Two to four years of work experience will generally raise the employee to the level of designer at salaries from $38,000 to $52,000 per year.

Transfer/Articulation Information: Students who earn an AAS degree in Engineering Design/Drafting Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Estimated Time to Completion: If students follow the sample schedule, time to completion is 18 months

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
General Education Basic communication Writing Human Relations General Education Distribution Quantitative literacy	2,3,5
Drafting and CAD Fundamentals Students will: • produce drawings that demonstrate competency in manual drafting techniques and are neat and professional • demonstrate proficiency with drafting tools • demonstrate understanding of technical terminology used in drafting (EDDT 1010)	1

Students will: • produce drawings that demonstrate competency in AutoCAD and are neat and professional • demonstrate proficiency with drawing and screen setup: layouts, layers, dimension styles, scale factors, blocks, profiles, and plotting • demonstrate knowledge of CAD commands and use them appropriately for efficiency and accuracy. (EDDT 1040, 1100)	1
Students will: • produce flat pattern layouts, mechanical detail and assembly drawings that demonstrate correct use of ANSI standards, datums, and critical dimensions for dimensioning and drawing layout • demonstrate ability to calculate precision fits, tolerances, and allowances at MMC and LMC. • demonstrate ability to select appropriate parts from catalog data. • demonstrate ability to read complex blueprints, notes, detail and assembly documentation with multiple configurations. • Students will demonstrate fundamental knowledge of drafting principles in specialized disciplines: electronic drafting, steel detailing, civil drafting, and pipe drafting (EDDT 1200)	1
Depth in Technical Design • Students will: • demonstrate knowledge of industrial materials and processes and the principles of material behavior. • demonstrate ability to apply this knowledge in hands-on lab experience with molding, casting and forming. • participate as a member of a design team to create designs and finished products (EDDT2340, EDDT2350)	1,2
Students will: • demonstrate knowledge of formulas for calculating static forces, centroid, moment of inertia, bending moment, deflection, stresses, and material strength. • demonstrate ability to apply and manipulate formulas and evaluate results. • demonstrate critical thinking and understanding of the design process (EDDT2160)	1,3
Students will: • demonstrate knowledge of Geometric Dimensioning and Tolerancing symbols and applications of form, function, and tolerances. • produce drawings with correctly applied symbols. • demonstrate understanding of the use of GD&T in automated manufacturing and quality inspection (EDDT2540)	1
Discipline Specific Drafting and Design Students will: • demonstrate proficient competencies in the use of MicroStation commands as well as appropriate application of these functions to civil drawings. • demonstrate knowledge and application of Land Development software in the production of various civil drawings • demonstrate understanding of mapping definitions, geographic terms, survey data and field notes. • produce boundary plans, contour maps, profiles and sections and road alignments consistent with industry standards. • (EDDT1420, EDDT2190)	1
Students will: • produce electronic diagrams, schematics, detail, and assembly drawings per ANSI and industry standards. • demonstrate knowledge of schematic and logic symbols, reference	1

designations, and electronic components (EDDT2180)	
Students will: • demonstrate ability to apply formulas and standards of the AISC manual to structural design requirements. • produce steel fabrication drawings and layouts consistent with industry standards. • demonstrate knowledge of symbols, terminology, and industry requirements associated with structural steel drafting (EDDT2240)	1
Students will: • demonstrate understanding of piping definitions, standard terms, symbols, and specifications and extract data from vendor catalogs to draw piping components and equipment. • produce piping flow diagrams, site plans, elevations, and spool drawings per industry standards (EDDT2360)	1
Students will: • demonstrate knowledge of SolidWorks solid modeling tools, creating and defining sketches, 3D features, mating assemblies, design tables, and fabrication and assembly drawings from models. • produce accurate parts, assemblies, and drawings per industry standard. • demonstrate the ability to analyze design intent and process (EDDT2600)	1
Elective Courses • Depth in Software Applications • Students will learn AutoCAD customization for specific user needs (ARCH2330)	1
Students will: • demonstrate proficient competencies in the use of advanced MicroStation design tools and drawing management techniques. • Demonstrate ability to create, import and manage seed and reference files. • 3D modeling (EDDT2420)	1
Students will: • demonstrate knowledge of advanced design techniques and criteria for design. • utilize CosmosWorks and other evaluation tools to analyze mechanical designs (EDDT 2700)	1
Students will: • demonstrate ability to create parts and assemblies in AutoDesk Inventor. • produce parts and drawings per industry standards • (EDDT 2710)	1
Depth in Structural/Civil Discipline Areas • Architectural drawing and modeling (ARCH2310, ARCH2350).	1
• Fundamentals of surveying field techniques (SVT1110, SVT1030)	1
• Applied survey drafting (SVT2290)	1
Depth in Mechanical/Manufacturing Discipline Areas Students will: • demonstrate knowledge of safety rules and identify the various machining processes and equipment. • demonstrate competency in the operation of lathes, grinders and mills. • produce precision parts to design specification and demonstrate the ability to use precision measuring equipment (MCCT1500, 1510)	1
Students will: • demonstrate ability to produce CNC code and select the proper machining process by programming and building projects on CNC mills and lathes	1

• demonstrate knowledge of safety regulation when working in the machine shop. • demonstrate an understanding of tolerance limits and verify that projects meet blueprint requirements (MCCT1600, 1610)	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1060	Trigonometry	3	A	RDG 0990; within the last year MATH 1050 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

NOTE: Students who may want to pursue an AS degree in the future should take either LE 1220, as it meets the Social Science (SS), or COMM 2110, as it meets the Interdisciplinary (ID) requirement.

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (37 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*EDDT 1010	Tech Drafting I	3	A	
*EDDT 1040	Intro to CAD	3	A	
EDDT 1100	Adv AutoCAD	2	A	EDDT 1040
EDDT 1200	Tech Drafting II	4	A	EDDT 1010 and EDDT 1100 (may be taken concurrently)
EDDT 1420	Basic MicroStn	2	A	
EDDT 2160	Statics & Strgth of Mat	5	F	MATH 1060 or 1080
EDDT 2180	Elec Drafting	3	F	EDDT 1100
EDDT 2190	Civil Drafting	2	F, Sp	EDDT 1040 and 1420
EDDT 2240	Steel Detailing	3	F	EDDT 1040 and MATH 1010
EDDT 2340	Manufacturing Process	2	F, Sp	EDDT 1040 (may be taken concurrently) Coreq: EDDT 2350
EDDT 2350	Manufac Process Lab	1	F, Sp	Coreq: EDDT 2340
EDDT 2360	Pipe Drafting	2	Sp	EDDT 1040 or 1420
EDDT 2540	Geo Dimen Tol	2	Sp	EDDT 1040
EDDT 2600	Modeling w/ SolidWorks	3	F, Sp	EDDT 1040 or CAD experience

*May be waived for equivalent experience or course.

ELECTIVE COURSES: (SELECT 12 CREDITS FROM THE FOLLOWING)

Elective courses provide additional depth in specific discipline areas of design/drafting. Students should select electives from the area in which they want specialization.

GENERAL ELECTIVES

COURSE		CR	SEM	PREREQUISITE
EDDT 2990	Special Topics	1-5	A	Instructor approval
ARCH 2330	CAD Customization	3	Sp	ARCH 1310 or EDDT 1100 or Instructor approval

MECHANICAL ELECTIVES

COURSE		CR	SEM	PREREQUISITE
EDDT 2700	Adv Solid Works	2	F, Sp	EDDT 2600 or equivalent experience
EDDT 2710	AD Inventor 3D Modeling	2	F	AutoCAD experience
MCCT 1500	Manual Machining	2	F	Coreq: MCCT 1510
MCCT 1510	Manual Mach Lab	1	F	Coreq: MCCT 1500
MCCT 1600	CNC Machine Theo	2	Sp	Coreq: MCCT 1610
MCCT 1610	CNC Machining Lab	1	Sp	Coreq: MCCT 1600
MCCT 2650	CAD/CAM	2	Sp	EDDT 2540 or conc. & EDDT 2600

STRUCTURAL/CIVIL ELECTIVES

COURSE		CR	SEM	PREREQUISITE
ARCH 2310	Model/Rend/Animation	3	F	ARCH 1310 or EDDT 1040
ARCH 2350	Adv Architectural CAD	3	Sp	
EDDT 2420	Adv MicroStation	2	Sp	EDDT 1420
SVT 1110	Surveying Math I	4	F	MATH 1060 or appropriate Accuplacer score
SVT 1030	Survey Field Tech	3	Sp	SVT 1110 or MATH 1060
SVT 2290	App Survey Draft	3	Sp	EDDT 2190 and SVT 1030

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
CM	3	EDDT 1200	4
EDDT 1010	3	EDDT 1420*	2
EDDT 1040*	3	EDDT 2190*	2
EDDT 1100*	2	EDDT 2340	2
DISTRIBUTION	3	EDDT 2350	1
		EDDT 2540	2
		MATH 1060	3
Total	**14**	**Total**	**16**

SUMMER SEMESTER**

FALL SEMESTER		SPRING SEMESTER	
EDDT 2160	5	EDDT 2240	3
EDDT 2180	3	EDDT 2360	2
EDDT 2600	3	EDDT ELEC	9
EDDT ELEC	3	HR	3
ENGL 1010	3		
Total	**17**	**Total**	**17**

*EDDT 1040 is taught the first half-term (8 weeks) of the semester and EDDT 1100 is taught the second half-term of the semester so students can take both in one semester. EDDT 1420 is taught the first half-term (8 weeks) of the semester and EDDT 2190 is taught the second half-term of the semester so students can take both in one semester.

**EDDT classes are offered summer term as requested by students. Classes taken summer can reduce the credit hours required in other semesters or shorten the time to acquire the degree.

***EDDT evening classes are generally offered on alternating semesters than those listed or in summer term.

Advising Notes: All courses required in the one-year Certificate of Completion in Engineering Drafting Technology are also required in the AAS degree. Many students earn the certificate and begin work then return in the evening program to earn the AAS degree for advancement and higher wages.

ENGINEERING DRAFTING AND MANUFACTURING TECHNOLOGY – CERTIFICATE OF COMPLETION [CTE]

29 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341
General Information, (801) 957-4827
Program Information, (801) 957-4150
www.slcc.edu/drafting
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Instructors – Joel Clarkston, Michael Stenquist

Program Description: Engineering Design/Drafting Technology is a profession that encompasses a variety of engineering disciplines that are always in high demand: mechanical, civil, piping, electronics, structural, and industrial. Students develop skills in technical drafting, CAD (Computer Aided Design), and the drafting practices specific to each of these discipline areas. Drafters and designers are an integral part of a project team in every field, developing the drawings and designs for fabrication and construction.

STUDENT ORGANIZATIONS
Skills USA - All students enrolled in the engineering design/drafting technology program are members of Skills USA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, social, and employability skills.

Estimated Time to Completion: If students follow the sample schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
General Education Basic Communication Human Relations Quantitative Literacy	2, 3, 5
Drafting and CAD Fundamentals Students will: • produce drawings that demonstrate competency in manual drafting techniques and are neat and professional • demonstrate proficiency with drafting tools • demonstrate understanding of technical terminology used in drafting (EDDT 1010).	1
Students will: • produce drawings that demonstrate competency in AutoCAD and are neat and professional • demonstrate proficiency with drawing and screen setup: layouts, layers, dimension styles, scale factors, blocks, profiles, and plotting • demonstrate knowledge of CAD commands and use them appropriately for efficiency and accuracy (EDDT 1040, 1100).	1
Students will: • produce flat pattern layouts, mechanical detail and assembly drawings that demonstrate correct use of ANSI standards, datums, and critical	1

dimensions for dimensioning and drawing layout • demonstrate ability to calculate precision fits, tolerances, and allowances at MMC and LMC. • demonstrate ability to select appropriate parts from catalog data. • demonstrate ability to read complex blueprints, notes, detail and assembly documentation with multiple configurations. • Students will demonstrate fundamental knowledge of drafting principles in specialized disciplines: electronic drafting, steel detailing, civil drafting, and pipe drafting (EDDT 1200).	
Depth in Discipline Specific Drafting Electives (Select 8 credits) Students will: • demonstrate proficient competencies in the use of MicroStation commands as well as appropriate application of these functions to civil drawings. • demonstrate knowledge and application of Land Development software in the production of various civil drawings • demonstrate understanding of mapping definitions, geographic terms, survey data and field notes. • produce boundary plans, contour maps, profiles and sections and road alignments consistent with industry standards (EDDT 1420, 2190).	1
Students will: • produce electronic diagrams, schematics, detail, and assembly drawings per ANSI and industry standards. • demonstrate knowledge of schematic and logic symbols, reference designations, and electronic components (EDDT 2180).	1
Students will: • demonstrate ability to apply formulas and standards of the AISC manual to structural design requirements. • produce steel fabrication drawings and layouts consistent with industry standards. • demonstrate knowledge of symbols, terminology, and industry requirements associated with structural steel drafting (EDDT 2240).	1
Students will: • demonstrate knowledge of industrial materials and processes and the principles of material behavior. • demonstrate ability to apply this knowledge in hands-on lab experience with molding, casting and forming. • participate as a member of a design team to create designs and finished products (EDDT 2340, 2350).	1,2
Students will: • demonstrate understanding of piping definitions, standard terms, symbols, and specifications and extract data from vendor catalogs to draw piping components and equipment. • produce piping flow diagrams, site plans, elevations, and spool drawings per industry standards (EDDT 2360).	1
Students will: • demonstrate knowledge of Geometric Dimensioning and Tolerancing symbols and applications of form, function, and tolerances. • produce drawings with correctly applied symbols. • demonstrate understanding of the use of GD&T in automated manufacturing and quality inspection (EDDT 2540).	1
Students will: • demonstrate knowledge of SolidWorks solid modeling tools, creating and defining sketches, 3D features, mating assemblies, design tables, and fabrication and assembly drawings from models. • produce accurate parts, assemblies, and drawings per industry standard.	1

• demonstrate the ability to analyze design intent and process (EDDT 2600).	
Students will: • demonstrate ability to create parts and assemblies in AutoDesk Inventor. • produce parts and drawings per industry standards (EDDT 2710).	1

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

NOTE: Students who may want to pursue an AS degree in the future should take either LE 1220, as it meets the Social Science (SS), or COMM 2110, as it meets the Interdisciplinary (ID) requirement.

REQUIRED COURSES: (12 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*EDDT 1010	Tech Drafting I	3	A	
*EDDT 1040	Intro to CAD	3	A	
EDDT 1100	Adv AutoCAD	2	A	EDDT 1040
EDDT 1200	Tech Drafting II	4	A	EDDT 1010 and EDDT 1100 (may be taken concurrently)

ELECTIVE COURSES: (SELECT 8 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
EDDT 1420	Basic MicroStn	2	A	
EDDT 2180	Elec Drafting	3	F	EDDT 1100
EDDT 2190	Civil Drafting	2	F, Sp	EDDT 1040 and 1420
EDDT 2240	Steel Detailing	3	F	EDDT 1040 and MATH 1010
EDDT 2340	Manufacturing Process	2	F, Sp	EDDT 1040 (may be taken concurrently) Coreq: EDDT 2350
EDDT 2350	Manufac Process Lab	1	F, Sp	Coreq: EDDT 2340
EDDT 2360	Pipe Drafting	2	Sp	EDDT 1040 or 1420
EDDT 2540	Geo Dimen Tol	2	Sp	EDDT 1040
EDDT 2600	Modeling w/ SolidWorks	3	F, Sp	EDDT 1040 or CAD experience
EDDT 2710	AS Inventor 3D Modeling	3	F	AutoCAD experience

*May be waived for equivalent experience or course.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CM	3	EDDT 1200	4
EDDT 1010	3	ELEC	8
EDDT 1040*	3	HR	2-3
EDDT 1100*	2		
MATH 1010	4		
Total	**15**	**Total**	**14-15**

*EDDT 1040 is taught the first half-term (8 weeks) of the semester and EDDT 1100 is taught the second half-term of the semester so students can take both in one semester. EDDT 1420 is taught the first half-term (8 weeks) of the semester and EDDT 2190 is taught the second half-term of the semester so students can take both in one semester.

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes or preparation. Those prerequisites must be satisfied before the designated class may be taken and may require extra time to complete the program. Students should check the semester class schedule for the day/evening availability and modifications caused by varying enrollment.

Students acquiring an Associate of Science Degree with a pre-major in General Studies may simultaneously earn a Certificate in Engineering Drafting Technology by selecting the above courses to fulfill the elective component of the AS degree.

EDDT classes are offered summer term as requested by students. Classes taken summer can reduce the credit hours required in other semesters or shorten the time to acquire the degree.

EDDT evening classes are generally offered on alternating semesters than those listed or in summer term.

MACHINING CNC/CAM TECHNOLOGY – CERTIFICATE OF COMPLETION [CTE] 30 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341
General Information, (801) 957-4827
Program Information, (801) 957-4150
www.slcc.edu/drafting
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Instructors – Joel Clarkston, Michael Stenquist

Program Description: Machining CNC/CAM Technology - trained machinists are continuously needed in engineering, manufacturing and fabrication companies and there are not enough new workers available to fill the entry-level positions. This 30-week, 31-credit hour curriculum provides students with the manual and CNC skills required for work as an entry-level machinist, equivalent to 6 months of on-the-job training. The two-semester certificate of completion in machining technology provides the student with the entry-level skills required for work as a machinist in industry and includes: manual and CNC (Computer Numerical Control) machining, CAD (Computer Assisted Design), CAM (Computer Assisted Manufacturing), Geometric Dimensioning and Tolerancing, and manufacturing processes.

Career Opportunities: Entry-level wages for machinists start between $10 and $12 per hour and a machinist with two to five years of work experience will earn between $28,000 and $50,000 per year.

Estimated Time to Completion: If students follow the sample schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
General Education Basic Communication Human Relations Quantitative Literacy	2,3,5
Machining and CNC Skills 1. Students will: • demonstrate knowledge of safety rules and identify the various machining processes and equipment. • produce precision parts to design specification and demonstrate the ability to use precision measuring equipment. • demonstrate competency in the operation of lathes, grinders and mills (MCCT 1500, 1510).	1
2. Students will: • produce CNC code and select the proper machining process by programming and building projects on CNC mills and lathes • demonstrate understanding of tolerance limits for each machining process and verify that projects meet blueprint requirements (MCCT 1600,1610).	1
Related Cad and Design Knowledge and Skills 3. Students will: • produce drawings that demonstrate competency in AutoCAD and are neat and professional	1

• demonstrate proficiency with drawing and screen setup: layouts, layers, dimension styles, scale factors, blocks, profiles, and plotting • demonstrate knowledge of CAD commands and use them appropriately for efficiency and accuracy (EDDT 1040).	
4. Students will: • demonstrate knowledge of solid modeling tools, creating and defining sketches, 3D features, mating assemblies, design tables, and fabrication and assembly drawings from models. • produce accurate parts, assemblies, and drawings per industry standard. • demonstrate the ability to analyze design intent and process (EDDT 2600).	1
5. Students will: • demonstrate knowledge of Geometric Dimensioning and Tolerancing symbols and applications of form, function, and tolerances. • produce drawings with correctly applied symbols. • demonstrate understanding of the use of GD&T in automated manufacturing and quality inspection (EDDT 2540).	1
Related Manufacturing Knowledge and Skills 6.Students will: • demonstrate knowledge of industrial materials and processes and the principles of material behavior. • demonstrate ability to apply this knowledge in hands-on lab experience with molding, casting and forming. • participate as a member of a design team to create designs and finished products (EDDT 2340, 2350).	1
7. Students will learn basic principles of arc and acetylene welding. (WLS 1005)	1,2
CAD/CAM and Teamwork 8. Students will: • demonstrate the proper use of CAM software • demonstrate knowledge of post processing • be evaluated on their participation in a concurrent engineering team with other students to design, layout, and build a project. • produce project documentation and perform inspection on finished product (MCCT 2650).	1

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score
OR				
IND 1120	Math for Industry	3	F, Sp	MATH 0900 w/C grade or better

NOTE: MATH 1010 is a prerequisite for the math courses required in the AS degree for students who may want to continue.

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

NOTE: COMM 2110 will also meet the Interdisciplinary (ID) requirement for students who may want to continue toward as AS transfer degree studying Manufacturing Engineering Technology or Mechanical Engineering Technology.

REQUIRED COURSES: (22 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*EDDT 1040	Intro to AutoCAD	3	A	
EDDT 2340	Manufacturing Process	2	F, Sp	EDDT 1040 or concurrently. Coreq: EDDT 2350
EDDT 2350	Manufacturing Lab	1	F, Sp	Coreq: EDDT 2340
EDDT 2540	Geo Dimen & Tol	2	Sp	EDDT 1040
EDDT 2600	Modeling w/ SolidWorks	3	F, Sp	EDDT 1040 or CAD experience
MCCT 1500	Manual Machining	2	F	Coreq: MCCT 1510
MCCT 1510	Man. Machining Lab	1	F	Coreq: MCCT 1500
MCCT 1600	CNC Machine Theo	2	Sp	Coreq: MCCT 1610
MCCT 1610	CNC Machining Lab	1	Sp	Coreq: MCCT 1600
MCCT 2650	CAD/CAM	2	Sp	EDDT 2540. Recommended coreq: EDDT 2600
WLD 1005	Related Welding	3	A	

*May be waived for equivalent experience or course.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
EDDT 1040*	3	HR	2-3
EDDT 2600*	3	EDDT 2540	2
EDDT 2340	2	CM	3
EDDT 2350	1	MCCT 2650	2
MCCT 1500	2	MCCT 1600	2
MCCT 1510	1	MCCT 1610	1
MATH 1010	4	WLD 1005	3
OR			
IND 1120	3		
Total	**15-16**	**Total**	**15-16**

*EDDT 1040 is taught the first half-term (8 weeks) of the semester and EDDT 2600 is taught the second half-term of the semester so students can take both in one semester.

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes or preparation. Those prerequisites must be satisfied before the designated class may be taken and may require extra time to complete the program. Students should check the semester class schedule for the day/evening availability and modifications caused by varying enrollment.

Students acquiring an Associate of Science Degree with a pre-major in General Studies may simultaneously earn a Certificate in Machining CNC/CAM Technology by selecting the above courses to fulfill the elective component of the AS degree.

EDDT classes are offered summer term as requested by students. Classes taken summer can reduce the credit hours required in other semesters or shorten the time to acquire the degree.

EDDT evening classes are generally offered on alternating semesters than those listed or in summer term.

ENGLISH – ASSOCIATE OF ARTS (AA) 63 credits minimum

English Department
Taylorsville Redwood Campus, AAB (IAB) 165
General Information, (801) 957-4073
Program Information, (801) 957-4020
www.slcc.edu/english
Academic Advisor, AAB (IAB) 237B, (801) 957-3866

English Associate Dean: Stephen Ruffus, AAB (IAB) 165M (801) 957-4375

Program Faculty:
Professors – Alma McKertich
Associate Professors – Sue Briggs, Lisa Bickmore, Louise Bown, James Celestino, Ron Christiansen, Jennifer Courtney, Mary Jayne Davis, George Ellington, Allison Fernley, Brent Green, Melissa Helquist, Gary Howard, Dean Huber, Lynn Kilpatrick, Cristin Longhurst, Stephanie Maenhardt, Andrea Malouf, Kathy McIntyre, Liz Montague, Jason Pickavance, Tiffany Rousculp, Stephen Ruffus, Carol Sieverts, Mildred Sparks, Brittany Stephenson, Elisa Stone, Jerri Harwell
Assistant Professors – Brandon Alva, Alena Balmforth, Nathan Cole, Jerri A. Harwell, Charlotte Howe, Justin Jory, Jamie McBeth-Smith, Jason Roberts, Michael White
Instructors: Gordon Dunne, Ana Fillingim, Maria Griffith, Kathleen Johnston, Jason Roberts

Program Description: The English Department provides courses involving reading, writing and critical thinking, ranging from introductory to more advanced explorations of the role of language in society, in academic studies and in our own personal and professional experiences. We emphasize teaching students to take responsibility for how they communicate in a variety of contexts (from academic, to imaginative, to work-related) and for how language may be used to achieve results. Courses teach intellectual inquiry, expose students to diverse reading and writing tasks, and address how power may be won or lost through the medium of words. A departmental emphasis is also available for students seeking an A.A. or an A.S. in English. Various courses of study are available for students to choose: Generalist, Creative Writing, Literature, Writing Studies, English Language Studies, or Cultural Studies.

Most college degree and certificate programs require a two-course sequence of ENGL 1010, followed by ENGL 2010 or ENGL 2100.

ENGL 1030 may fulfill the General Education Human Relations (HR) requirement for SLCC AAS degrees.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, ENGL 2600, ENGL 2610, ENGL 2630, ENGL 2710, ENGL 2740, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 will fulfill the General Education Humanities (HU) requirement.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2610, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 fulfill the Diversity (DV) requirement at SLCC.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2280, ENGL 2610, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 may fulfill the diversity requirement at many institutions.

The English Department also provides electives such as ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, and ENGL 2890 for students seeking to explore various kinds of writing.

Each semester several ENGL 1010 classes revolve around the FOOD theme. This course meets all the requirements for ENGLISH 1010 and has a food theme. Food defines who we are and connects us with other people, cultures, and the environment. It also provides us with rich opportunities for reading, thinking, analyzing, and composing.

The Student Writing Center
The Student Writing Center (SWC) offers SLCC writers a place to talk about their writing or reading with a trained writing advisor. Faculty writing advisors are instructors who teach in the writing program; peer writing advisors are SLCC students who have been recommended by faculty and have received extensive training in writing advising.

All writers at SLCC (undergraduates, staff, and faculty) are welcome to bring their work to the SWC. The advisors are able to work with all in-class writing and other writing projects such as scholarship applications, memos and reports. In the SWC, the writing advisors assist in analyzing the writing situation or project, developing a writing plan, undoing writer's "blocks" and providing feedback to the writer. Computers are available in AD 230, as is assistance with word processing.

In the SWC, one-on-one or small group consultations are available and writers are encouraged to meet with a writing advisor at any stage in their writing project (from brainstorming to final editing). The SWC also holds workshops on reading/writing topics, demonstrates in-class peer group workshopping and distributes other writing-related materials (including materials on documentation and research methods). A standard consultation is a 20- to 30-minute meeting between a writer and a writing advisor (small group appointments also are available). These meetings can take place at any stage in the writing process from brainstorming to final editing. Writers can drop in any time the center is open to make an appointment; they should bring details about the assignment, along with notes and any drafts. On the Taylorsville Redwood Campus, the SWC is located at AD 218. At South City Campus, writing tutors are available in the Learning Center, N316. At Jordan Campus, tutors are available in HTC 102.

The SLCC Community Writing Center
Located at 210 East 400 South, Salt Lake City, the SLCC Community Writing Center provides writing assistance, short term workshops and writing groups to all Salt Lake area adults. For information, call (801) 957-2192.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: Students are responsible for taking the ACT or the College Placement Test before the semester (at least one month before) they wish to enroll in ENGL 1010. Students who need to take preparatory classes in English to meet the requirement of any course should plan on extra time to complete a degree. It also is the student's responsibility to examine each course description for details of prerequisite classes. Prerequisites must be completed with a minimum grade of C. Students also must receive a minimum grade of C (not C-) in all English classes counted toward the degree

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Rhetorical knowledge	2 – Communicate Effectively
2. Critical thinking, reading, and writing	4 – Think Critically
3. Process knowledge	4 – Think Critically
4. Genre knowledge	4 – Think Critically
5. Research skills	2 – Communicate Effectively

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing(EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing(EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing(EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning(QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics(QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra(QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE	CR	SEM	PREREQUISITE

ECON 1740	Econ History of US(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:
Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: The following courses will fulfill the General Education Distribution Area requirement in Humanities: ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, ENGL 2600, ENGL 2610, ENGL 2710, ENGL 2740, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850. If one of these courses is selected to fill the General Education Humanities (HU) requirement, it may also count toward the 21 credit hours of English required in the Major Course Requirements and English electives. If this option is selected, student must also complete an additional 3 credit hours in the non-English Electives area.

LANGUAGE (LN) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
LANG 1020	(LN)	5	A	LANG 1010

NOTE: *LANG prefix does not exist—that prefix would be replaced by the prefix for the individual language chosen: ARB, CHI, FRN, GER, ITL,JPN, NAV, POR, RUS, SAM, SPN, TNG

REQUIRED COURSES: (SELECT 3 OF THE 4 COURSES)

COURSE		CR	SEM	PREREQUISITE
ENGL 1200	Intro to Linguistics	3	A	ENGL 1010 w/C grade or better
ENGL 2250	Intro/Imaginative Wrtg (HU)	3	A	
ENGL 2600	Crit Intro Literature (HU)	3	A	
ENGL 2700	Intro to Critical Theory	3	A	ENGL 2600

ENGLISH ELECTIVES: (SELECT 9 CREDITS FROM AMONG ENGLISH ELECTIVES)

ENGLISH EMPHASIS WITH CREATIVE WRITING
Major course ENGL 2250 suggested

COURSE		CR	SEM	PREREQUISITE
ENGL 2260	Intro to Writing Poetry(HU)	3	Sp	
ENGL 2270	Intro to Writing Fiction(HU)	3	Sp	
ENGL 2280	Intro Creative Nonfict(HU)	3	F	
ENGL 2290	Intro Novel Writing	3	F	
ENGL 2900	Special Topics	3	F, Sp	

ENGLISH EMPHASIS WITH LITERATURE
Major course ENGL 2600, ENGL 2700 suggested*

COURSE		CR	SEM	PREREQUISITE
ENGL 2300	Intro to Shakespeare	3	Sp	ENGL 1010 w/C grade or better
ENGL 2330	Children's Literature	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2610	Diversity in Am Lit(HU,DV)	3	A	ENGL 1010 w/C grade or better
ENGL 2630	Global Lit(HU)	3	F	

ENGL 2710	Intro to Folklore(HU)	3	A	
ENGL 2810	Native Am Lit &Exp(HU,DV)	3	Sp	ENGL 1010 w/C grade or better
ENGL 2900	Special Topics	1-3	A	

*Choose ENGL 2600 and ENGL 2700 for the major course requirements

ENGLISH EMPHASIS WITH WRITING STUDIES

COURSE		CR	SEM	PREREQUISITE
ENGL 1800	Digital Media Essentials	4	A	
ENGL 1810	Writing Cntr Theory/Prac	3	F	
ENGL 1820	Publication Studies	3	Sp	
ENGL 1910	WCC Capstone	1	A	Department approval
ENGL 2100	Technical Writing(EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2500	Grammar & Style	3	F, Sp	
ENGL 2900	Special Topics	3	A	

For non-English electives, see the Writing Certificate electives.

ENGLISH EMPHASIS WITH ENGLISH LANGUAGE STUDIES

Major course ENGL 1200 suggested

COURSE		CR	SEM	PREREQUISITE
ENGL 2030	Language in Society	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2500	Grammar & Style	3	F, Sp	
ENGL 2900	Special Topics	1-3	A	

ENGLISH EMPHASIS WITH CULTURAL STUDIES

COURSE		CR	SEM	PREREQUISITE
ENGL 2030	Language in Society(HU,DV)	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2610	Diversity in Am Lit(HU,DV)	3	A	ENGL 1010 w/C grade or better
ENGL 2760	Gender Cultral Stdy (HU,DV)	3	A	
ENGL 2810	Native Am Lit &Exp(HU,DV)	3	Sp	ENGL 1010 w/C grade or better
ENGL 2830	Div Women Writers(HU,DV)	3	F, Sp	
ENGL 2850	Intro to Queer Studies(HU,DV)	3	A	

ELECTIVE COURSES: (3 CREDITS)

Complete 3 credits from the English Department Offerings or from any college course numbered 1000 or above.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	ENGL 2010	3
LANG 1020	5	ENGL REQ	3
DISTRIBUTION	3	AI	3
STUDENT CHOICE	3	DISTRIBUTION	3
HLAC	1	QL	3-4
Total	**15**	**Total**	**15-16**

FALL SEMESTER		SPRING SEMESTER	
ENGL REQ	3	ENGL REQ	3
ENGL EMPHASIS	3	ENGL EMPHASIS	3
ENGL EMPAHSIS	3	DISTRIBUTION	3
DISTRIBUTION (3)	9	ELEC	3
Total	**18**	**Total**	**15**

DEPARTMENTAL OFFERINGS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 1030	Writing in Prof (HR)	3	F	ENGL 1010
ENGL 1050	Rdg Contmp.Cltr(HU,DV)	3	A	
ENGL 1100	Div/Pop US Lit(HU,DV)	3	A	
ENGL 1200	Intro Linguistics	3	A	ENGL 1010 w/C grade or better
ENGL 1800	Digital Media Essentials	4	A	
ENGL 1810	Writing Cntr Theory/Prac	3	F	

ENGL 1820	Publication Studies	3	Sp	
ENGL 1900	Special Studies	1-3	A	ENGL 1010 and instructor approval
ENGL 2000	English CO-OP Educ	2-4	A	Instructor approval
ENGL 2010	Intermed Writing(EN)	3	A	ENGL 1010 w/C or better
ENGL 2030	Lang in Society (HU,DV)	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2250	Intro/Imaginative Wrtg(HU)	3	A	
ENGL 2260	Intro to Writing Poetry(HU)	3	Sp	
ENGL 2270	Intro to Writing Fiction(HU)	3	Sp	
ENGL 2280	Intro Creative Nonfictn(HU)	3	F	
ENGL 2290	Intro Novel Writing	3	F	
ENGL 2300	Intro to Shakespeare	3	Sp	ENGL 1010 w/C grade or better
ENGL 2330	Children's Literature	3	A	ENGL 1010 w/C grade or better
ENGL 2500	Grammar & Style	3	F, Sp	
ENGL 2600	Crit Intro Literature (HU)	3	A	
ENGL 2610	Diversity in Am Lit (HU,DV)	3	A	ENGL 1010 w/C grade or better
ENGL 2630	Global Lit	3	F	
ENGL 2700	Intro to Critical Theory	3	F, Sp	ENGL 2600
ENGL 2710	Intro to Folklore (HU)	3	A	
ENGL 2740	Intro Women's Stdy (HU)	3	F, Sp	
ENGL 2760	Gender Cultral Stdy(HU,DV)	3	Sp	
ENGL 2810	Native Am Lit &Exp(HU,DV)	3	Sp*	ENGL 1010 w/C or better
ENGL 2830	Div Women Writers(HU,DV)	3	F, Sp	
ENGL 2850	Intro to Queer Studies(HU,DV)	3	A	
HUMA 2130	Philosophy in Lit (ID)	3	F, Sp	

*Course taught Spring semesters in odd years

NOTE: Acceptance of English courses varies within English programs at various institutions. Meet with an advisor to plan which English courses are best suited for the program to which you plan to transfer.

ENGLISH – ASSOCIATE OF SCIENCE (AS) 61 credits minimum

English Department
Taylorsville Redwood Campus, AAB (IAB) 165
General Information, (801) 957-4073
Program Information, (801) 957-4020
www.slcc.edu/english
Academic Advisor, AAB (IAB) 237B, (801) 957-3866

English Associate Dean: Stephen Ruffus, AAB (IAB) 165M (801) 957-4375

Program Faculty:
Professors – Alma McKertich
Associate Professors – Sue Briggs, Lisa Bickmore, Louise Bown, James Celestino, Ron Christiansen, Jennifer Courtney, Mary Jayne Davis, George Ellington, Allison Fernley, Brent Green, Melissa Helquist, Gary Howard, Dean Huber, Lynn Kilpatrick, Cristin Longhurst, Stephanie Maenhardt, Andrea Malouf, Kathy McIntyre, Liz Montague, Jason Pickavance, Tiffany Rousculp, Stephen Ruffus, Carol Sieverts, Mildred Sparks, Brittany Stephenson, Elisa Stone, Jerri Harwell
Assistant Professors – Brandon Alva, Alena Balmforth, Nathan Cole, Jerri A. Harwell, Charlotte Howe, Justin Jory, Jamie McBeth-Smith, Jason Roberts, Michael White
Instructors: Gordon Dunne, Ana Fillingim, Maria Griffith, Kathleen Johnston, Jason Roberts

Program Description: The English Department provides courses involving reading, writing and critical thinking, ranging from introductory to more advanced explorations of the role of language in society, in academic studies and in our own personal and professional experiences. We emphasize teaching students to take responsibility for how they communicate in a variety of contexts (from academic, to imaginative, to work-related) and for how language may be used to achieve results. Courses teach intellectual inquiry, expose students to diverse reading and writing tasks, and address how power may be won or lost through the medium of words. A departmental emphasis is also available for students seeking an A.A. or an A.S. in English. Various courses of study are available for students to choose: Generalist, Creative Writing, Literature, Writing Studies, English Language Studies, or Cultural Studies.

Most college degree and certificate programs require a two-course sequence of ENGL 1010, followed by ENGL 2010 or ENGL 2100.

ENGL 1030 may fulfill the General Education Human Relations (HR) requirement for SLCC AAS degrees.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, ENGL 2600, ENGL 2610, ENGL 2630, ENGL 2710, ENGL 2740, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 will fulfill the General Education Humanities (HU) requirement.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2610, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 fulfill the Diversity (DV) requirement at SLCC.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2280, ENGL 2610, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 may fulfill the diversity requirement at many institutions.

The English Department also provides electives such as ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, and ENGL 2890 for students seeking to explore various kinds of writing.

Each semester several ENGL 1010 classes revolve around the FOOD theme. This course meets all the requirements for ENGLISH 1010 and has a food theme. Food defines who we are and connects us with other people, cultures, and the environment. It also provides us with rich opportunities for reading, thinking, analyzing, and composing.

The Student Writing Center
The Student Writing Center (SWC) offers SLCC writers a place to talk about their writing or reading with a trained writing advisor. Faculty writing advisors are instructors who teach in the writing program; peer writing advisors are SLCC students who have been recommended by faculty and have received extensive training in writing advising.

All writers at SLCC (undergraduates, staff, and faculty) are welcome to bring their work to the SWC. The advisors are able to work with all in-class writing and other writing projects such as scholarship applications, memos and reports. In the SWC, the writing advisors assist in analyzing the writing situation or project, developing a writing plan, undoing writer's "blocks" and providing feedback to the writer. Computers are available in AD 230, as is assistance with word processing.

In the SWC, one-on-one or small group consultations are available and writers are encouraged to meet with a writing advisor at any stage in their writing project (from brainstorming to final editing). The SWC also holds workshops on reading/writing topics, demonstrates in-class peer group workshopping and distributes other writing-related materials (including materials on documentation and research methods). A standard consultation is a 20- to 30-minute meeting between a writer and a writing advisor (small group appointments also are available). These meetings can take place at any stage in the writing process from brainstorming to final editing. Writers can drop in any time the center is open to make an appointment; they should bring details about the assignment, along with notes and any drafts. On the Taylorsville Redwood Campus, the SWC is located at AD 218. At South City Campus, writing tutors are available in the Learning Center, N316. At Jordan Campus, tutors are available in HTC 102.

The SLCC Community Writing Center
Located at 210 East 400 South, Salt Lake City, the SLCC Community Writing Center provides writing assistance, short term workshops and writing groups to all Salt Lake area adults. For information, call (801) 957-2192.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: Students are responsible for taking the ACT or the College Placement Test before the semester (at least one month before) they wish to enroll in ENGL 1010. Students who need to take preparatory classes in English to meet the requirement of any course should plan on extra time to complete a degree. It also is the student's responsibility to examine each course description for details of prerequisite classes. Prerequisites must be completed with a minimum grade of C. Students also must receive a minimum grade of C (not C-) in all English classes counted toward the degree

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Rhetorical knowledge	2 – Communicate Effectively
2. Critical thinking, reading, and writing	4 – Think Critically
3. Process knowledge	4 – Think Critically
4. Genre knowledge	4 – Think Critically
5. Research skills	2 – Communicate Effectively

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing(EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing(EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing(EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning(QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics(QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra(QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE	CR	SEM	PREREQUISITE

ECON 1740	Econ History of US(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics(AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:
Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: The following courses will fulfill the General Education Distribution Area requirement in Humanities: ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, ENGL 2600, ENGL 2610, ENGL 2710, ENGL 2740, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850. If one of these courses is selected to fill the General Education Humanities (HU) requirement, it may also count toward the 21 credit hours of English required in the Major Course Requirements and English electives. If this option is selected, student must also complete an additional 3 credit hours in the non-English Electives area.

REQUIRED COURSES: (SELECT 3 OF THE 4 COURSES)

COURSE		CR	SEM	PREREQUISITE
ENGL 1200	Intro to Linguistics	3	A	ENGL 1010 w/C grade or better
ENGL 2250	Intro/Imaginative Wrtg(HU)	3	A	
ENGL 2600	Crit Intro Literature(HU)	3	A	
ENGL 2700	Intro to Critical Theory	3	A	ENGL 2600

ENGLISH ELECTIVES: (SELECT 9 CREDITS FROM ENGLISH ELECTIVES)

ENGLISH EMPHASIS WITH CREATIVE WRITING
Major course ENGL 2250 suggested.

COURSE		CR	SEM	PREREQUISITE
ENGL 2260	Intro to Writing Poetry(HU)	3	Sp	
ENGL 2270	Intro to Writing Fiction(HU)	3	Sp	
ENGL 2280	Intro Creative Nonfict (HU)	3	F	
ENGL 2290	Intro Novel Writing	3	F	
ENGL 2900	Special Topics	3	F, Sp	

ENGLISH EMPHASIS WITH LITERATURE
Major course ENGL 2600, ENGL 2700 suggested*

COURSE		CR	SEM	PREREQUISITE
ENGL 2300	Intro to Shakespeare	3	Sp	ENGL 1010 w/C grade or better
ENGL 2330	Children's Literature	3	A	ENGL 1010 w/C grade or better
ENGL 2610	Diversity in Am Lit(HU,DV)	3	A	ENGL 1010 w/C grade or better
ENGL 2630	Global Lit(HU)	3	F	
ENGL 2710	Intro to Folklore (HU)	3	A	
ENGL 2810	Native Am Lit &Exp(HU,DV)	3	Sp	ENGL 1010 w/C or better
ENGL 2900	Special Topics	1-3	A	

*Choose ENGL 2600 and ENGL 2700 for the major course requirements

ENGLISH EMPHASIS WITH WRITING STUDIES

COURSE		CR	SEM	PREREQUISITE
ENGL 1800	Digital Media Essentials	4	A	
ENGL 1810	Writing Cntr Theory/Prac	3	F	
ENGL 1820	Publication Studies	3	Sp	
ENGL 1910	WCC Capstone	1	A	Department approval
ENGL 2100	Technical Writing(EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2500	Grammar & Style	3	F, Sp	
ENGL 2900	Special Topics	3	A	

For non-English electives, see the Writing Certificate electives.

ENGLISH EMPHASIS WITH ENGLISH LANGUAGE STUDIES
Major course ENGL 1200 suggested

COURSE		CR	SEM	PREREQUISITE
ENGL 2030	Language in Society(HU,DV)	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2500	Grammar & Style	3	F, Sp	
ENGL 2900	Special Topics	1-3	A	

ENGLISH EMPHASIS WITH CULTURAL STUDIES

COURSE		CR	SEM	PREREQUISITE
ENGL 2030	Language in Society(HU,DV)	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2610	Diversity in Am Lit (HU,DV)	3	A	ENGL 1010 w/C grade or better
ENGL 2760	Gender Cultral Stdy(HU,DV)	3	A	
ENGL 2810	Native Am Lit & Exp(HU,DV)	3	Sp	ENGL 1010 w/C grade or better
ENGL 2830	Div Women Writers(HU,DV)	3	F, Sp	
ENGL 2850	Intro to Queer Studies(HU,DV)	3	A	

ELECTIVE COURSES: (6 CREDITS)

Complete 6 credits from the English Department Offerings or from any college course numbered 1000 or above.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
AI	3	QL	3-4
LW	1	ENGL REQ	3
DISTRIBUTION (2)	6	ENGL ELEC	3
ELEC	3	DISTRIBUTION	3
Total	**16**	**Total**	**15-16**
FALL SEMESTER		**SPRING SEMESTER**	
ENGL REQ	3	ENGL REQ	3
ENGL ELEC	3	ENGL ELEC	3
ELEC	3	ELEC	3
DISTRIBUTION	3	DISTRIBUTION (2)	6
STUDENT CHOICE	3		
Total	**15**	**Total**	**15**

DEPARTMENTAL OFFERINGS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 1030	Writing in Prof(HR)	3	F	ENGL 1010
ENGL 1050	Rdg Contmp.Cltr(HU,DV)	3	A	
ENGL 1100	Div/Pop US Lit(HU,DV)	3	A	
ENGL 1200	Intro Linguistics	3	A	ENGL 1010 w/C grade or better
ENGL 1800	Digital Media Essentials	4	A	
ENGL 1810	Writing Cntr Theory/Prac	3	F	
ENGL 1820	Publication Studies	3	Sp	
ENGL 1900	Special Studies	1-3	A	ENGL 1010 and instructor approval
ENGL 2000	English CO-OP Educ	2-4	A	Instructor approval

ENGL 2010	Intermed Writing (EN)	3	A	ENGL 1010 w/C or better
ENGL 2030	Language in Soc (HU,DV)	3	F, Sp	ENGL 1010 w/C grade or better
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2250	Intro/ Imaginative Wrtg(HU)	3	A	
ENGL 2260	Intro to Writing Poetry (HU)	3	Sp	
ENGL 2270	Intro to Writing Fiction (HU)	3	Sp	
ENGL 2280	Intro Creative Nonfictn(HU)	3	F	
ENGL 2290	Intro Novel Writing	3	F	
ENGL 2300	Intro to Shakespeare	3	Sp	ENGL 1010 w/C grade or better
ENGL 2330	Children's Literature	3	A	ENGL 1010 w/C grade or better
ENGL 2500	Grammar & Style	3	F, Sp	
ENGL 2600	Crit Intro Literature (HU)	3	A	
ENGL 2610	Diversity in Am Lit (HU,DV)	3	A	ENGL 1010 w/C grade or better
ENGL 2630	Global Lit(HU)	3	F	
ENGL 2700	Intro to Critical Theory	3	F, Sp	ENGL 2600
ENGL 2710	Intro to Folklore (HU)	3	A	
ENGL 2760	Gndr & Cultural Stdy (HU,DV)	3	Sp	
ENGL 2740	Intro Women's Stdy (HU)	3	F, Sp	
ENGL 2810	Native Am Lit &Exp(HU,DV)	3	Sp*	ENGL 1010 w/C or better
ENGL 2830	Div Women Writers(HU,DV)	3	F, Sp	
ENGL 2850	Intro to Queer Studies(HU,DV)	3	A	

*Course taught Spring semesters in odd years

NOTE: Acceptance of English courses varies within English programs at various institutions. Meet with an advisor to plan which English courses are best suited for the program to which you plan to transfer.

ENGLISH WRITING – CERTIFICATE OF COMPLETION — 33 credits minimum

English Department
Taylorsville Redwood Campus, AAB (IAB) 165
General Information, (801) 957-4073
Program Information, (801) 957-4020
www.slcc.edu/english
Academic Advisor, AAB (IAB) 237B, (801) 957-3866

English Associate Dean: Stephen Ruffus, AAB (IAB) 165M (801) 957-4375

Program Faculty:
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Associate Professors – Sue Briggs, Lisa Bickmore, Louise Bown, James Celestino, Ron Christiansen, Jennifer Courtney, Mary Jayne Davis, George Ellington, Allison Fernley, Brent Green, Melissa Helquist, Gary Howard, Dean Huber, Lynn Kilpatrick, Cristin Longhurst, Stephanie Maenhardt, Andrea Malouf, Kathy McIntyre, Liz Montague, Jason Pickavance, Tiffany Rousculp, Stephen Ruffus, Carol Sieverts, Mildred Sparks, Brittany Stephenson, Elisa Stone, Jerri Harwell
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Program Description: The English Department provides courses involving reading, writing and critical thinking, ranging from introductory to more advanced explorations of the role of language in society, in academic studies and in our own personal and professional experiences. We emphasize teaching students to take responsibility for how they communicate in a variety of contexts (from academic, to imaginative, to work-related) and for how language may be used to achieve results. Courses teach intellectual inquiry, expose students to diverse reading and writing tasks, and address how power may be won or lost through the medium of words. A departmental emphasis is also available for students seeking an A.A. or an A.S. in English. Various courses of study are available for students to choose: Generalist, Creative Writing, Literature, Writing Studies, English Language Studies, or Cultural Studies.

Most college degree and certificate programs require a two-course sequence of ENGL 1010, followed by ENGL 2010 or ENGL 2100.

ENGL 1030 may fulfill the General Education Human Relations (HR) requirement for SLCC AAS degrees.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, ENGL 2600, ENGL 2610, ENGL 2630, ENGL 2710, ENGL 2740, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 will fulfill the General Education Humanities (HU) requirement.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2610, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 fulfill the Diversity (DV) requirement at SLCC.

ENGL 1050, ENGL 1100, ENGL 2030, ENGL 2280, ENGL 2610, ENGL 2760, ENGL 2810, ENGL 2830, and ENGL 2850 may fulfill the diversity requirement at many institutions.

The English Department also provides electives such as ENGL 2250, ENGL 2260, ENGL 2270, ENGL 2280, and ENGL 2890 for students seeking to explore various kinds of writing.

The Student Writing Center: The Student Writing Center (SWC) offers SLCC writers a place to talk about their writing or reading with a trained writing advisor. Faculty writing advisors are instructors who teach in the writing program; peer writing advisors are SLCC students who have been recommended by faculty and have received extensive training in writing advising.

All writers at SLCC (undergraduates, staff, and faculty) are welcome to bring their work to the SWC. The advisors are able to work with all in-class writing and other writing projects such as scholarship applications, memos and reports. In the SWC, the writing advisors assist in analyzing the writing situation or project, developing a writing plan, undoing writer's "blocks" and providing feedback to the writer. Computers are available in AD 230, as is assistance with word processing.

In the SWC, one-on-one or small group consultations are available and writers are encouraged to meet with a writing advisor at any stage in their writing project (from brainstorming to final editing). The SWC also holds workshops on reading/writing topics, demonstrates in-class peer group workshopping and distributes other writing-related materials (including materials on documentation and research methods). A standard consultation is a 20- to 30-minute meeting between a writer and a writing advisor (small group appointments also are available). These meetings can take place at any stage in the writing process from brainstorming to final editing. Writers can drop in any time the center is open to make an appointment; they should bring details about the assignment, along with notes and any drafts. At Taylorsville Redwood Campus, the SWC is in AD 218; at South City Campus, writing tutors are available in the Learning Center, N316; at Jordan Campus, tutors are available in HTC 102.

The SLCC Community Writing Center: Located at 210 East 400 South, Salt Lake City, (801) 957-2192. The SLCC Community Writing Center provides writing assistance, short term workshops, and writing groups to all Salt Lake area adults.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

General Education and Financial Aid: Most courses taken to meet Writing Certificate requirements may also be used to meet General Education and Program requirements. Please meet with an advisor to discuss options. The Writing Certificate of Completion program is eligible for financial aid.

Program Entry Requirements: Students are responsible for taking the ACT or the College Placement Test before the semester (at least one month before) they wish to enroll in ENGL 1010. Students who need to take preparatory classes in English to meet the requirement of any course should plan on extra time to complete a degree. It also is the student's responsibility to examine each course description for details of prerequisite classes. Prerequisites must be completed with a minimum grade of C. Students also must receive a minimum grade of C (not C-) in all English classes counted toward the degree. Writing Certificate Students are required to take a designated Service Learning course or complete an internship. Please see the English Department or English Advisor to complete a student interest profile for the Writing Certificate of Completion. This document can be found at www.slcc.edu/wcc.

Certificate requires the completion of an electronic portfolio and completion of a service-learning project or internship or equivalency, which will be the individualized focus of ENGL 1910. Please see your Writing Certificate Mentor for options.

REQUIRED COURSES: (27 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing(EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 1030	Writing in the Professions(HR)	3	F	ENGL 1010
ENGL 1800	Digital Media Tools/Techniques	4	A	
ENGL 1910	WCC Capstone	1	A	
ENGL 2010	Intermediate Writing(EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2100	Technical Writing(EN)	3	A	ENGL 1010 w/C grade or better
ENGL 2500	Grammar & Style	3	F	
MATH 1010	Intermediate Algebra(QS) Or equivalent QS	4	A	RGD 0900; and within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score
CHOICE OF				
ENGL 1810	Writing Cntr Theory/ Pract	3	F	
	OR			
ENGL 1820	Publication Studies	3	Sp	

ELECTIVES: (SELECT 6 CREDITS FROM ENGLISH ELECTIVES)

Students can choose from the list of electives below or can identify writing-emphasized electives based on English Department approval.

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Comm(IN)	3	A	ENGL 1010 w/C grade or better
INTL 2060	Intl Lit & Culture (HU,DV)	3	A	
COMM 1130	Report for Mass Media	3	A	
COMM 1140	Environmental Comm	3	F, Sp	
COMM 1610	Jrn I: Reporting/Writing	3	F, Sp	ENGL 1010

COMM 1620	Jrn II: Editing	3	F, Sp	COMM 1610 or 1130
MATH 1030	Quantitative Reasoning(QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
POLS 2200	Intro Compare Pol(SS)	3	TBA	
POLS 2300	Political Ideology(SS)	3	F, Sp	

SAMPLE SCHEDULE			
FIRST SEMESTER		**SECOND SEMESTER**	
ENGL 1010	3	ENGL 1030	3
ENGL 1800	4	ENGL 1910	1
ENGL 2500	3	ENGL 2010	3
MATH 1010	4	ENGL 2100	3
ELEC	3	ENGL 1810/1820	3
		ELEC	3
Total	**17**	**Total**	**16**

FAMILY AND HUMAN STUDIES – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information, (801) 957-4073
Education Information, (801) 957-5035
www.slcc.edu/familyandhumanstudies
Academic Advisor, AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Professor – Dale Smith
Assistant Professor – Mark O. Jarvis, Sally Schramm

Program Description: Family and Human Studies students develop the skills needed to provide professional early childhood education services for young children and families.

This introductory level program will acquaint students to the multi-faceted, multi-skilled early childhood profession. Students examine issues in the provision of services to children birth through age eight in a child care or elementary setting. The program may require service learning and lab school participation where the student is assigned to work with seasoned professionals in the field enabling each to apply and further understand theoretical frameworks discussed in class.

Career Opportunities: Students specializing in early childhood will be prepared to work with children in family child care or child care centers as teachers and/or directors.

Transfer/Articulation Information: The two-year AS degree is designed for students who plan to transfer to programs at four-year universities or colleges. SLCC has developed articulation agreements with other state colleges and universities which make it easy for SLCC students to transfer their credits. Although SLCC has worked hard to make transferring to other institutions as convenient as possible, it is important to understand that specific course requirements for a degree vary among the state's four-year colleges. To optimize your educational experience at SLCC, please be sure to consult with the Family and Human Studies Academic Advisor before registering for elective classes.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See the FHS Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: Students in the FHS program must not have been convicted of any crimes against children and will be required to complete a criminal background check. Students should also exhibit the maturity and emotional stability required to take charge of a group of pre-school children and possess sufficient health and strength to lift a child.

Estimated Cost for Students: Estimated cost of books and supplies per course $125-$175.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1a. Develop knowledge, skills, and experience to work effectively with young children based on industry standards. 1b. Be prepared for further study in education or a related discipline. 1c. Understand key concepts, events and personalities related to early childhood education. 1d. Explain theories, concepts and principles connected to the physical, intellectual, social, and emotional development of children. 1e. Evaluate and prepare curriculum and program activities consistent with current research on early childhood learning theory and models. 1f. Incorporates core knowledge content in a classroom setting.	1 – Substantive Knowledge
2a. Effectively communicate orally and in writing about key concepts and	2 – Communicate Effectively

significant topics in education. 2b. Effectively communicate in business and educational settings. 2c. Maintain appropriate state and Federally required documentation. 2d. Demonstrates effective nonverbal communication techniques with young children.	
3a. Use and interpret information represented as data, graphs, and tables to analyze relevant information for working with children in an early childhood setting.	3 – Develop Quantitative Literacy
4a. Construct a personal philosophy of early childhood education and care. 4b. Systematically complete reflective assignments demonstrating analysis, synthesis, and evaluation. 4c. Connect the discipline of early childhood education with other disciplines relevant to child development and learning.	4 – Think Critically
5a. Successfully complete service learning and laboratory experiences in predetermined early childhood learning environments. Dialogue with seasoned professionals in the field to enhance theoretical perspectives. 5b. Demonstrate appropriate social and interpersonal relationship skills in a variety of early childhood professional contexts.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quant Reasoning	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1050	College Algebra	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (16 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FHS 1500	Lifespan Human Dev (SS)	3	A	
FHS 2500	Child Dev: Birth to 8	3	F	FHS 1500, 2600, 2610 w/C grade or better (FHS 2610 may be taken

				concurrently). Coreq: FHS 0010
FHS 2600	Intro Early Child Educ	3	F, Sp	Coreq: FHS 0010
FHS 2610	Child Guidance	3	F, Sp	Coreq: FHS 0011
FHS 2620	Creative Learning	4	Sp	FHS 2500 w/C grade or better. Coreq: FHS 0010

NOTE: FHS 0010 & FHS 0011 are two hour per week labs. FHS 2620 will require 2-two hour per week labs (4 hrs per week total).

ELECTIVES: (SELECT 13-14 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
EDU 2010	Intro Special Ed	3	A	
EDU 2140	Tech for Teachers	2	F, Sp	
*FHS 1900	Individual Studies in FHS	1-3	F, Sp	Instructor approval
*FHS 2000	CO-OP Educ in FHS	1-2	F, Sp	Instructor approval
FHS 2020	Spec Studies CDA Cmp	3	A	CDA Credential
FHS 2300	Admin EC Programs	2	Sp	
FHS 2340	Creating Envir Yng Chl	3	F	
FHS 2400	Marriage Fam Rel (ID)	3	A	
FHS 2550	Infant & Toddler Dev	3	F	FHS 1500
FHS 2570	Growth Dev 6-12	3	Sp	
FHS 2640	Home School Fam Comm	3	F, Sp	
FHS 2645	EC Integrated Curriclm	3	A	

*A total of one credits from wither FHS 1900 or FHS 2000 may be applied toward graduation.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	ENGL 2010	3
FHS 1500	3	FHS ELECTIVE	3
FHS 2600/0010	3	FHS 2610/0011	3
HLAC	1	DISTRBUTION	3
AI	3	DISTRIBUTION	3
STUDENT CHOICE	3		
Total	**16**	**Total**	**15**

FALL SEMESTER		SPRING SEMESTER	
FHS 2500/0010	3	FHS 2620/0010	4
MATH 1030	3	DISTRIBUTION	3
DISTRIBUTION	3	DISTRIBUTION	3
DISTRIBUTION	3	FHS ELECTIVE	4-5
FHS ELECTIVES	6		
Total	**18**	**Total**	**14-15**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. The prerequisites must be satisfied with a C or better before the designated class may be taken.

ONLINE & EVENING CLASSES

Many of the FHS courses are also offered online or during the evening. Several of the FHS classes require a lab in which the student works with preschool children. Online or evening students may be required to attend labs at the Eccles Lab School, which is open for labs from 8:00 a.m. to 11:30 a.m. and 2:00 p.m. to 5:00 p.m. If you have extenuating circumstances that would make it hard for you to complete your labs at the Eccles Lab School, you should contact the FHS Lab Coordinator at 801-957-4666 to discuss other possible options.

LAB REQUIREMENTS

It is important that students have the opportunity to apply the theories and practices discussed in the classroom. To this end, several of the FHS classes require weekly labs working with young children in the lab. Lab students must provide evidence of a TB test, health evaluation and Child Care Food Handler's Permit within two weeks of starting a lab course.

COOPERATIVE EDUCATION

Students working 20 hours or more per week in a licensed child care facility may complete some lab requirements at their work site (cooperative education). Please contact the FHS Lab Coordinator at 801-957-4666 for more information.

FAMILY AND HUMAN STUDIES – ASSOCIATE OF APPLIED SCIENCE (AAS) 66 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information, (801) 957-4073
Education Information, (801) 957-5035
www.slcc.edu/familyandhumanstudies
Academic Advisor, AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Professor – Dale Smith
Assistant Professor – Mark O. Jarvis, Sally Schramm

Program Description: Family and Human Studies students develop the skills needed to provide professional early childhood education services for young children and families.

This introductory level program will acquaint students to the multi-faceted, multi-skilled early childhood profession. Students examine issues in the provision of services to children birth through age eight in a child care or elementary setting. The program may require service learning and lab school participation where the student is assigned to work with seasoned professionals in the field enabling each to apply and further understand theoretical frameworks discussed in class.

The two-year AAS degree in Family and Human Studies prepares the student to become a teacher or director of a child care facility. Special attention is given to providing the student the business skills needed to become an effective child care center administrator.

Career Opportunities: Students specializing in early childhood will be prepared to work with children in family child care or child care centers as teachers and/or directors.

Program Entry Requirements: Students in the FHS program must not have been convicted of any crimes against children and will be required to complete a criminal background check. Students should also exhibit the maturity and emotional stability required to take charge of a group of pre-school children and possess sufficient health and strength to lift a child.

Estimated Cost for Students: Estimated cost of books and supplies per course $125-175.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1a. Develop knowledge, skills, and experience to work effectively with young children based on industry standards. 1b. Be prepared for further study in education or a related discipline. 1c. Understand key concepts, events and personalities related to early childhood education. 1d. Explain theories, concepts and principles connected to the physical, intellectual, social, and emotional development of children. 1e. Evaluate and prepare curriculum and program activities consistent with current research on early childhood learning theory and models. 1f. Incorporates core knowledge content in a classroom setting. 1g. Acquire knowledge to administer a child care facility including development of a viable business plan, policy and procedures manual.	1 – Substantive Knowledge
2a. Effectively communicate orally and in writing about key concepts and significant topics in early childhood education. 2b. Develop effective communication skills for business and educational settings. 2c. Maintain appropriate state and Federally required documentation. 2d. Demonstrates effective nonverbal communication techniques with young children.	2 – Communicate Effectively

2e. Demonstrates effective verbal and nonverbal techniques of working with parents from socially and culturally diverse backgrounds. 2f. Develop a business plan including a policy and procedures manual for a child care facility or preschool. 2g. Develop skills needed to present a communication-based parent program.	
3a. Use and interpret information represented as data, graphs, and tables to analyze relevant information for working with children in an early childhood setting. 3b. Demonstrate knowledge of working budgets by developing a viable budget for a child care center or preschool. 3c. Develop a business plan including an operating budget.	3 – Develop Quantitative Literacy
4a. Construct a personal philosophy of early childhood education and care. 4b. Systematically complete reflective assignments demonstrating analysis, synthesis, and evaluation. 4c. Connect the discipline of early childhood education with other disciplines relevant to child development and learning.	4 – Think Critically
5a. Successfully complete service learning and laboratory experiences in predetermined early childhood learning environments. Dialogue with seasoned professionals in the field to enhance theoretical perspectives. 5b. Demonstrate appropriate social and interpersonal relationship skills in a variety of early childhood professional contexts.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FHS 2640	Home School Family Comm	3	F, Sp	

DISTRIBUTION AREAS: (3-6 CREDITS)

Choose an additional three to six credits (one to two courses) from two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (27 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BUS 1050	Foundations of Bus	3	A	ENGL 1010 (may be taken concurrently)
FHS 1500	Lifespan Human Dev (SS)	3	A	
FHS 2500	Child Dev: Birth to 8	3	F	FHS 1500, 2600, 2610 w/C grade or better (FHS 2610 may be taken concurrently). Coreq: FHS 0010
FHS 2600	Intro Early Child Educ	3	F, Sp	Coreq: FHS 0010
FHS 2610	Child Guidance	3	F, Sp	Coreq: FHS 0011
FHS 2620	Creative Learning	4	Sp	FHS 2500 w/C grade or better. Coreq: FHS 0010

FHS 2800	Practicum Teaching	3	F, Sp	FHS 2500 w/C grade or better, FHS 2620 (may be taken concurrently) and instructor approval. Coreq: FHS 2820
FHS 2820	Teaching Seminar	2	F, Sp	FHS 2500 w/C grade or better, FHS 2620 (may be taken concurrently) and instructor approval. Coreq: FHS 2800
MGT 2070	Human Resource Mgmt	3	F, Sp	BUS 1050

NOTE: FHS 0010 & FHS 0011 are two hour per week labs. FHS 2620 will require 2-two hour per week labs (4 hrs per week total). FHS 2800 is spent 3 days a week, 3 hrs per day at the Eccles Lab School or at various other specified sites off campus.

ELECTIVE COURSES: (21 CREDITS)

COURSE		CR	SEM	PREREQUISITE
EDU 2010	Intro Special Ed	3	A	
EDU 2140	Tech for Teachers	2	F, Sp	
*FHS 1900	Individual Studies in FHS	1-3	F, Sp	Instructor approval
*FHS 2000	CO-OP Educ in FHS	1-2	F, Sp	Instructor approval
FHS 2020	Spec Studies CDA Cmp	3	A	CDA Credential
FHS 2300	Admin EC Programs	2	Sp	
FHS 2340	Creating Envir Yng Chl	3	F	
FHS 2400	Marriage Fam Rel (ID)	3	A	
FHS 2550	Infant & Toddler Dev	3	F	FHS 1500
FHS 2570	Growth Dev 6-12	3	Sp	
FHS 2645	EC Integrated Curriclm	3	A	

*A total of one credit from either FHS 1900 or FHS 2000 can be applied toward graduation.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
FIN 1380	3	BUS 1050	3
ENGL 1010	3	FHS ELECTIVE	8
FHS 1500	3	FHS 2640 (HR)	3
FHS 2600/0010	3	FHS 2610/0011	3
DISTRIBUTION	3		
Total	**15**	**Total**	**17**

FALL SEMESTER		SPRING SEMESTER	
FHS 2500/0010	3	FHS 2800	3
MGT 2070	3	FHS 2820	2
COMM 1010	3	FHS ELECTIVE	6
FHS ELECTIVE	7	FHS 2620/0010	4
Total	**16**	**Total**	**15**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. The prerequisites must be satisfied with a C or better before the designated class may be taken.

ONLINE & EVENING CLASSES

Many of the FHS courses are also offered online or during the evening. Several of the FHS classes require a lab in which the student works with preschool children. Online or evening students may be required to attend labs at the Eccles Lab School, which is open for labs from 8:00 a.m. to 11:30 a.m. and 2:00 p.m. to 5:00 p.m. If you have extenuating circumstances that would make it hard for you to complete your labs at the Eccles Lab School you should contact the FHS Lab Coordinator at 801-957-4666 to discuss other possible options.

LAB REQUIREMENTS

It is important that students have the opportunity to apply the theories and practices discussed in the classroom. To this end, several of the FHS classes require weekly labs working with young children in the lab. Lab students must provide evidence of a TB test, health evaluation and Child Care Food Handler's Permit within two weeks of starting a lab course.

COOPERATIVE EDUCATION

Students working 20 hours or more per week in a licensed child care facility may complete some lab requirements at their work site (cooperative education). Please contact the FHS Lab Coordinator at 801-957-4666 for more information.

FAMILY AND HUMAN STUDIES – CERTIFICATE OF COMPLETION[CTE] 36 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information, (801) 957-4073
Education Information, (801) 957-5035
www.slcc.edu/familyandhumanstudies
Academic Advisor, AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Professor – Dale Smith
Assistant Professor – Mark O. Jarvis, Sally Schramm

Program Description: Family and Human Studies students develop the skills needed to provide professional early childhood education services for young children and families. This introductory level program will acquaint students to the multi-faceted, multi-skilled early childhood profession. Students examine issues in the provision of services to children birth through age eight in a child care or elementary setting. The program may require service learning and lab school participation where the student is assigned to work with seasoned professionals in the field enabling each to apply and further understand theoretical frameworks discussed in class.

The Certificate of Completion is for students who want intensive instruction in early childhood development, but are not seeking a two-year degree. The Certificate of Completion requires the same FHS courses as the two-year degrees, but eliminates most General Education requirements. Course-work completed in pursuit of the Certificate of Completion can be applied toward the AS and AAS degrees.

Career Opportunities: Students specializing in early childhood will be prepared to work with children in family child care or child care centers as teachers and/or directors.

Program Entry Requirements: Students in the FHS program must not have been convicted of any crimes against children and will be required to complete a criminal background check. Students should also exhibit the maturity and emotional stability required to take charge of a group of pre-school children and possess sufficient health and strength to lift a child.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1a. Acquire substantive knowledge of early childhood education. 1b. Be prepared for further study in education or a related discipline at Salt Lake Community College or a four-year college or university. 1c. Understand key concepts, events and personalities related to early childhood education.	1 – Substantive Knowledge
1. Effectively communicate orally and in writing about key concepts and significant topics in education.	2 – Communicate Effectively
1. Use and interpret information represented as data, graphs, and tables to analyze relevant information for working with children in an early childhood setting.	3 – Develop Quantitative Literacy
4a. Construct a personal philosophy of early childhood education and care. 4b. Systematically complete reflective assignments demonstrating analysis, synthesis, and evaluation. 4c. Connect the discipline of early childhood education with other disciplines relevant to child development and learning.	4 – Think Critically
5a. Successfully complete service learning and laboratory experiences in predetermined early childhood learning environments. Dialogue with seasoned professionals in the field to enhance theoretical perspectives. 5b. Demonstrates appropriate social and interpersonal relationship skills in a variety of early childhood professional contexts.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Eff Comm	3	A	
OR				
COMM 1020	Prin Public Speaking	3	A	
MATH 1030	Quant Reasoning	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1050	College Algebra	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score
FHS 1500	Lifespan Human Dev (SS)	3	A	
FHS 2500	Child Dev: Birth to 8	3	F	FHS 1500, 2600, 2610 w/C grade or better(FHS 2610 may be taken concurrently). Coreq: FHS 0010
FHS 2600	Intro Early Child Educ	3	F, Sp	Coreq: FHS 0010
FHS 2610	Child Guidance	3	F, Sp	Coreq: FHS 0011
FHS 2620	Creative Learning	4	Sp	FHS 2500 w/C grade or better. Coreq: FHS 0010
FHS 2640	Home School Family Comm	3	F, Sp	
FHS 2800	Practicum Teaching	3	F, Sp	FHS 2500 w/C grade or better, FHS 2620 (may be taken concurrently) and instructor approval. Coreq: FHS 2820
FHS 2820	Teaching Seminar	2	F, Sp	FHS 2500 w/C grade or better, FHS 2620 (may be taken concurrently) and instructor approval. Coreq: FHS 2800

NOTE: FHS 0010 & FHS 0011 are two hour per week labs. FHS 2620 will require 2-two hour per week labs (4 hrs per week total). FHS 2800 is spent 3 days a week, 3 hrs per day at the Eccles Lab School or at various other specified sites off campus.

ELECTIVES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
EDU 2010	Intro Special Ed	3	A	
EDU 2140	Tech for Teachers	2	F, Sp	
*FHS 1900	Individual Studies in FHS	1-3	F, Sp	Instructor approval
*FHS 2000	CO-OP Educ in FHS	1-2	F, Sp	Instructor approval
FHS 2020	Spec Studies CDA Cmp	3	A	CDA Credential
FHS 2300	Admin EC Programs	2	Sp	
FHS 2340	Creating Envir Yng Chl	3	F	
FHS 2400	Marriage Fam Rel (ID)	3	A	
FHS 2550	Infant & Toddler Dev	3	F	FHS 1500
FHS 2570	Growth Dev 6-12	3	Sp	

* A total of one credit from either FHS 1900 or FHS 2000 can be applied toward graduation.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
COMM 1010/1020	3	FHS 2610/0011	3
FHS 1500	3	MATH 1030/1040/1050	3-4
FHS 2600/0010	3		
FHS 2640	3		
TOTAL	**12**	**TOTAL**	**6-7**
FALL SEMESTER		**SPRING SEMESTER**	
FHS 2500/0010	3	FHS 2620/0010	4
FHS ELECTIVES	6	FHS 2800	3
		FHS 2820	2
TOTAL	**9**	**TOTAL**	**9**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. The prerequisites must be satisfied with a C or better before the designated class may be taken.

ONLINE & EVENING CLASSES

Many of the FHS courses are also offered online or during the evening. Several of the FHS classes require a lab in which the student works with preschool children. Online or evening students may be required to attend labs at the Eccles Lab School, which is open for labs from 8:00 a.m. to 11:30 a.m. and 2:00 p.m. to 5:00 p.m. If you have extenuating circumstances that would make it hard for you to complete your labs at the Eccles Lab School you should contact the FHS Lab Coordinator at 801-957-4666 to discuss other possible options.

LAB REQUIREMENTS

It is important that students have the opportunity to apply the theories and practices discussed in the classroom. To this end, several of the FHS classes require weekly labs working with young children in the lab. Lab students must provide evidence of a TB test, health evaluation and Child Care Food Handler's Permit within two weeks of starting a lab course.

COOPERATIVE EDUCATION

Students working 20 hours or more per week in a licensed child care facility may complete some lab requirements at their work site (cooperative education). Please contact the FHS Lab Coordinator at 801-957-4666 for more information.

CHILD DEVELOPMENT ASSOCIATE CREDENTIAL [CTE] — 10 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information, (801) 957-4073
Education Information, (801) 957-5035
www.slcc.edu/familyandhumanstudies
Academic Advisor, AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Professor – Dale Smith
Assistant Professor – Mark O. Jarvis, Sally Schramm

Program Description: The Family and Human Studies department offers coursework that can be applied toward completion of the Child Development Associate Credential (CDA). The CDA credential is a nationally recognized, competency-based educational program offered by The Council for Early Childhood Professional Recognition. Credits earned as part of the CDA program transfer seamlessly into certificate and degree programs.

Students who are unfamiliar with the CDA program are encouraged to meet with a faculty advisor before starting the program. For more information about the CDA program, contact:

Child Development Associate Credential
2460 16th Street, NW
Washington, D.C. 20009-3575
OR
Call Toll Free 1-800-424-4310
www.cdacouncil.org/the-cda-credential

The Child Development Associate Credential requires, within the past five years, 120 contact hours of formal training and 480 contact hours working directly with children as a lead caregiver. Students wishing to complete the CDA credential should be working either full- or part-time in a state approved child development center or family child care home.

REQUIRED COURSES: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FHS 1500	Human Development (SS)	3	A	
FHS 1900	Special Topics	1-2	F, Sp	Instructor approval
FHS 2600	Intro to ECE	3	F, Sp	Coreq: FHS 0010
FHS 2610	Child Guidance	3	F, Sp	Coreq: FHS 0011

NOTE: FHS 0010 & FHS 0011 are two hour per week labs.

FASHION DESIGN & MERCHANDISING: FASHION DESIGN EMPHASIS - ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 68 credits minimum

Visual Art & Design Department
Library Square Campus
General Information, (801) 957-4073
Program Information, (801) 957-2000
www.slcc.edu/fashion
Academic Advisor, Cindy Clark SCC 1.061.ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD, (801) 957-3361

Program Faculty:
Program Director – Mojdeh Sakaki

Program Description: The Fashion Design curriculum has been developed by a faculty of practicing professionals and advisory boards of industry leaders. It is continually evolving in response to changes in the field, offering the latest trends, skills, and technology students need to succeed in the global economy. It also provides a firm foundation in the liberal arts.

The Fashion Design Program prepares students for careers in fashion design for the apparel industry. The curriculum stimulates creative expression in all aspects of fashion design, including fashion sketching, creative design, computer applications, draping, and pattern drafting. Students will understand the importance of communication and critical reasoning and the effect they have on this diversified and global industry.

Career Opportunities: The Fashion Design Associate of Applied Science degree will prepare students for employment in the fashion industry. In addition, many students study fashion design for personal enrichment as it enables them to design and make their own custom clothing or perform alterations.

Estimated Cost for Students: Approximately $6000 in tuition and $500 in books and supplies.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students demonstrate knowledge in the history of fashion and the basic theories of fashion design (color, line, shape, texture, scale, and proportion), patternmaking, illustration, and construction of garments.	1,2,3,4,5
Students exhibit professionalism through high quality presentations; effective sales techniques; efficient organization; and work cooperatively with clients and co-workers.	3,5
Students demonstrate knowledge of the various employment options available through internships.	3,5
Students demonstrate knowledge of high quality portfolios that can be used for job applications. Portfolios will reflect class work and projects completed during internships.	3,5
Students demonstrate proficiency in examining trends, drawing designs based on their ideas, choosing colors and fabrics, and supervising the production of their designs	2,3,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math Visual Arts (QS)	3	A	
CMGT 1100	Construction Math (QS)	3	Sp	
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score
MATH 1010	Intermediate Algebra (QS)	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM)	3	A	
COMM 1020	Prin Public Speaking (CM)	3	A	
CTEL 1020	Career Speech Skills (CM)	3	A	

HUMAN RELATIONS (HR) CHOOSE ONE COURSE (2-3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1150	Art Foundation Sem(HR)	3	A	
COMM 2110	Interperl Comm (HR,ID)	3	A	
CTEL 1010	Leader/Team Build (HR)	3	A	
LE 1220	Human Relations	3	A	
MKTG 1010	Customer Service (HR)	3	A	
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas:

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: ARTH 2710, ARTH 2720, MKTG 1050 and PHIL 1120 are recommended.

REQUIRED COURSES: (54 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FASH 1010	Introduction to Fashion	3	A	
FASH 1100	Pattern drafting Essentials	3	A	Knowledge of basic sewing helpful
FASH 1150	Pattern by Measurements	3	F, Sp	Knowledge of basic sewing helpful
FASH 1210	Fashion Illustration I	3	A	
FASH 1250	Textiles	3	F,Sp	
FASH 1350	History of Costume	3	F, Sp	
FASH 1505	Intermediate Sewing	3	A	FASH 1500 or instructor approval
FASH 1610	Knitwear Design	3	F, Sp	FASH 1100
FASH 1660	Pattern Drafting Procds	3	F, Sp	FASH 1100
FASH 1680	Digital Pattern Design	3	Sp	FASH 1100
FASH 2030	Advanced Sewing	3	F, Sp	FASH 1505
FASH 2150	Draping Fundamentals	3	F	Knowledge of basic sewing
FASH 2220	Fashion Illustration II	3	A	FASH 1210
FASH 2280	Bridal Design/Eveningwear	3	Su, F	FASH 1505, FASH 1660
FASH 2410	-Collection Development	3	F	FASH 1505, FASH 1210, FASH 2100
FASH 2440	Collection Production	3	Sp	FASH 2410

FASH 2450	Portfolio Development	3	Sp	Instructor approval
FASH 2500	Fashion Entrepreneurship	3	F, Sp	Instructor approval

ADDITIONAL COURSES OFFERED BY FASHION PROGRAM:

COURSE		CR	SEM	PREREQUISITE
FASH 1200	The Art of Fashion	3	F,Sp	
FASH 1240	Fashion Buying & Management	3	F	
FASH 1260	Fashion Forecasting	3	Sp	
FASH 1300	Visual Merchandising	3	Sp	
FASH 1370	20th Century Fashion	3	F	FASH 1350
FASH 1500	Beginning Sewing	3	A	
FASH 1550	Alterations	3	F	FASH 1500 or basic knowledge of sewing
FASH 1630	Outerwear & Performance Apparel	3	F	FASH 1505, FASH 1100,FASH1660
FASH 1640	Millinery	3	F,Sp	FASH 1500 or basic knowledge of sewing
FASH 1650	Surface Embellishments	3	F	FASH 1505
FASH 1670	Intimate Apparel & Swimwear	3	F	FASH 1610
FASH 1700	Tailoring Techniques	3	F,Sp	FASH 1505
FASH 1850	Fashion Show Production	4	Sp	
FASH 1900	Special Projects	1-3	A	Instructor Approval
FASH 1950	Corset Making Techniques	3	Su, F	FASH 1505
FASH 2000	Fashion Internship	3	A	Instructor Approval
FASH 2050	Pattern Alteration & Fit	3	F, Sp	FASH 1100,FASH 1505
FASH 2300	Design Outreach	3	F	Instructor Approval
FASH 2350	Costuming	3	F, Sp	FASH 1350, FASH1505, FASH1250
FASH 2550	Production & Sourcing	3	F, Sp	FASH 2450 and FASH 2500

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
FASH 1010	3	FASH 1505	3
FASH 1100	3	FASH 1660	3
FASH 1150	3	FASH 1680	3
FASH 1210	3	FASH 2220	3
FASH 1250	3	HR	2
FASH 1350	3	ENGL 1010	3
Total	**18**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
FASH 1610	3	FASH 2440	3
FASH 2030	3	FASH 2450	3
FASH 2100	3	FASH 2500	3
FASH 2410	3	QS	3
FASH 2280	3	DISTRIBUTION	3
CM	3		
Total	**18**	**Total**	**15**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

FASHION DESIGN & MERCHANDISING: FASHION MERCHANDISING EMPHASIS - ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 65-67 minimum

Visual Art & Design Department
Library Square Campus
General Information, (801) 957-4073
Program Information, (801) 957-2000
www.slcc.edu/fashion
Academic Advisor, Cindy Clark SCC 1.061.ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD, 801-957-3361

Program Faculty:
Program Director – Mojdeh Sakaki

Program Description: Salt Lake Community College's AAS degree in Fashion Design will prepare students for careers in the fashion industry and provide a solid foundation for students who want to continue their education at four-year institutions. Fundamentals of design, fashion illustration, textiles, and history of fashion, professional draping, patternmaking, and sewing techniques are among the many subjects students will learn as they take designs from concept to finished garment. This program will guide students to become not only a designer with their own creative vision but also a professional prepared to take their place in this exciting industry.

Career Opportunities: The Fashion Design Associate of Applied Science degree will prepare students for employment in the fashion industry. In addition, many students study fashion design for personal enrichment as it enables them to design and make their own custom clothing or perform alterations.

Estimated Cost for Students: Approximately $6000 in tuition and $500 in books and supplies.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will understand the history of fashion and the basic theories of fashion design (color, line, shape, texture, scale, and proportion), patternmaking, illustration, and construction of garments.	1, 2, 3, 4, 5
Students will exhibit professionalism through high quality presentations; effective sales techniques; efficient organization; and work cooperatively with clients and co-workers.	3, 5
Students will have the opportunity to learn about the various employment options available through internships	3, 5
Students will create high quality portfolios that can be used for job applications. Portfolios will reflect class work and projects completed during internships.	3, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math Visual Arts (QS)	3	A	
CMGT 1100	Construction Math (QS)	3	Sp	
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score
MATH 1010	Intermediate Algebra (QS)	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM)	3	A	
COMM 1020	Prin Public Speaking (CM)	3	A	
CTEL 1020	Career Speech Skills (CM)	3	A	

HUMAN RELATIONS (HR) CHOOSE ONE COURSE (2-3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1150	Art Foundation Sem(HR)	3	A	
COMM 2110	Interperl Comm (HR,ID)	3	A	
CTEL 1010	Leader/Team Build (HR)	3	A	
LE 1220	Human Relations	3	A	
MKTG 1010	Customer Service (HR)	3	A	
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas:

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: ARTH 2710, ARTH 2720, MKTG 1050 and PHIL 1120 are recommended.

REQUIRED COURSES: (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FASH 1010	Introduction to Fashion	3	A	
FASH 1210	Fashion Illustration I	3	A	
FASH 1250	Textiles	3	F, Sp	
FASH 2220	Fashion Illustration II	3	A	FASH 1210
FASH 2450	Portfolio Development	3	Sp	Instructor approval

FASHION MERCHANDISING EMPHASIS COURSES: (35-37 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FASH 1200	The Art of Fashion	3	F, Sp	
FASH 1240	Fash Buying & Mgmt	3	F, Sp	
FASH 1260	Fashion Forecasting	3	Sp	
FASH 1300	Visual Merchandising	3	F, Sp	
FASH 1350	History of Costume	3	F, Sp	
FASH 1850	Fashion Show Prod	4	Sp	
FASH 2000	Fashion Internship	3	A	FASH 1100 and FASH 1505
FASH 2500	Fashion Entrepreneurship	3	F, Sp.	Instructor approval
FASH 2550	Production & Sourcing	3	F, Sp	FASH 2450 and FASH 2500
CHOOSE ONE OF THE FOLLOWING:				
FASH 1370	20th Century Fashion	3	F	FASH 1350
FASH 1640	Millinery	3	F, Sp	FASH 1500 or Basic knowledge of sewing
FASH 1900	Special Projects	1-3	A	Instructor approval
FASH 2220	Fashion Illustration II	3	A	FASH 1210

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
FASH 1010	3	FASH 1250	3
FASH 1200	3	FASH 1260	3
FASH 1210	3	FASH 1300	3
FASH 1240	3	FASH ELEC	3
Total	**12**	**Total**	**12**
SUMMER SEMESTER			
ENGL 1010	3		
QS	3		
HR	3		
Total	**9**		
FALL SEMESTER		**SPRING SEMESTER**	
FASH 1350	3	FASH 1850	4
FASH 2000	3	FASH 2450	3
CM	3	FASH 2500	3
DISTRIBUTION	3	FASH 2550	3
Total	**12**	**Total**	**13**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

FASHION DESIGN & MERCHANDISING: TECHNICAL APPAREL EMPHASIS - ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 66 credits minimum

Visual Art & Design Department
Library Square Campus
General Information, (801) 957-4073
Program Information, (801) 957-2000
www.slcc.edu/fashion
Academic Advisor, Cindy Clark SCC 1.061ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061MD, (801) 957-3361

Program Faculty:
Program Director – Mojdeh Sakaki

Program Description: Salt Lake Community College's AAS degree in Fashion Design will prepare students for careers in the fashion industry and provide a solid foundation for students who want to continue their education at four-year institutions. Fundamentals of design, fashion illustration, textiles, and history of fashion, professional draping, patternmaking, and sewing techniques are among the many subjects students will learn as they take designs from concept to finished garment. This program will guide students to become not only a designer with their own creative vision but also a professional prepared to take their place in this exciting industry.

Career Opportunities: The Fashion Design Associate of Applied Science degree will prepare students for employment in the fashion industry. In addition, many students study fashion design for personal enrichment as it enables them to design and make their own custom clothing or perform alterations.

Estimated Cost for Students: Approximately $6000 in tuition and $500 in books and supplies.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will understand the history of fashion and the basic theories of fashion design (color, line, shape, texture, scale, and proportion), patternmaking, illustration, and construction of garments.	1, 2, 3, 4, 5
Students will exhibit professionalism through high quality presentations; effective sales techniques; efficient organization; and work cooperatively with clients and co-workers.	3, 5
Students will have the opportunity to learn about the various employment options available through internships	3, 5
Students will create high quality portfolios that can be used for job applications. Portfolios will reflect class work and projects completed during internships.	3, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math Visual Arts (QS)	3	A	
CMGT 1100	Construction Math (QS)	3	Sp	
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score
MATH 1010	Intermediate Algebra (QS)	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM)	3	A	
COMM 1020	Prin Public Speaking (CM)	3	A	
CTEL 1020	Career Speech Skills (CM)	3	A	

HUMAN RELATIONS (HR) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1150	Art Foundation Sem(HR)	3	A	
COMM 2110	Interperl Comm (HR,ID)	3	A	
CTEL 1010	Leader/Team Build (HR)	3	A	
LE 1220	Human Relations	3	A	
MKTG 1010	Customer Service (HR)	3	A	
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas:

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: ARTH 2710, ARTH 2720, MKTG 1050 and PHIL 1120 are recommended.

REQUIRED COURSES: (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FASH 1010	Introduction to Fashion	3	A	
FASH 1210	Fashion Illustration I	3	A	
FASH 1250	Textiles	3	F, Sp	
FASH 2220	Fashion Illustration II	3	A	FASH 1210
FASH 2450	Portfolio Development	3	Sp	Instructor approval

TECHNICAL APPAREL EMPHASIS COURSES: (36 CREDITS)

COURSE		CR	SEM	PREREQUISITE
FASH 1100	Pattern Draft Essentials	3	A	Knowledge of basic sewing helpful
FASH 1150	Pattern by Measurements	3	F,Sp	Knowledge of sewing helpful
FASH 1505	Intermediate Sewing	3	A	FASH 1500 or basic knowledge of sewing
FASH 1610	Knitwear Design	3	F,Sp	FASH 1100 FASH 1630
FASH 1630	Outerwear & Performance Apparel	3	F	FASH 1505, FASH 1100
FASH 1660	Pattern Drafting Proc	3	F,Sp	FASH 1100
FASH 1670	Intimate Apparel & Swimwear	3	F	FASH 1610
FASH 1680	Digital Pattern Design	3	Sp	FASH 1100
FASH 1700	Tailoring Techniques	3	F,Sp	FASH 1505,FASH 1660
FASH 2030	Advanced Sewing	3	F,Sp	FASH 1505
FASH 2050	Pattern Alteration & Fit	3	F,Sp	FASH 1100 and FASH 1505
FASH 2150	Draping Fundamentals	3	F,Sp	FASH 1505 and FASH 1210

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
FASH 1010	3	FASH 1210	3
FASH 1100	3	FASH 1250	3
FASH 1150	3	FASH 1505	3
ENGL 1010	3	DISTRIBUTION	3
		FASH 1660	3
Total	**12**	**Total**	**15**
SUMMER SEMESTER			
FASH 1680	3		
QS	3		
HR	3		
CM	3		
Total	**12**		
FALL SEMESTER		**SPRING SEMESTER**	
FASH 1610	3	FASH 2030	3
FASH 1630	3	FASH 2150	3
FASH 1670	3	FASH 2450	3
FASH 2050	3	FASH 1700	3
FASH 2220	3		
Total	**15**	**Total**	**12**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

FILM PRODUCTION TECHNICIAN – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 66 credits minimum

Communication and Performing Arts Department
South City Campus, 1-159
General Information, (801) 957-4073
Program Information, (801) 957-4130
www.slcc.edu/performingarts
Academic Advisor – Cindy Clark, SCC 1.061.ME, (801) 957-3361
Academic Advisor – Gordon Storrs, SCC 1.061.MD, (801) 957-3361

Program Faculty:
Instructors – Channing Lowe, (801) 957-3901, Mark Davis

Program Description: The Film Production Technician program provides students with the specialized knowledge required to perform a wide variety of tasks encountered in the professional world of production.

Students master skills required to be competitive for technical positions in Utah's local film industry. Such skills will include the interpretation of technical terms and functions, the operation of camera equipment, and understanding film and video stock, scene composition, lighting, and audio. Students will learn to create a production design, operate production vehicles, and edit productions.

Students may train for various film industry positions such as camera operator, audio operator, floor director, video/film editor, art director, sound recordist, light technician, special effects and motion graphic artist.

The Salt Lake Community College program involves students with full time faculty as well as expert film industry professionals who teach courses within their areas of expertise. The local film industry is highly supportive of efforts to train people in these areas and will provide internship opportunities for SLCC students.

Career Opportunities: Work in this profession is often fast paced, emotionally and physically demanding and often involves long hours but is highly rewarding. Students will need to establish their reputations within the corporate and commercial film industry and salaries vary widely depending on the type of work performed and the level of experience required.

Transfer/Articulation Information: This AAS degree is currently not transferable to four year institutions; however, the General Education components are transferable.

Program Entry Requirements: None. All students are able to register.

Total Program/Course Fees: Average $60.00 per semester, plus materials.

Estimated Cost for Students: Full-time resident undergraduate students pay approximately $1,500 per semester for tuition and fees—an estimated 45 percent of the full cost of instruction. The remaining support is provided by state tax funds and other institutional revenue sources. Non-residents taking a full "load" pay approximately $3,900.

Estimated Time to Completion: If student follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally

1. Acquire skills in the use of basic concepts, tools, techniques, and procedures to produce works of film from concept to finished product. *Including:* An ability to demonstrate an effective working process and an understanding of and an ability to work within a Film crew.	1, 2, 3, 4
2. Apply the art, aesthetics, and technique of visual storytelling. *Including:* screenwriting, directing, cinematography, lighting, editing, and sound design.	1, 2, 3, 4
3. Knowledge of the history and criticism of Film and their artistic and technological development.	1, 2, 3, 4
4. Understand the basic aesthetic and narrative principles of Film, and basic cinematic historical, theoretical, and critical models.	1, 2, 3, 4
5. Develop the skill set to find gainful employment.	1, 2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	COMM 1010
COMM 1020	Prin Public Speaking	3	A	COMM 1020
CTEL 1020	Career Speech Skills	3	A	CTEL 1020

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (51 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1310	Basic Photography	4	A	none
COMM 2510	Adv Video Prod-Doc	4	F, Sp	COMM 2200 or FLM 1055
OR				
FLM 2510	Adv Video Prod –Doc	4	F, Sp	COMM 2200 or FLM 1055
FLM 1045	Beginning Film Prod	6	A	
FLM 1055	Intermediate Film Prod.	6	F, Sp	FLM 1045
FLM 1075	Screenwriting	3	F, Sp	
FLM 1515	Basic Audio Production	3	A	
FLM 1800	Digital Media Essent	4	A	
FLM 2015	Film Dir.for Techs	4	F, Sp	FLM 1045 w/C grade or better or instructor approval
FLM 2045	Commercial Film Prod.	4	F, Sp	FLM 1045 and FLM 1055 both w/C grade or better

FLM 2065	Motion Pict Sound	4	F, Sp	FLM 1515
FLM 2075	Advanced Editing & Post	3	F, Sp	FLM 1045 and FLM 1055 both w/C grade or better
FLM 2715	Cinematography	4	Sp	FLM 1045 or instructor approval

ELECTIVE COURSES: (SELECT 2 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
COMM 2500	Elem/Issue Digit Med(ID)	4	F, Sp	
FLM 1070	Film And Culture	4	TBA	
FLM 1900	Independent Stud	1-2	TBA	Instructor approval
FLM 2500	Film Bootcamp	4	Su	
FLM 2750	FlmProd Intrnshp	3	F, Sp	Instructor approval
THEA 1160	Tech Theatre I Lab	3	TBA	THEA 1513
THEA 1190	Production	3	F, Sp	
THEA 1223	Stage Make-Up	3	TBA	
THEA 1513	Tech Theatre Stagecraft	3	TBA	Coreq: THEA 1160
THEA 2520	Creative Dramatics	2	TBA	

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	MATH 1010	4
FLM 1045	6	FLM 1055	6
ART 1310	4	FLM 1515	3
FLM 1800	4	FLM 1075	3
		COMM/FLM 2510	3
Total	**17**	**Total**	**19**
FALL SEMESTER		**SPRING SEMESTER**	
FLM 2015	4	FLM 2065	4
FLM 2045	4	FLM 2715	4
FLM 2065	4	DIST	3
FLM 2075	3	ELEC	2
HR	3		
Total	**18**	**Total**	**13**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

FINANCE AND CREDIT – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 65 credits minimum

Accounting, Economics and Finance Division
Taylorsville Redwood Campus, BB 105
General Information, (801) 957-4073
Information, (801) 957-4325
www.slcc.edu/financeandcredit
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – A. Marlon Andrus, Joseph R. Howell, Jr., K. T. Magnusson
Associate Professors – Dennis Wilson, Dennis R. Watson
Assistant Professors – Rungrudee Suetorsak, Heather Schumacker

Program Description: The need for sound financial investments will grow because monetary transactions are and will continue to be the life-blood of every business and organization. The course work prepares students for various career paths including the financial service industry (banks, savings and loans, credit unions, mortgage and thrift companies), commercial and retail credit analysis, credit granting and collections. In addition, finance and credit majors can apply their skills in other areas such as cash management, insurance, real estate, brokerage and investment activities of financial management. Additionally, training in accounting, computer application, economics, business management and communication skills is emphasized as part of the finance program.

The Finance and Credit Certificate and Associate of Applied Science degree are designed to provide training for employment as financial service representatives, consumer lenders, mortgage loan processors, insurance assistant underwriters, credit clerks and others. Students who are interested in pursuing courses leading to a Bachelor's degree in Finance should follow courses listed in Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

Career Opportunities: Opportunities in the field of finance and credit are broad and diverse. They include, but not limited to: Financial analysis, commercial banking, consumer banking, credit analysis, lending, trust services, mortgage lending, management, securities. Careers include all facets of government (federal, state, local) and private industry.

Transfer/Articulation Information: Transfer Information: This is a 2-year terminal degree. Several courses are transferable to other institutions. Students should check with the receiving institution to determine credit transferability.

Estimated Cost for Students: Varies with course selection and credit hours.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: The Finance and Credit associate degree program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree-granting business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Prepare personal financial mgmt docs. 1.2 Perform steps of financial planning and investments. 1.3 Identify financial service products and lending criteria. 1.4 Perform steps to evaluate personal and corporate credit financial analysis. 1.5 Perform steps of macro and micro economic analysis.	1 – Substantive Knowledge
2.1 Communicate effectively in writing. 2.2 Communicate effectively while working in groups. 2.3 Communicate effectively numerically.	2 – Communicate Effectively
3.1 Perform appropriate financial calculations. 3.2 Solve problems using the time value of money. 3.3 Perform macro and micro economic calculations.	3 – Develop Quantitative Literacy
4.1 Extract relevant data from complex information, process it, and draw reasonable conclusions.	4 – Think Critically

5.1 Understand the political, historical, social, and economic foundations of the local, national, and global communities. 5.2 Engage in principled and vigorous dialogue.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Bus Communications	3	A	ENGL 1010 w/C grade or better

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional three to six credits (one to two courses) from two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (41 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Fin Acct	3	A	
ACCT 2020	Managerial Acct	3	A	ACCT 1110 or ACCT 2010, and CIS 1020 or challenge exam
BUS 1050	Foundations of Bus	3	A	
MKTG 1480	Sales	3	Sp	
ECON 2010	Microeconomics	3	A	
ECON 2020	Macroeconomic	3	A	
FIN 1050	Personal Financ	3	A	
FIN 1210	Principles Banking	2	F, Sp	
FIN 2100	Intro to Investments	3	F, Sp	Recommended: FIN 1050
FIN 2200	Personal Fin Plan	3	Sp	Recommended: FIN 1050
FIN 2210	Principles of Business Credit	3	A	Recommended: ACCT 1110 or ACCT 1220
MGT 2050	Legal Env Bus	3	A	Recommended: BUS 1050

FINANCE AND CREDIT ELECTIVE COURSES: (SELECT 7 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ECON 1010	Econ as Social Sci	3	A	
ECON 1400	Econ Hist Amer Labor	3	WSD	
ECON 1600	Intro Econ Systems	3	F,Sp	
ECON 1740	Econ History of US	3	A	
ECON 2100	Labor Economic	3	F, Sp	ECON 2010
ECON 2200	Money & Bankng	3	WSD	
ECON 2400	Intl Econ/Finance	3	F, Sp	ECON 2010 or ECON 2020 (may be taken concurrently)
ECON 2990	Special Studies	1-3	TBA	Instructor approval
FIN 2000	CO-OP	1-3	A	2.0 GPA with 20 hours per week study related work

FIN 2040	Financial Mngmt	3	WSD	ACCT 2020
FIN 2150	Mutual Funds	3	WSD	FIN 1050
FIN 2220	Fin Statement Analysis	2	WSD	FIN 2210, and ACCT 1120 or ACCT 2010 (all may be taken concurrently)
FIN 2240	Credit Law	2	WSD	Recommended: FIN 2210
FIN 2600	Securities Trading I	3	F, SP	Recommended: FIN 1050
FIN 2950	Business Leaders Forum	1	F,S	
FIN 2990	Spec Studies in Fin	1-3	TBA	Instructor approval

WSD = With Sufficient Demand

NOTE: Students may use ECON 1010 to meet General Education or Finance and Credit Elective requirement, but not both.

ELECTIVE COURSES: (CHOOSE 5 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
BUS 1910	Special Projects (PBL)	2	TBA	
BUS 1100	Applied Bus Calculus	3	A	MATH 1050 or MATH 1090
MKTG 1030	Intro to Marketing	3	A	CIS 1020 or competency exam
MKTG 1050	Consumerism (ID)	3	A	
MGT 2040	Business Statistics I	4	A	MATH 1010 or FIN 1380, and CIS 1020
MGT 2600	Intl Trade Business	3	Sp	BUS 1050 or ECON 2020
MGT 2950	Business Leaders Forum	1	F, Sp	

NOTE: Students may use MKTG 1050 to meet General Education or Elective requirement, both not both.
MGT 2950 cannot meet elective requirement if FIN 2950 is taken to meet Finance and Credit elective requirements.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
BUS 1050	3	ACCT 2010	3
MKTG 1010	2	ECON 2010	3
FIN 1050	3	ENGL 1010	3
FIN 1210	2	FIN 2100	3
FIN 2950	1	FIN ELEC	5
DISTRIBUTION (2)	6		
Total	**17**	**Total**	**17**

FALL SEMESTER		SPRING SEMESTER	
ACCT 2020	3	FIN 2600	3
BUS 2200	3	ECON 1600	3
ECON 2020	3	FIN ELEC	2
FIN 1380	3	ELEC	3
FIN 2210	3	MKTG 1960	3
MGT 2050	3		
Total	**17**	**Total**	**14**

Advising Notes: General Education and elective courses provide training in effective oral and written communication and human relation skills. BUS 1050 is taught using group and team activities in the learning process to develop the student's interactive skills and to build human values and ethics.

The classes designed to assist students in reaching the necessary skill level to enter the certificate and degree programs are MATH 0990 (Elementary Algebra) and CIS 1020 (Computer Essentials). Any class in the preparatory skills may be waived if the student can demonstrate equivalent skills. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

Students who wish to take the CIS 1020 Computer Essentials challenge exam are advised to review the information at http://www.slcc.edu/csis/CIS1020-challenge-exam.aspx. An 80% or higher is required on each section of the test.

Cooperative Education is the College's strategy for recognizing and rewarding new learning associated with study-related employment in a business, industrial or government work environment. Credit earned from FIN 2000 is applied toward

graduation requirements as finance elective credit. Students are eligible for FIN 2000 Co-op after completion of a minimum of 12 credits of Finance courses.

The department strongly recommends that students enhance their employment opportunities through Cooperative Education as soon as skills permit, to complement the certificate or degree. Contact CO-OP Education at (801) 957-4014.

FINANCE AND CREDIT – CERTIFICATE OF COMPLETION[CTE] 34 credits minimum

Accounting, Economics and Finance Division
Taylorsville Redwood Campus, BB 105
General Information, (801) 957-4073
Information, (801) 957-4325
www.slcc.edu/financeandcredit
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – A. Marlon Andrus, Joseph R. Howell, Jr., K. T. Magnusson
Associate Professors – Dennis Wilson, Dennis R. Watson
Assistant Professors – Rungrudee Suetorsak, Heather Schumacker

The need for sound financial investments will grow because monetary transactions are and will continue to be the life-blood of every business and organization. The course work prepares students for various career paths including the financial service industry (banks, savings and loans, credit unions, mortgage and thrift companies), commercial and retail credit analysis, credit granting and collections. In addition, finance and credit majors can apply their skills in other areas such as cash management, insurance, real estate, brokerage and investment activities of financial management. Additionally, training in accounting, computer application, economics, business management and communication skills is emphasized as part of the finance program.

The Finance and Credit Certificate and Associate of Applied Science degree are designed to provide training for employment as financial service representatives, consumer lenders, mortgage loan processors, insurance assistant underwriters, credit clerks and others. Students who are interested in pursuing courses leading to a Bachelor's degree in Finance should follow courses listed in Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

REQUIRED COURSES: (24 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Fin Acct	3	A	
BUS 1050	Foundations of Bus	3	A	
BUS 2200	Bus Communications	3	A	ENGL 1010 w/C grade or better
MKTG 1480	Sales	3	Sp	
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
FIN 1050	Personal Fin	3	A	
FIN 1380	Financial Math	3	A	MATH 0990 or CPT

CHOOSE ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 2010	Microeconomics (SS)	3	A	
OR				
ECON 2020	Macroeconomics (SS)	3	A	

FINANCE ELECTIVES: (SELECT 10 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
BUS 1910	Special Projects (PBL)	2	TBA	
ECON 1010	Econ as Social Science	3	A	
ECON 1400	Econ Hist Amer Labor	3	WSD	
ECON 1600	Intro Econ Systems	3	F	
ECON 1740	Econ History of US	3	A	
ECON 2010*	Microeconomics	3	A	
ECON 2020*	Macroeconomics	3	A	
ECON 2100	Labor Economic	3	F, Sp	ECON 2010
ECON 2400	Intl Econ/Finance	3	F, Sp	ECON 2010 or ECON 2020 (may be taken concurrently)
FIN 1210	Principles Banking	2	F, Sp	
FIN 2000	CO-OP	1-3	A	2.0 GPA with 20 hours per week study related work
FIN 2150	Mutual Funds	3	WSD	FIN 1050
FIN 2200	Personal Fin Plan	3	Sp	Recommended: FIN 1050

FIN 2210	Principles of Business Credit	3	A	Recommended: ACCT 1110 or ACCT 1220
FIN 2950	Business Leaders Forum	1	F, Sp	
FIN 2990	Spec Studies in Finance	1-3	TBA	Instructor approval
MGT 2050	Legal Env Bus	3	A	Recommended: BUS 1050

*Whichever course is not used to Satisfy Course Requirement.
WSD = With Sufficient Demand

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
BUS 1050	3	ACCT 2010	3
MKTG 1010	2	BUS 2200	3
ENGL 1010	3	FIN 1380	3
FIN 1050	3	FIN 2950	1
FIN ELEC (2)	6	FIN ELEC	4
		ECON 2010/2020	3
Total	**17**	**Total**	**17**

Advising Notes: Any class in the preparatory skills may be waived if the student can demonstrate equivalent skills. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

FINANCE ESSENTIALS – CERTIFICATE OF PROFICIENCY[CTE] — 16 credits minimum

Division of Accounting, Finance and Economics
Taylorsville Redwood Campus, BB 105, (801) 957-4325
General Information, (801) 957-4073
www.slcc.edu/financeandcredit
FIN/ECON Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – A. Marlon Andrus, Joseph R. Howell Jr., K.T. Magnusson
Associate Professors – Dennis Wilson, Dennis R. Watson
Assistant Professors – Rungrudee Suetorsak, Heather Schumacker

Program Description: The Finance Essentials Certificate of Proficiency provides the student with a foundation in finance and related disciplines preparatory to entering the field of finance from the perspective of financial service provider, an investment manager or from the perspective of a financial manager. The Certificate of Proficiency also interfaces with continued study toward an SLCC AAS degree in Finance or Business.

Career Opportunities: Financial services representative, financial management, insurance planning, stock broker.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Demonstrate an understanding of Time Value of Money. 2. Integrate principle of finance with principles of economics such as marginal analysis, profit maximization, and cost management. 3. Demonstrate an understanding of the language of accounting in the context of both business and personal financial matters.	1 – Substantive Knowledge
Demonstrate an understanding of the language of accounting in the context of both business and personal financial matters.	2 – Communicate Effectively
Demonstrate the application of accounting and financial statements in decision making.	3 – Develop Quantitative Literacy
Be able to relate abstract economic and financial data to individual, family, business, and economy-wide problems with an eye toward planning and solving diverse problems.	4 – Think Critically
Participate as a member of a student group in evaluating current topical discussions and themes as they relate to finance and economics.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2310	Intermediate Accounting I	4	F, Sp	ACCT 1120 or ACCT 2010 BB w/ instructor approval
CSIS 2010	Business Computer Proficiency	3	F, Sp	
ECON 2020	Macroeconomics	3	F, Sp	
FIN 1210	Principles of Banking	3	F, Sp	
BUS 1100	Business Calculus	3	A	MATH 1050, 1090, or appropriate placement test score
OR				
MGT 2040	Business Statistics	4	A	MATH 1010, FIN 1380, or appropriate placement test score

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2310	4	BUS 1100 or MGT 2040	3-4
CSIS 2010	3	FIN 1210	3
ECON 2020	3		
Total	**10**	**Total**	**6-7**

FINANCIAL MANAGEMENT – CERTIFICATE OF PROFICIENCY[CTE] — 16 credits minimum

Division of Accounting, Finance and Economics
Taylorsville Redwood Campus, BB 105, (801) 957-4325
General Information, (801) 957-4073
www.slcc.edu/financeandcredit
FIN/ECON Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – A. Marlon Andrus, Joseph R. Howell Jr., K.T. Magnusson
Associate Professors – Dennis Wilson, Dennis R. Watson
Assistant Professors – Rungrudee Suetorsak, Heather Schumacker, Dennis Watson

Program Description: The Financial Management Certificate of Proficiency offers basic training and competency in managing the finances of small business and corporations. Students gain experience in capital budgeting, cash budgeting, financial statement analysis, cost management, credit management and operations management. All this to the end that students may have the intellectual capital necessary to successfully manage the financial concern of businesses they serve.

Career Opportunities: Chief Financial Officer, credit manager, collections manager, bank manager, bank lender.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will gain competency in applying investment valuation and investment discipline and investment tools both in the management of their own portfolios and those individuals they are able to serve in a professional financial services environment.	1 – Substantive Knowledge
Through group case studies and classroom interaction students will learn to articulate financial and economic argument and logic.	2 – Communicate Effectively
Demonstrate accuracy in investment valuation, financial statement analysis, portfolio management and trading account management.	3 – Develop Quantitative Literacy
Apply rigorous finance and accounting methodologies in creative and changing investment environments. .	4 – Think Critically
Participate as a member of a student group in evaluating current topical discussions and themes as they relate to finance, investments & trading.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES (16 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2410	Intermediate Accounting II	4	F, Sp	ACCT 2310
FIN 2040	Financial Management	3	F, Sp	ACCT 2020, FIN 1380
FIN 2210	Principles of Business Credit	3	F, Sp	Recommended: ACCT 1110
CSIS 2060	Decision Support	3	F, Sp	CSIS 2010
Choose 3 credits from the following:				
ACCT 2540	Accounting in Practice	3	Sp	ACCT 2410
FIN 2100	Introduction to Investments	3	F	FIN 1050

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2410	4	FIN 2210	3
FIN 2040	3	ACCT 2540 or FIN 2100	2
CSIS 2060	3		
Total	**10**	**Total**	**6**

FINANCIAL SERVICES – CERTIFICATE OF PROFICIENCY[CTE] — 17 credits minimum

Division of Accounting, Finance and Economics
Taylorsville Redwood Campus, BB 105, (801) 957-4325
General Information, (801) 957-4073
www.slcc.edu/financeandcredit
FIN/ECON Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – A. Marlon Andrus, Joseph R. Howell Jr., K.T. Magnusson
Associate Professors – Dennis Wilson, Dennis R. Watson
Assistant Professors – Rungrudee Suetorsak, Heather Schumacker

Program Description: The Finance Services Certificate of Proficiency provides the student with a foundation in banking and financial services. Included are the study of personal financial planning, personal taxation, investments and consumer credit and credit law. Students will have the competencies required to fill the needs of an ever more diverse cadre of financial service providers.

Career Opportunities: Financial services representative, stock broker, insurance agent, bank lending officer and several other finance related businesses.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate competencies in assessing the value of financial assets used as investments. They will be competent in providing basic financial planning information in the areas of money management, consumer credit, purchasing strategies for major assets like home and car. Additionally, students will be able to provide basic income tax and legal strategies to minimize taxes and maximize real rates of return.	1 – Substantive Knowledge
Through written assignments, group projects and personal financial presentations, students will gain experience and confidence in understanding and communicating the value of financial services.	2 – Communicate Effectively
Students will understand the application of time value of money and specific valuation forms for common and preferred stock, bonds, and real estate. Students will be able to advise and prepare basic individual income tax.	3 – Develop Quantitative Literacy
Be able to relate abstract economic and financial data to individual, family, business, and economy-wide problems with an eye toward planning and solving diverse problems through the use of specific financial services.	4 – Think Critically
Participate as a member of a student group in evaluating current topical discussions and themes as they relate to financial services.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2520	Federal Income Tax	3	F, Sp	ACCT 1120 or ACCT 2010
FIN 2040	Financial Management	3	F	ACCT 2020
FIN 2100	Introduction to Investments	3	F, Sp	Recommended: FIN 1050
FIN 2200	Personal Financial Planning	3	F, Sp	Recommended: FIN 1050
MKTG 1300	Business Presentations	2	F	
MKTG 1480	Sales	3	Sp	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2520	3	FIN 2040	3
FIN 2100	3	FIN 2200	3
MKTG 1480	3	MKTG 1300	2
Total	**9**	**Total**	**8**

INVESTMENTS & TRADING – CERTIFICATE OF PROFICIENCY[CTE] — 20 credits minimum

Division of Accounting, Finance and Economics
Taylorsville Redwood Campus, BB 105, (801) 957-4325
General Information, (801) 957-4073
www.slcc.edu/financeandcredit
FIN/ECON Academic Advisor, BB 132, (801) 957-4323

Program Faculty:
Professors – A. Marlon Andrus, Joseph R. Howell Jr., K.T. Magnusson
Associate Professors – Dennis Wilson
Assistant Professors – Rungrudee Suetorsak, Heather Schumacker, Dennis Watson

Program Description: The Investments and Trading Certificate of Proficiency offers basic training and in personal investment portfolio management with a focus on risk management to include diversification and asset allocation. Additionally, student will gain competency in basic trading principles for use in both short-term and long term trading environments. With trading, students will gain competencies in money management and the implementation of trading plans and trading rules.

Career Opportunities: Stock broker (license required), investment advisor (license required), portfolio manager, financial planning, insurance planning, bank investment management.

NOTE: This Certificate of Proficiency is eligible for financial aid if it is a part of a financial aid eligible program such as an AS or AAS degree. Courses within the certificate may also be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if the Certificate of Proficiency and classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will gain competency in applying investment valuation and investment discipline and investment tools both in the management of their own portfolios and those individuals they are able to serve in a professional financial services environment.	1 – Substantive Knowledge
Through group case studies and classroom interaction students will learn to articulate financial and economic argument and logic.	2 – Communicate Effectively
Demonstrate accuracy in investment valuation, financial statement analysis, portfolio management and trading account management.	3 – Develop Quantitative Literacy
Apply rigorous finance and accounting methodologies in creative and changing investment environments. .	4 – Think Critically
Participate as a member of a student group in evaluating current topical discussions and themes as they relate to finance, investments & trading.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CSIS 2040	Advanced Spreadsheets	3	F, Sp	CSIS 2010
FIN 2100	Introduction to Investments	3	F	Recommended: FIN 1050
FIN 2150	Mutual Funds	3	WSD	Recommended: FIN 1050
FIN 2200	Personal Financial Planning	3	Sp	Recommended: FIN 1050
FIN 2210	Principles of Business Credit	3	F, Sp	
FIN 2220	Financial Statement Analysis	2	Sp	ACCT 1110 or ACCT 2010, and FIN 2210
FIN 2600	Securities Trading	3	Sp	Recommended: FIN 1050

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CSIS 2040	3	FIN 2200	3
FIN 2100	3	FIN 2220	2
FIN 2150	3	FIN 2600	3
FIN 2210	3		
Total	**12**	**Total**	**8**

FITNESS TECHNICIAN– ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 64 credits minimum

Health and Lifetime Activities Department
Taylorsville Redwood Campus, LAC 201, (801) 957-5055
General Information: (801) 957-7522
www.slcc.edu/hla
Academic Advisor: Devan Church, SI 209, (801) 957-4858
Program Advisor: LAC 221, (801) 957-5013

Program Faculty:
Associate Professors - Dollie Richards, Jean Widdison
Assistant Professors – Chad Harbaugh, Maryln Harmer, Julie Morgan, Paul Roberts, Julia Erbacher, L. Nate Thomas

Program Description: The Fitness Technician Program is designed to train students to meet the growing demand in the fitness profession for personal trainers. Core courses include curriculum in nutrition, kinesiology, exercise physiology, client motivation, fitness assessment, program design and principles of weight training, flexibility, and cardio fitness. An internship of 120 hours is required to complete the degree.

Successful completion of the program prepares the graduate to sit for a certification from various national certifying organizations including (but not limited to): the American College of Sport Medicine (ACSM), the National Academy of Sports Medicine (NASM), the National Strength and Conditioning Association (NSCA), and the American Council on Exercise (ACE).

Career Opportunities: There is a need for well-trained Personal Trainers/Fitness Consultants.

Transfer/Articulation Information: Program is not meant to transfer/articulate as it is meant to lead directly into a fitness career. Some classes do transfer to four year institutions, check with their advisors for transfer information.

Program Entry Requirements: Open enrollment program

Program/Course Fees: HLTH 1200 requires a $50 course fee

Estimated Cost for Students: Beyond SLCC tuition and fees, total textbook cost is approximately $1,200

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters

Specialized Accreditation: Opportunity to certify through the American College of Sports Medicine (ACSM), taken during HLTH 2430.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will demonstrate knowledge of human anatomy and physiology, as they relate to movement and exercise.	1, 3, 7
Students will demonstrate an understanding of strength, flexibility, and cardiorespiratory training principles.	1
Students will demonstrate knowledge of and the skills to evaluate and assess health and fitness levels in potential clients, using current industry markers.	1, 2, 4, 7
Students will demonstrate the knowledge and skill of behavior modification and motivational interview techniques when working with	1, 2, 4

fitness clients.	
Students will demonstrate an understanding of the fitness industry business practices, certifications, ethics, laws, scope of practice and professionalism.	1, 2, 5
Students will demonstrate the knowledge necessary to design and implement a fitness program specific to client goals, age, gender, fitness levels, and physical limitations.	1, 2, 4
Students will certify with a nationally recognized certifying body preparing them for work in the fitness industry.	1, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math (QS)	3	A	MATH 0990 or appropriate Accuplacer score

OR

Any approved QS course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Eff Comm	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1010	Customer Service	3	A	
OR				
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional course (three credits) from one of the following distribution areas:

COURSE	CR
*Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
*Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

*__NOTE__: BIOL 1090, HLTH 1050, HLTH 1500 cannot be used for General Education Distribution credit.

REQUIRED COURSES: (44 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*BIOL 1090	Human Biology	3	A	
HLAC 1062	Flexibility for Fitness	1	A	
HLAC 2105	Prin Cardiorespitory Train	1	A	
HLAC 2110	Prin Weight Training	1	A	
HLTH 1020	Foundations Nutrition	3	A	
HLTH 1200	First Aid/Safety	3	A	
*HLTH 1500	Lifetime Wellness & Fit	3	A	
HLTH 2021	Nutrition for Fit & Sport	3	A	HLTH 1020
HLTH 2100	Fit Motivation & Beh Resp	3	A	
HLTH 2200	Kinesiology	3	A	BIOL 1090
HLTH 2250	Exercise Physiology	3	A	BIOL 1090

HLTH 2400	Exercise Special Populations	3	F, Sp	HLTH 2250
HLTH 2415	Functional Performance	2	A	HLTH 2200
HLTH 2425	Eval & Assess of Fitness	3	A	HLTH 2200
HLTH 2430	Design Fitness Trn Prog	3	F, Sp	HLTH 2425
HLTH 2435	Personal Fit Trn Industry	3	F, Sp	
HLTH 2450	Personal Trainer Internship	3	F, Sp	Instructor approval

COMPLETE ONE HEALTH ELECTIVE COURSE: (3 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*HLTH 1050	Life, Society, and Drugs	3	A	
HLTH 1255	Mind/Body Connection	3	F, Sp	
HLTH 1325	Intro Group Fitness Instructor	3	A	
HLTH 1350	Intro Yoga Instructor Train	3	A	HLAC 1057, 1058 or Personal Practice

ELECTIVE COURSES: (SELECT 4 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
HLAC 1000	Cardio Fitness	1	A	
HLAC 1013	Body Strength & Tone	1	A	
HLAC 1014	CrossFit	1	A	
HLAC 1015	Spinning	1	A	
HLAC 1020	Step	1	A	
HLAC 1025	Interval Training	1	A	
HLAC 1030	Kickboxing	1	A	
HLAC 1035	Zumba	1	A	
HLAC 1051	TRX	1	A	
HLAC 1052	Boot Camp	1	A	
HLAC 1055	Pilates I	1	A	
HLAC 1057	Yoga I	1	A	
HLAC 1096	Fitness for Life	1	A	

SAMPLE SCHEDULE

FIRST SEMESTER		SECOND SEMESTER	
ENGL 1010	3	COMM 1010	3
BIOL 1090	3	HLAC CHOICE	1
HLTH 1020	3	HLAC 1062	1
HLTH 1200	3	HLTH ELEC	3
HLAC 2105	1	HLTH 2021	3
HLAC 2110	1	HLTH 2100	3
HLAC CHOICE	1	HLTH 2200	3
HLAC CHOICE	1		
Total	**16**	**Total**	**17**
THIRD SEMESTER		**FOURTH SEMESTER**	
FIN 1380	3	MKTG 1960	3
HLTH 1500	3	DISTRIBUTION	3
HLTH 2250	3	HLAC CHOICE	1
HLTH 2425	3	HLTH 2400	3
HLTH 2435	3	HLTH 2430	3
HLTH 2415	2	HLTH 2450	3
Total	**17**	**Total**	**16**

GENERAL STUDIES – ASSOCIATE OF ARTS (AA) 61 credits minimum

Taylorsville Redwood Campus
General Information, (801) 957-4073
www.slcc.edu/gened
Academic Advising, SC 240, (801) 957-4978

Program Description: The General Studies Associate of Arts degree is a flexible transfer program that is designed for students who complete or test out of a two-semester foreign language series and either have not decided upon a major or need to customize their courses for transfer to a specific baccalaureate degree program. Students who have not yet chosen a major are encouraged to explore their interests by selecting courses from a variety of disciplines. Students who have identified a future major may select classes that satisfy specific prerequisite and pre-major requirements for their intended baccalaureate degree. Since different universities have different degree requirements, students are encouraged to select appropriate courses that will satisfy requirements at their anticipated transfer institution.

The General Studies Associate of Arts degree requires a minimum of 61 semester hours of transferable credit with a cumulative grade-point average of 2.0 or better (2.5 or better is recommended). The AA degree also requires successful completion of any language course at the 1020 level or higher as part of the 27 credits beyond general education. These courses are listed as (LN). This requirement may also be fulfilled by taking the second-year courses 2010 and/or 2020 or through experiential language credit options.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information, also available at www.slcc.edu/academicadvising/transfercenter.

Students should also be advised that a Bachelor of Arts (BA) will require four semesters or more of a foreign language and many four-year institutions may require those courses to be taken consecutively. SLCC also offers a wider selection of languages than many transfer institutions; it may not be possible to continue study of a specific language after transfer. Students should check with the institution to which they plan to transfer.

Estimated Cost for Students: There is no additional cost for this program beyond SLCC tuition and fees.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Acquire substantive knowledge throughout the General Education Core and Distribution areas	1 - Acquire substantive knowledge throughout the General Education Core and Distribution areas
Communicate effectively	2 - Communicate effectively
Develop quantitative literacies necessary for student's chosen field of study	3 - Develop quantitative literacies necessary for student's chosen field of study
Think critically and creatively	4 - Think critically and creatively
Develop the knowledge and skills to be a community engaged learner and scholar	5 - Develop the knowledge and skills to be a community engaged learner and scholar
Develop the knowledge and skills to work with others in a professional and constructive manner	6 - Develop the knowledge and skills to work with others in a professional and constructive manner
Develop computer and information literacy	7 - Develop computer and information literacy
Develop the attitudes and skills for lifelong wellness	8 - Develop the attitudes and skills for lifelong wellness

GENERAL EDUCATION REQUIREMENTS: (34 CREDITS)

CORE SKILLS –
COMPOSITION (EN): 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL): CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry (QL)	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1080	Precalculus (QL)	5	A	Appropriate Accuplacer score within the last year
MATH 1090	College Algebra-Bus (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I (QL)	4	A	Within last year MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI): CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
OR				
HIST 2700	US History to 1877 (SS)	6	A	
& HIST 2710	US History Since 1877 (SS)			

INSTITUTIONAL REQUIREMENTS –
LIFELONG WELLNESS (LW): 1 CREDIT

STUDENT CHOICE (IN OR DEPTH): 3 CREDITS

INTENSIVE (IN)

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Comm (CM,IN)	3	A	
COMM 1010	Elem Effective Comm (CM,IN)	3	A	
COMM 1020	Prin Public Speaking (CM,IN)	3	A	
COMM 1270	Analysis of Argument (IN)	3	F, Sp	
PHIL 1250	Reasn/Ratl Dec Making (IN)	3	A	
TECH 1030	Complex Devices Simple(IN)	3	F,Sp	
OR				

DEPTH

Any second course from one of the Distribution Areas

DISTRIBUTION AREAS: 18 CREDITS

Choose one course (three credit hours) from each of the following distribution areas. Once of the courses must also be a Diversity course (DV).

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Physical Science (PS)	3		
Social Science (SS)	3		

REQUIRED COURSES: (27 CREDITS)

LANGUAGE (LN) – 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
LANG 1020	(LN)	5		LANG 1010

NOTE: *LANG prefix does not exist—that prefix would be replaced by the prefix for the individual language chosen: ARB, CHI, FRN, GER, ITL,JPN, NAV, POR, RUS, SAM, SPN, TNG

ELECTIVES – 22 CREDITS

Complete twenty-two (22) credit hours from any college course numbered 1000 or above and not duplicative of General Education courses above or other college courses.

A maximum of two credits from Health and Lifetime Activities (HLAC) beyond the Lifetime Wellness (LW) requirement may be applied to required courses.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	STUDENT CHOICE	3
QL	3-4	ENGL 2010/2100	3
AI	3	DISTRIBUTION (2)	6
REQ (2)	6	REQ	3
		LW	1
Total	**15-16**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
LANG 1020	5	REQ (3)	9
REG	4		
Total	**15**	**Total**	**15**

Advising Notes: Students who need to take preparatory classes to meet prerequisites of first semester courses should plan extra time to complete the program. Students wishing to transfer to a specific program at a four-year institution should check with that institution to ensure that all courses are taken.

Students pursuing a degree in General Studies should consult with academic advisors and/or receiving institutions in selecting core mathematics courses. Usually MATH 1050 is appropriate for students intending to major in physical, computational and biological sciences, engineering and other applied science fields; MATH 1030 is appropriate for liberal arts students, MATH 1040 is appropriate for students intending to major in social sciences, behavioral sciences, humanities and the health sciences; MATH 1090 is appropriate for students intending to major in Business.

It is the student's responsibility to examine each course description for details on prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

GENERAL STUDIES – ASSOCIATE OF SCIENCE (AS) 61 credits minimum

Taylorsville Redwood Campus
General Information, (801) 957-4073
www.slcc.edu/gened
Academic Advising, SC 240, (801) 957-4978

Program Description: The General Studies Associate of Science degree is SLCC's most flexible transfer program and is designed for students who either have not decided upon a major or need to customize their courses for transfer to a specific baccalaureate degree program. Students who have not yet chosen a major are encouraged to explore their interests by selecting courses from a variety of disciplines. Students who have identified a future major may select classes that satisfy specific prerequisite and pre-major requirements for their intended baccalaureate degree. Since different universities have different degree requirements, students are encouraged to select appropriate courses that will satisfy requirements at their anticipated transfer institution.

The General Studies Associate of Science degree requires a minimum of 61 semester hours of transferable credit with a cumulative grade-point average of 2.0 or better (2.5 or better is recommended).

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information, also available at www.slcc.edu/academicadvising/transfercenter.

Estimated Cost for Students: There is no additional cost for this program beyond SLCC tuition and fees.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Acquire substantive knowledge throughout the General Education Core and Distribution areas	1 - Acquire substantive knowledge throughout the General Education Core and Distribution areas
Communicate effectively	2 - Communicate effectively
Develop quantitative literacies necessary for student's chosen field of study	3 - Develop quantitative literacies necessary for student's chosen field of study
Think critically and creatively	4 - Think critically and creatively
Develop the knowledge and skills to be a community engaged learner and scholar	5 - Develop the knowledge and skills to be a community engaged learner and scholar
Develop the knowledge and skills to work with others in a professional and constructive manner	6 - Develop the knowledge and skills to work with others in a professional and constructive manner
Develop computer and information literacy	7 - Develop computer and information literacy
Develop the attitudes and skills for lifelong wellness	8 - Develop the attitudes and skills for lifelong wellness

GENERAL EDUCATION REQUIREMENTS: (34 CREDITS)

CORE SKILLS –

COMPOSITION (EN): 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL): CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry (QL)	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1080	Precalculus (QL)	5	A	Appropriate Accuplacer score within the last year
MATH 1090	College Algebra-Bus (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I (QL)	4	A	Within last year MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI): CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
OR				
HIST 2700 & HIST 2710	US History to 1877 (SS) US History Since 1877 (SS)	6	A	

INSTITUTIONAL REQUIREMENTS –
LIFELONG WELLNESS (LW): 1 CREDIT

STUDENT CHOICE (IN OR DEPTH): 3 CREDITS

INTENSIVE (IN)

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Comm (CM,IN)	3	A	
COMM 1010	Elem Effective Comm (CM,IN)	3	A	
COMM 1020	Prin Public Speaking (CM,IN)	3	A	
COMM 1270	Analysis of Argument (IN)	3	F, Sp	
PHIL 1250	Reasn/Ratl Dec Making (IN)	3	A	
TECH 1030	Complex Devices Simple(IN)	3	F,Sp	
OR				
DEPTH				

Any second course from one of the Distribution Areas

DISTRIBUTION AREAS: 18 CREDITS

Choose one course (three credit hours) from each of the following distribution areas. Once of the courses must also be a Diversity course (DV).

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Physical Science (PS)	3		
Social Science (SS)	3		

REQUIRED COURSES: (27 CREDITS)

Complete twenty-seven (27) credit hours from any college course numbered 1000 or above and not duplicative of General Education courses above or other college courses.

A maximum of two credits from Health and Lifetime Activities (HLAC) beyond the Lifetime Wellness (LW) requirement may be applied to required courses.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	STUDENT CHOICE	3
QL	3-4	ENGL 2010/2100	3
AI	3	DISTRIBUTION (2)	6

REQ (2)	6	REQ	3
		LW	1
Total	**15-16**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
REQ (3)	9	REQ (3)	9
Total	**15**	**Total**	**15**

Advising Notes: Students who need to take preparatory classes to meet prerequisites of first semester courses should plan extra time to complete the program. Students wishing to transfer to a specific program at a four-year institution should check with that institution to ensure that all courses are taken.

Students pursuing a degree in General Studies should consult with academic advisors and/or receiving institutions in selecting core mathematics courses. Usually MATH 1050 is appropriate for students intending to major in physical, computational and biological sciences, engineering and other applied science fields; MATH 1030 is appropriate for liberal arts students, MATH 1040 is appropriate for students intending to major in social sciences, behavioral sciences, humanities and the health sciences; MATH 1090 is appropriate for students intending to major in Business.

It is the student's responsibility to examine each course description for details on prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

ENVIRONMENTAL GEOLOGY – ASSOCIATE OF SCIENCE^{CTE} (AS) 63 credits minimum

Division of Natural Science
Taylorsville Redwood Campus, SI 345
General Information, (801) 957-4073
Program Information, (801) 957-4150
www.slcc.edu/geoscience
Academic Advisor, SI 209, (801) 957-4858

Faculty:
Associate Professors: Frank Komatar
Instructor: Robert Dastrup, Lauren Parker

Program Description: This program provides a broad base of technical skills for information gathering and analysis as well as strong emphasis in physical geography and geology and an understanding of regional and global cultural aspects of the world. It provides a global awareness, creates a background for job opportunities and applications.
This program meets the needs of vocationally-oriented students with a two-year degree goal and also provides a solid foundation for a four-year degree program.

The program provides students with elective options so that they may take courses that apply to major requirements at the four-year institutions to which they intend to transfer. In selecting applicable electives, students should see the transfer recommendations as well as consult an SLCC academic advisor and the department at the four-year institution to which they intend to transfer. Acceptance into the major program is determined by the receiving institution.

Transfer/Articulation: Requirements at four-year institutions are subject to change; on-going planning is essential. Completing the following requirements prepares students to apply for transfer to a majors program in Geology or Environmental Earth Science at a four-year institution.

Option I is designed for students transferring to the University of Utah, Utah State University, Southern Utah University or Utah Valley University
Option II is designed for students transferring to Weber State University

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

TRANSFER RECOMMENDATIONS FOR SELECTING ELECTIVES
Courses listed below may be taken at SLCC according to the program and institution to which students intend to transfer. Students are advised to contact the program advisor at SLCC and at their transfer school.

UNIVERSITY OF UTAH - Geology
CHEM 1220/1225, MATH 1220, PHYS 2220/2225.

UTAH STATE UNIVERSITY – General Geology
CHEM 1220/1225, MATH 1220, PHYS 2220/2225 and CS 1400

WEBER STATE UNIVERSITY – Applied Environmental Geoscience
BIOL 1030/1035, CHEM 1220/1225, ENGL 2100, MATH 1040 and PHYS 2020/2025 or PHYS 2220/2225

WEBER STATE UNIVERSITY – Geology
CHEM 1220/1225, PHYS 2020/2025 or PHYS 2220/2225

SOUTHERN UTAH UNIVERSITY – Geology, Professional
CHEM 1220/1225, MATH 1220 and PHYS 2220/2225

UTAH VALLEY UNIVERSITY – Geology
CHEM 1220/1225, MATH 1220, MATH 2040 and PHYS 2220

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy 8 – Develop the attitudes and skills for lifelong wellness
1. Students will demonstrate the ability to… — describe the scientific principles that govern certain geologic processes. — distinguish between which resources are renewable and which are not. — apply definitions of terms unique and/or relevant to geology.	
2. Students will demonstrate the ability to… — use scientific principles to predict primary and secondary outcomes of certain geologic processes (e.g. volcanic eruptions, earthquakes, landslides, etc.) — use scientific knowledge and reasoning to predict possible scenarios how an ever increasing population can cope with a finite and/or decreasing amount of resources. — predict potentially negative secondary effects of human activities (dam building, well water pumping, land use, etc.) — determine alternative actions to compensate for the extinction of non-renewable resources. — apply scientific knowledge to predict potentially negative secondary effects of natural earth processes. — use scientific knowledge to predict the threats of an ever-increasing population present to the environment. — analyze how solutions to geologic problems may involve compromise between parties that have differing sets of values.	
3. Students will demonstrate the ability to… — compute doubling times and predict future populations at specified times when given various population growth rates. — extract various types of information from graphs, charts, and topographic maps. — apply flow charts and identification tables to identify various earth materials (e.g. rocks and minerals). — use appropriate instruments to make relevant measurements of geologic parameters including but not limited to linear distances, angles, density, strike and dip, bearings, and mineral hardness.	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1060	Trignometry	3	A	RDG 0990; within the last year MATH 1050 w/C grade or better or

				appropriate Accuplacer score
OR				
MATH 1210	Calculus I	4	A	Within the last year MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

NOTE: Physical Science (PS) general education component is satisfied through pre-major coursework.

REQUIRED COURSES: (SELECT OPTION I OR II)

OPTION I (18 CREDITS)

For students intending to transfer to the University of Utah, Utah State University, Utah Valley University or Southern Utah University

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	General Chem I	4	A	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Chem I Lab	1	A	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1210
GEO 1110	Phys Geology	3	F	Coreq: GEO 1115
GEO 1115	Phys Geolog Lab	1	F	Coreq: GEO 1110
GEO 1220	Historical Geol	3	Sp	GEO 1110 and GEO 1115. Coreq: GEO 1225
GEO 1225	Histor Geol Lab	1	Sp	Coreq: GEO 1220
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics f/Sci&Eng L I	1	A	MATH 1210. Recommended coreq: PHYS 2210
	Electives (see below)	14		

OPTION II (22 CREDITS)

For students intending to transfer to Weber State University

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	General Chem I	4	A	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Chem I Lab	1	A	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1210
GEO 1060	Environmtl Geol	3	Sp	Coreq: GEO 1065
GEO 1065	Envr Geol Lab	1	Sp	Coreq: GEO 1060
GEO 1110	Phys Geology	3	F	Coreq: GEO 1115
GEO 1115	Phys Geolog Lab	1	F	Coreq: 1110
GEO 1220	Historical Geol	3	Sp	GEO 1110 and GEO 1115. Coreq: GEO 1225

GEO 1225	Histor Geol Lab	1	Sp	Coreq: GEO 1220
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics f/Sci&Eng L I	1	A	MATH 1210. Recommended coreq: PHYS 2210
OR				
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
	Electives (see below)	11		

ELECTIVE COURSES: (11 – 14 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BIOL 2020	Cell Biology	4	F, Sp	BIOL 1610 w/C grade or better. Coreq: BIOL 2025
BIOL 2025	Cell Biology Lab	0	F, Sp	Coreq: BIOL 2020
BIOL 2030	Genetics	4	F	BIOL 1610 w/C grade or better AND CHEM 1210 w/C grade or better. Coreq: BIOL 2035
BIOL 2035	Genetics Lab	0	F	Coreq: BIOL 2030
CHEM 1220	General Chem II	4	A	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem II Lab	1	A	CHEM 1215. Recommended coreq: CHEM 1220
ENGR 1040	Engr Computing	3	F, Sp	MATH 1060 or 1080 (may be taken concurrently)
CS 1410	Obj. Oriented Progrmng	4	A	CS 1400
GEO 1060	Env Geology	3	Sp	Coreq: GEO 1065
GEO 1065	Env Geology Lb	1	Sp	Coreq: GEO 1060
GEO 2350	Field Studies	3	Su	instructor approval
MATH 1220	Calculus II	4	A	Within the last year, MATH 1210 w/C grade or better
MATH 2210	Multivar Calcu	3	A	Within the last year, MATH 1220 w/C grade or better
MATH 2250	Lin Alg/Diff Eq	4	F, Sp	Within the last year, MATH 1220 w/C grade or better
PHYS 2220	Physics f/Sci&Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2225	Physics f/Sci&Eng LII	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
CHEM 1210	4	MATH 1210	4
CHEM 1215	1	ENGL 2010	3
ENGL 1010	3	GEO 1220	3
GEO 1110	3	GEO 1225	1
GEO 1115	1	DISTRIBUTION (2)	6
DISTRIBUTION	3		
Total	**15**	**Total**	**17**

FALL SEMESTER		**SPRING SEMESTER**	
PHYS 2210	4	ELEC	9
PHYS 2215	1	AI	3
BIOL 1610/1615	4	STUDENT CHOICE	3
ELEC	5	LW	1
DISTRIBUTION	3		
Total	**17**	**Total**	**16**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated course may be taken. Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the full program. The semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

GEOGRAPHY – ASSOCIATE OF SCIENCE[CTE] (AS) — 63 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 345
General Information, (801) 957-4073
Program Information, (801) 957-4150
www.slcc.edu/geography
Academic Advisor, SI 209, (801) 957-4858

Faculty:
Associate Professors: Frank Komatar
Instructor: Robert Dastrup, Lauren Parker

Program Description: This program provides a broad base of technical skills for information gathering and analysis as well as strong emphasis in physical geography and geology and an understanding of regional and global cultural aspects of the world. It provides a global awareness, creates a background for job opportunities and applications. This program meets the needs of vocationally-oriented students with a two-year degree goal and also provides a solid foundation for a four-year degree program.

Transfer/Articulation: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Students will demonstrate the ability to… analyze natural processes and systems that dynamically influence the distribution of energy patterns around the planet (e.g. solar energy, atmospheric energy and temperatures, oceanic circulations. assess natural processes and systems that dynamically influence the patterns of weather and climate around the planet (e.g. hydrologic cycle, water resources, elements of weather, storm processes, climate systems, along with natural and anthropogenic climate change). analyze natural processes and systems that dynamically influence Earth's landscape (e.g. plate tectonics, earthquakes and volcanoes, weathering processes, and mass movement). analyze natural processes and systems that dynamically influence the distribution of karst, desert, river, ocean, coastal, and glacial landforms). assess the natural distribution and processes of ecosystems and biomes). determine the role humans' play in creating natural disasters according to categories such as population growth, poverty, environmental degradation, climate change, and politics along with ways to mitigate them. produce bodies of work demonstrating analytical skills in spatial thinking using geospatial technology as a way to analyze and assess Earth's natural processes.	1 – Substantive Knowledge
2. Students will demonstrate the ability to… assess various regions of the world in terms of their environment, culture, people, politics, economics, development, and diversity in order to determine what gives regions their uniqueness and commonality with other regions. analyze geographic patterns and distributions of various cultural features across the earth (e.g. political divisions, religion, economics, industry, religion, language, agriculture, urbanization, population demographic, and natural resources). analyze the spatial distribution, patterns, interrelationships, and conflicts with various regions of the world.	2 – Communicate Effectively

produce bodies of work demonstrating analytical skills in spatial thinking using geospatial technology as a way to analyze and assess the cultural environment.	
3. Students will demonstrate the ability to… assess the impact of limited resources and the potential conflicts at a local, regional, state, and international level. analyze the impacts of urban planning and development on the physical and social landscape at all levels of scale and scope (e.g. local, state, national, international levels). analyze land-cover change patterns using geospatial technology to assess the human footprint on the planet. demonstrate knowledge of the role human's play in impacting Earth's environment (e.g. environmental pollution, climate change, habitat loss, urban sprawl, deforestation and desertification, global population growth). analyze the local, state, national, and international laws, treaties, and declarations that have been put in place to protect the environment, property of the commons, human rights, and trade. produce bodies of work demonstrating analytical skills in spatial thinking using geospatial technology as a way to analyze and assess the human-environment connection.	3 – Develop Quantitative Literacy
4. Students will demonstrate the ability to… apply analytical thought processes using geographic inquiry and spatial thinking skills (e.g. patterns, distributions, interactions, movement, distance decay, and circulation). extract meaning from geographic phenomena, geographic information, and geographic tasks in relation to space and time. perform skills using geospatial technology (i.e. maps, aerial photography, satellite imagery, ArcGIS, Google Earth, ArcGIS Explorer, graphs, or spatial statistics) to compare the physical and cultural landscape. analyze the legal aspects of geospatial data and the potential misuse. determine the economic aspects of institutions investing in geospatial technology. express how geospatial technology is used in local, state, and national governmental agencies, social services, public safety, business, criminal justice economic and urban development, environmental management, and national defense. determine the legal and ethical dissemination and access of geospatial information. assess the ethical and moral choices and implications of decision making for individuals and organizations using geospatial information.	4 – Think Critically

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Analysis	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (31 CREDITS)

COURSE		CR	SEM	PREREQUISITE
GEOG 1000	Earth's Surface	3	A	
GEOG 1400	Human Geography	3	F, Sp	
GEOG 1300	Regional Geography	3	F, Sp	
GEOG 1800	Geospatial Tech	3	A	
GEOG 1820	Applied GIS I	3	F, Sp	GEOG 1800 or instructor approval
GEOG 1900	Special Studies	1-3	A	Instructor approval
GEOG 2100	Maps & Measure	3	F	
GEOG 2200	Urban/Envirn Issues	3	Sp	
GEO 1110	Physical Geology	3	F	Coreq: GEO 1115
GEO 1115	Physical Geo Lab	1	F	Coreq: GEO 1110
MET 1010	Intro to Meteorology	3	A	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
GEOG 1000	3	GEOG 1400	3
GEOG 1300	3	GEOG 2200	3
GEOG 1800	3	MET 1010	3
DISTRIBUTION	3	DISTRIBUTION	3
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
GEOG 1900	1-3	GEOG 1820	3
GEOG 2100	3	MATH 1030	3
GEO 1110/1115	4	STUDENT CHOICE	3
DISTRIBUTION (2)	6	AI	3
LW	2	DISTRIBUTION (2)	6
Total	**15-17**	**Total**	**18**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite courses. Those prerequisites must be satisfied before the designated course may be taken. Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the full program. The semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

DEPARTMENTAL OFFERNINGS

COURSE		CR	SEM	PREREQUISITE
GEOG 1000	Earth's Surface	3	A	
GEOG 1400	Human Geog	3	F, Sp	
GEOG 1300	Regional Geog	3	F, Sp	
GEOG 1700	Natural Disasters	3	A	
GEOG 1780	Remote Sensing of Earth	3	F, Sp	
GEOG 1800	Geospatial Technology	3	A	

GEOG 1820	Applied GIS I	3	F, Sp	GEOG 1800 or instructor approval
GEOG 1900	Special Studies	1-3	A	Instructor approval
GEOG 2000	CO-OP	2-4	A	Instructor approval
GEOG 2100	Maps & Measur	3	F	
GEOG 2200	Urban/Envirn Issues	3	Sp	
GEOG 2900	Independ Projects	1-3	A	Instructor approval
GEOG 2920	Applied GIS II	3	Sp	GEOG 1820 or instructor approval
GEO 1010	Intro to Geology	3	A	
GEO 1110	Physical Geol	3	F	Coreq: GEO 1115
GEO 1115	Physical Geo Lab	1	F	Coreq: GEO 1110
GEO 1060	Env Geology	3	Sp	Coreq: GEO 1065
GEO 1065	Env Geology Lb	1	Sp	Coreq: GEO 1060
GEO 1220	Historical Geol	3	Sp	GEO 1110. Coreq: GEO 1225
GEO 1225	Histor Geol Lab	1	Sp	Coreq: GEO 1220
GEO 2350	Field Studies	3	Su	Instructor approval

GEOGRAPHIC INFORMATION SCIENCE TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE^{CTE} (AAS) 65 credits minimum

Division of Natural Science
Taylorsville Redwood Campus, SI 345
General Information, (801) 957-4073
Program Information, (801) 957-4150
www.slcc.edu/gis
Academic Advisor, SI 209, (801) 957-4858

Program Faculty:
Instructors – Robert Dastrup, Lauren Parker

Program Description: The Geographic Information Science Technology program provides students with skills in Geographic Information Science Technology, using ESRI software. GIS related employment is one of the fastest growing areas in today's work place. A Geographic Information System (GIS) is a powerful tool designed to work with data referenced by spatial or geographic coordinates. This system captures, stores, checks, integrates, manipulates, analyzes and displays data. The data is spatially referenced to the earth. Geographic Information Sciences use GIS tools along with remote sensing, aerial photography, photogrammetry, and others to capture, store, retrieve, analyze, model and display data.

The unique application of GIS appeals to students' interest in numerous academic/economic sections including but not limited to the following, Marketing, Urban Planning, Public Safety, Criminal Justice, Law Enforcement, Medicine, Forestry, Bureau of Land Management, Transportation, Environmental Studies, Emergency Preparedness, Archeology, and Public Utilities. These entities are only a small sample of the ubiquitous nature of GIS.

Career Opportunities: Students completing the GIS Certificate will be highly qualified for most entry-level geospatial technology positions, specifically in Geographic Information Systems (GIS). Entry-level positions could include: local, state, and federal governmental agencies, nonprofit organizations, transportation, public utilities, private sector positions, and military.

The strength of the GIS Certificate is its broad interdisciplinary applications. Students seeking an Associate of Science (AS) or Associate of Applied Science (AAS) degree will find greater marketability when combined with the GIS Certificate. Students combining degrees with the GIS Certificate can find potential jobs in: geography, environmental geology, surveying, wildlife/ecology, sustainability, energy management, business and marketing, criminal justice, computer science, transportation, urban planning, computer information systems, education, social sciences, communication, government, homeland security, disaster response, non-profit organizations, the private sector, and more.

Estimated Cost for Students: Tuition & Books each semester

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy 8 – Develop the attitudes and skills for lifelong wellness
1.S Students will demonstrate an ability to apply analytical methods using geospatial technology. Extracting meaning from basic geometric operations of existing data sets or to derive new for further analysis. Perform analytical operations using geospatial technology – specifically	1,3,4

GIS – to answer a broad range of spatial problems.	
2. Students will demonstrate basic knowledge in geographic phenomena, geographic information, and geographic tasks in relation to space, time, properties, and human concepts.	1,3,4,5
3. Students will demonstrate cartographic and visualization skills using geospatial technology. Compile and manage geospatial data for cartography and visualization. Symbolization and labeling requirements will shape the way data used in the displays are selected, generalized, classified, projected, and manipulated. Apply basic principles of map design, visualization, and cartographic design to display geographic data.	1,2,4
4. Students will demonstrate an understanding of geospatial database designs based on established methods and principles of database modeling used in computer science.	1,3,4
5. Students will apply data modeling methods using geospatial technology. Analyze the mechanics built into data structures to facilitate search and retrieval of geospatial data. Demonstrate knowledge in using database management systems (DBMS) in geographic contexts to better handle geographic data. Apply Tessellation partitions of continuous surface data. Analyze vector data models to represent discrete entities using points, lines, boundaries, and nodes as sets of coordinate values with associated attributes.	1,3,4
6. Students will demonstrate an ability to apply geo-computation techniques using geospatial technology in terms of spatial uncertainty in relation to input data and the nature of the estimation technique for model output.	1,3,4
7. Students will demonstrate an ability to apply geospatial data analysis. Apply various models to measure the shape of Earth's surface and how that impacts accuracy and measurement. Apply various ways of geospatially referencing the earth in relation to spheres and ellipsoids. Assess the geometric relationship between datums and coordinate systems of Earth's surface. Transform geographic coordinate systems into plane projections and explain the various distortions that can occur. Demonstrate knowledge of the importance of geospatial data quality in terms of uncertainty within the data, primary versus secondary sources, and appropriate fitness of use of data for a particular project. Demonstrate basic understanding of how geospatial data conforms to legal accuracy standards for land surveying and global positioning systems (GPS). Demonstrate an understanding of geospatial data standards of metadata for maximize efficiency, accuracy, and investment, and to reduce errors, uncertainty, and redundancy.	1,3,4
8. Students will demonstrate an ability to determine the role geospatial technology plays in society. Demonstrate a basic knowledge of the legal aspects of geospatial data and the potential misuse. Demonstrate a basic knowledge of the economic aspects of institutions investing in geospatial technology. Demonstrate an understanding of how geospatial technology is used in local, state, and national governmental agencies, social services, public safety, economic and urban development, environmental management, and national defense. Demonstrate a basic knowledge of how organizations assert proprietary interests in relation to geospatial information and how it varies between	1,2,4,5

public and private sectors and between nations. Demonstrate a basic knowledge of the legal and ethical dissemination and access of geospatial information. Demonstrate knowledge of the ethical and moral choices and implications of decision making for individuals and organizations using geospatial information.	
9. Students will use demonstrate basic knowledge of the organizational and institutional aspects of geospatial technology. Demonstrate a basic knowledge of the institutional and inter-institutional aspects of geospatial technology. Demonstrate an understanding of local, state, national, and international organizations that exist to coordinate, inform, and support geospatial activities.	1,4,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0900; Within the past year, MATH 1010 w/C grade or better, or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Eff Comm	3	A	
OR				
COMM 1020	Prin Public Speaking	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relation	3	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose one course (three credits) from two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: CHEM 1010 and/or PHYS 1010 are recommended as Physical Science (PS) Distribution courses.

REQUIRED COURSES: (37 CREDITS)

COURSE		CR	SEM	PREREQUISITE
GEOG 1000	Earth's Surface Env	3	A	
GEO 1060	Envr Geology	3	Sp	Coreq: GEO 1065
GEO 1065	Envr Geology Lab	1	Sp	Coreq: GEO 1060
GEOG 1300	Regional Geography	3	F, Sp	
GEOG 1400	Human Geography	3	F, Sp	
GEOG 1700	Natural Disasters	3	F	
GEOG 1800	Geospatial Tech	3	A	
GEOG 1820	Applied GIS	3	A	GEOG 1800 or instructor approval
GEOG 2100	Maps/Measurement	3	F	
GEOG 2200	Urban/Envr Issues	3	Sp	

GEOG 2920	Applied GIS II	3	Sp	GEOG 1820 or instructor approval
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MET 1010	Intro Meteorology	3	A	

ELECTIVE COURSES: (SELECT 10 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
*CHEM 1010	Intro to Chem	3	A	**
*GEO 2350	Fld Studies Geol	3	Su	Instructor approval
GEO 1220	Historical Geol	3	Sp	GEO 1110. Coreq: GEO 1225
GEO 1225	Histl Geol Lab	1	Sp	Coreq: GEO 1220
GEOG 2000	Geography Co-op	2-4	A	Instructor approval
*GEOG 2900	Indep Projects	1-3	A	Instructor approval
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or approporiate Accuplacer score
*MATH 1060	Trigonometry	3	A	RDG 0990; within last year Math 1050 w/ C grade or better
PHYS 1010	Elem Physics	3	A	**
SVT 1110	Surveying Math	4	F	Math 1010 or CPT
SVT 1030	Surveying	3	Sp	SVT 1110 or Math 1060

*Recommended

**Students who choose to fulfill the Physical Science (PS) distribution area with courses other than these should still consider these courses as highly recommended for elective credit

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	CM	3
MATH 1030	3	GEOG 1820	3
GEOG 1000	3	GEOG 1300	3
GEOG 1400	3	GEO 1060/1065	4
GEOG 1800	3	GIS ELEC	4
Total	**15**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
DISTRIBUTION	3	GEOG 2200	3
GEOG 2100	3	GEOG 2920	3
MET 1010	3	GIS ELEC	3
GIS ELEC	3	LE 1220	3
GEOG 1700	3	DISTRIBUTION	3
		MATH 1040	3
Total	**15**	**Total**	**18**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete a degree. ACT or CPT placement exams are designed to assist in determining which preparatory classes may be appropriate for each student.

The semester in which courses are taught are listed above. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment. It is the student's responsibility to examine each course description for details of prerequisite classes.

SURVEYING & GEOMATICS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 69 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 241
General Information, (801) 957-4073
Program Information, (801) 957-4176
www.slcc.edu/geomatics
Academic Advisor: Devan Church, SI 209, (801) 957-4858

Program Faculty:
Associate Professor - Walter M. Cunningham, PLS, Program Coordinator
Associate Professor - R. Adam Dastrup, Geosciences Coordinator

All Surveying & Geomatics faculty are experienced, degreed, and state-licensed Professional Land Surveyors (PLS).

Program Description: The surveying and geomatics program serves three distinct purposes:

1. Provides students who have little or no experience in the field the skills needed for employment as a surveyor;
2. Gives those already working in the profession additional knowledge needed to prepare for their professional licensing examinations;
3. Gives licensed professionals opportunities for upgrade training on new issues and equipment in surveying.

A "C" grade or better is required in all Surveying & Geomatics program courses.

Career Technician Certification: SLCC is an approved National Society of Professional Surveyors (NSPS) Certified Surveying Technician (CST) Proctor Site.

Transfer/Articulation Information: Students have the option to continue at Utah Valley University in the Geomatics bachelor degree program.

Estimated Time to Completion: If a student follows the proposed sample schedule outline, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy 8 – Develop the attitudes and skills for lifelong wellness
Core Knowledge in Surveying 1. Successful students will demonstrate the ability to… — demonstrate knowledge of surveying history. — analyze how to apply units of measurement. — determine the role of the surveyor. — determine the fundamentals of surveying. 2. Successful students will demonstrate the ability to… — utilize the specialized formulas and mathematical functions. — apply trigonometry and algebra. — apply mathematical and analytical skills relating to an entry-level surveyor could be expected to perform. 3. Successful students will demonstrate the ability to perform these	1,2,3,4,5

various types of professional surveys and applications: — Control — GPS, GIS, and Land Planning — Public lands — Construction and staking — Boundary	
Field Experience in Surveying 1. Successful students will demonstrate the ability to… — Observe and apply safety precautions. — Analyze environmental concerns. 2. Successful students will demonstrate entry-level and hands-on applications and concepts, including: — the roles of surveying party members, including party Chief, Instrument Person, Rod-person, Note-keeper/sketcher, tape-person/safety spotter. — the ability to perform and check mathematical calculations and operations. — the ability to operate surveying equipment and instruments, including automatic Total Stations, rods, auto-levels, plumb-bobs, high-accuracy RTK GPS, automatic data collectors, etc. — the ability to perform accurate field-note taking and records. — the ability to work in teams and collaboration.	1,2,5
Office Skills in Surveying 1. Successful students will demonstrate the ability to… — use CAD and GIS as source data. — apply correct use of analytical and calculation tools. — demonstrate knowledge of the various interdisciplinary surveying applications of CAD and GIS in land development, drafting, and mapping. 2. Successful students will demonstrate and exhibit proficiency in… — Public record research. — Writing legal descriptions of land parcels. 3. Successful students will demonstrate a sound knowledge and analysis using Photogrammetry, including… — equipment — aerial geometry — stereoscopic viewing — map development	1,2,3,4
Legal Knowledge and Skills in Surveying 1. Successful students will demonstrate understanding of the laws and standards regarding… — surveying ethics. — surveying liability. 2. Successful students will demonstrate knowledge of... — the history of U.S. boundary law. — applications of boundary law. — ownership and transfer of real property. — title rights and interests in land. — current statutory and case laws. — the surveyor's role in unwritten boundary lines. — the surveyor's role in legal proceedings.	1,4,5
Specialized Depth Electives in Surveying 1. Successful students will exhibit an acceptable knowledge of… — applied GIS and software. — land development and planning	1

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
SVT 1110	Surveying Math I	4	A	MATH 1060 or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	
OR				
COMM 1020	Prin Public Speaking	3	A	

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations	3	A	

DISTRIBUTION AREAS: 3 CREDITS

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (47 CREDITS)

COURSE		CR	SEM	PREREQUISITE
EDDT 1040	Intro to AutoCAD	3	A	
EDDT 1420	Basic Microstation	2	A	
EDDT 2190	Civil Drafting	2	F, Sp	EDDT 1040, EDDT 1420
ENGL 2100	Technical Writing	3	A	ENGL 1010
GEOG 1800	Mapping Our World	3	A	None
SVT 1010	Intro to Surveying	1	A	None
SVT 1030	Survey Field Tech I	3	F, Sp	Recommended: SVT 1110 or MATH 1060
SVT 1120	Surveying Math II	4	Sp	SVT 1110
SVT 2020	Public Land Survey	3	Sp	SVT 1030, SVT 1120
SVT 2030	Survey Field Tech II	3	F, Sp	Recommended: SVT 1030
SVT 2040	Control Surveys	3	F	SVT 1120
SVT 2050	Legal Descriptions	3	F,SP	Recommended: SVT 2020
SVT 2060	Ethics & Liability	2	F,SP	None
SVT 2110	Photogrammetry	3	Sp	SVT 1110
SVT 2160	Land Boundary Law I	2	F	None
SVT 2170	Land Boundary Law II	2	Sp	Recommended: SVT 2160
SVT 2200	Public Records	2	Sp	SVT 2050, 2160, 2170 or all concurrently
SVT 2290	App Survey Drafting	3	F	EDDT 2190, SVT 1030

PROGRAM ELECTIVES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
GEOG 1820	Applied GIS I	3	A	GEOG 1800 or instructor approval
GEOG 1780	Remote Sense Earth	3	F, Sp	Instructor Approval
SVT 2990	Special Topics	1,3	F,SP	Instructor Approval
SVT 2100	Land Development	3	F	SVT 1110

SAMPLE SCHEDULE			
Students should complete the following courses to begin in the Fall:			
EDDT 1040	3		
GEOG 1800	3		
MATH 1060	3		
Total	**9**		
FALL SEMESTER		**SPRING SEMESTER**	
EDDT 1420	2	ENGL 2100	3
EDDT 2190	2	LE 1220	3
ENGL 1010	3	SVT 1030	3
SVT 1010	1	SVT 1120	4
SVT 1110	4	SVT 2060	2
DISTRIBUTION	3	SVT 2110	3
Total	**15**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
COMM 1010/1020	3	SVT 2020	3
SVT 2040	3	SVT 2030	3
SVT 2160	2	SVT 2050	3
SVT 2290	3	SVT 2170	2
ELEC	3	SVT 2200	2
		ELEC	3
Total	**14**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses (see summer term in sample schedule) should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken and may require extra time to complete the program.

Onsite and hybrid SVT courses are taught in the evening and on Friday and Saturday to accommodate students already working in the profession. Courses available in a totally online format are: SVT 1010, SVT 1110, SVT 2050, and SVT 2060. SVT 2160 & SVT 2170 are hybrid courses with special hours during Fall and Spring semesters, contact Program Coordinator at (801) 957-4176 for detailed information.

Credit may be granted for equivalent experience or courses; challenge tests available up to 16 credit hours.

GEOGRAPHIC INFORMATION SYSTEMS – CERTIFICATE OF COMPLETION[CTE] 39 credits minimum

Program Division: Division of Natural Sciences
Program Location: Taylorsville Redwood Campus, SI 345
General Information: (801) 957-4944
Program Information: (801) 957-4880 or (801) 957-4852
Program Website: www.slcc.edu/gis
Academic Advisor: Devan Church, SI 209, (801) 957-4858

Program Faculty:
Associate Professors – R. Adam Dastrup, Walt Cunningham

Program Description: The Geographic Information Systems (GIS) Certificate of Completion provides students with knowledge and technological skills as outlined by the Department of Labor's Geospatial Technology Competency Model (GTCM). A GIS is a powerful tool designed to work with data referenced by spatial or geographic coordinates. The system captures and integrates spatial and non-spatial data for analyzes, spatial modeling, and visualization. The GIS Certificate of Completion goes beyond the college's Geospatial Technology Certificate of Proficiency by providing students the opportunity to expand beyond basic GIS skill sets into Python programming, geospatial statistics, open source GIS, web-based GIS, and geospatial mobile app development. This certificate is meant to be a stackable credential, meaning students can use the spatial knowledge and technicals skills acquired to enhance their chosen field of study or employment.

Career Opportunities: Students completing the GIS Certificate of Completion will be highly qualified for most entry-level and even intermediate geospatial technology positions, specifically in Geographic Information Systems. Positions could include: local, state, and federal governmental agencies, nonprofit organizations, transportation, public utilities, private sector positions, and military.

The GIS Certificate of Completion gives students a competitive edge because students have the opportunity to focus on advanced GIS technological skill sets including Python programming, geospatial statistics, open source GIS, web-based GIS, and geospatial mobile app development.

The geospatial technology industry is extremely diverse and interdisciplinary, applicable and highly needed in the following industries: business and marketing, geography, urban planning and transportation, architecture, public safety, homeland security, criminal justice and law enforcement, public health, forestry and agriculture, environmental science and wildlife conservation, energy mangagement, natural resource management, history and archeology, sociology, the military, disaster response and mitigation, surveying, computer science, and more.

Transfer/Articulation Information:
None

Program Entry Requirements:
None

Total Program/Course Fees:
Total of $150 in course fees that provides each student to receive an educational license of the latest version of ArcGIS along with Esri Virtual Courses throughout the entire program.

Estimated Cost for Students:
Full-time: $3,342 total tuition; $150 course lab fees, $600 textbooks
Part-time: $4,355 total tuition; $150 course lab fees, $600 textbooks

Estimated Time to Completion:
Full-time: 2-3 semesters (12-16 credit hours per semester)
Part-time: 4-5 semesters (6 credit hours per semester)

Specialized Accreditation:

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Students will apply spatial science techniques to analyze physical and human patterns spatially and over time 2. Students will apply Earth geometry and geodesy techniques to geospatial applications - Geoids, ellipsoids, and spheres - World and local datums, geographic and projected coordinate systems, and projections 3. Students understand basic measurement systems of satellite positioning to determine location - Global Navigation Satellite Systems (GNSS) and Global Positioning Systems (GPS) - Collect and integrate GNSS/GPS positions 4. Students will apply the science of remote sensing and photogrammetry techniques and analysis - Electromagnetic spectrum, optical sensors, microwave sensors, multispectral and hyperspectral sensors - Differentiate spatial, spectral, radiometric, and temporal resolutions - Active and passive remote sensing - Ground-truthing and quality assurance - Orthoimagery, terrain correction, and georeferencing 5. Students will demonstrate skill sets in Geographic Information System analysis and modeling - Representing spatial change over time - Acquire and integrate field data, image data, vector and raster data, attribute data, and maintaining a geodatabase - Using non-spatial data models in a GIS - Apply geospatial software to perform GIS analysis, spatial measurements, distance, data queries and retrieval, vector overlays, and topological relationships	1 – Acquire Substantive Knowledge
6. Students will apply cartographic and visualization techniques to communicate spatial and non-spatial data. - Apply cartographic principles to create and edit visual representations of spatial and non-spatial data including maps, graphs, and diagrams - Demonstrate appropriate data selection, classification, and symbolization - Critique the design of a map based on the intended audience	2 – Communicate Effectively
2 Students will apply and analyze spatial and non-spatial data sets - Demonstrate an ability to apply various geospatial referencing techniques in relation to earth - Apply various data models to measure the shape of Earth's surface and how that impacts accuracy and measurement	3 – Develop Quantitative Literacy
3 Demonstrate an ability to apply critical thinking in geospatial environments - Apply various geospatial referencing techniques in relation to spheres, datums, coordinate systems, and projections - Assess the geometric relationship between datums and coordinate systems - Demonstrate an ability to transform geographic coordinate systems into plane projections and explain the various distortions that can occur - Demonstrate knowledge of the importance of geospatial data quality in terms of uncertainty within the data, primary versus secondary sources, and appropriate use of data for a particular project	4 – Think Critically and Creatively

	- Demonstrate an understanding of geospatial data standards of metadata for maximum efficiency, accuracy, and investment, and to reduce errors, uncertainty, and redundancy - Apply primary and secondary data sources within a geospatial system	
4	Students will analyze legal and ethical issues related to geospatial data - Identify legal, ethical, and business considerations that affect an organization's decision to share geospatial data - Demonstrate knowledge of the ethical and moral choices and implications of decision making for individuals and organizations using geospatial information - Demonstrate knowledge in the relationship between web-based mapping programs and social media - Demonstrate an understanding of how geospatial technology is used in government, military and homeland security, humanitarian work, environmental science and conservation, private sectors, non-profit organizations, and society at large	5 – Civic Engagement
5	Students will develop professional skills related to the discipline of geospatial technology - Identify allied fields that rely on geospatial technology and that employ geospatial professionals - Participate in scientific and professional organizations - Demonstrate familiarity with codes of professional ethics and rules of conduct for geospatial professionals - Identify legal, ethical, and business considerations that impact an organization's decision to share geospatial data - Demonstrate the ability to work on large projects and within teams	6 – Work Professionally and Constructively
6	Students will conceptually understand, apply, and analyze geospatial technology - Demonstrate application in ArcGIS, Multispec, and Garmin GPS technology - Demonstrate use of word processing, presentation, and statistical software - Develop a professional ePortfolio to showcase projects	7 – Develop Computer and Information Literacy

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	MATH 0990 w/C grade or better, or appropriate Accuplacer score.

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
	Any approved (CM) course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
	Any approved (HR) course			

REQUIRED COURSES: (27 CREDITS)

COURSE		CR	SEM	PREREQUISITE
GEOG 1600	Intro to Geographic Science	3	A	None
GEOG 1780	Remote Sensing of Earth (PS)	3	A	None
GEOG 1800	Mapping Our World (ID)	3	A	None

GEOG 1820	Intermediate GIS	4	A	None
GEOG 2100	Cartographic Principles	4	Su, F	GEOG 1800 may be taken concurrently or instructor approval
GEOG 2300	Statistics for GIS	3	Sp	MATH 1010, GEOG 1820 or instructor approval
GEOG 2400	Data Acquisition & Management	3	Su, F	GEOG 1820 or instructor approval
GEOG 2920	Spatial Analysis	4	Sp, Su	GEOG 1820 may be taken concurrently or instructor approval

ELECTIVE COURSES: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
GEOG 2600	Python for GIS	4	Sp	GEOG 1820 or instructor approval
GEOG 2700	Open Source GIS	3	Su	
GEOG 2800	Web GIS	4	F	GEOG 1820 or instructor approval
GEOG 2900	Independent Projects	3	A	GEOG 1820 or instructor approval
SVT 1010	Intro to Surveying	1	A	None
SVT 1110	Survey Math I (QS)	4	F	MATH 1060 (QL)
SVT 2100	Photogrammetry	3	Sp	SVT 1110 or instructor approval
ENGL 2100	Technical Writing	3	A	ENGL 1010
EDDT 1040	Introduction to CAD	3	A	None
ARCH 1310	Intro to AutoCAD	3	F	None

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
GEOG 1600	3	GEOG 1780	3
GEOG 1800	3	GEOG 1820	4
GEOG 2100	4	GEOG 2300	3
MATH 1010	4	GEOG 2920	4
Total	**14**	**Total**	**14**
SUMMER SEMESTER		**FALL SEMESTER**	
GEOG 2400	3		
COMM Elective	3		
HR Elective	3		
Program Elective	3		
Total	**12**	**Total**	

Advising Notes:

Additional Program Notes:

CERTIFIED NURSING ASSISTANT
– CERTIFICATE OF PROFICIENCY[CTE] 122 Clock Hours

Program Division: Division of Applied Technology
Program Location: Meadowbrook, A-102
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/healthcare/CNA.aspx
Academic Advisor: Butch Steffen, 801-957-3317

Program Faculty:
Professors – Marilyn Little, APRN
Instructors – Diane Hall RN, Debi Johnson RN, Ben Becker RN, Candice Williams RN, Charan Kilbourn RN

Program Description:
This program is designed to provide students with the skills necessary to meet the State of Utah nursing assistant certification requirements. Students completing the program will learn the responsibilities of a certified nursing assistant to provide for the physical, physiological, and psychological needs of the patient within a hospital or long term facility. The curriculum includes an overall introduction to human relations, anatomy, physiology, and bacteriology, as well as consideration of body mechanics, disease processes, and therapeutic approaches used to arrest or contain them. Universal precautions are taught throughout the program, and emphasis is placed on the need to protect the patient, as well as the nursing assistant.

Career Opportunities:
Upon program completion, the student will become certified and licensed as a CNA and will be able to obtain employment in the health care field as a CNA. The student will also satisfy the pre-requisite of completing a CNA program prior to applying for a nursing degree.

For state and national occupation information, visit http://onlinelonetcenter.org/find and enter the following O*Net codes:

- 31-1011.00 Home Health Aids
- 31-1012.00 Nursing Aids, Orderlies, and Attendants
- 31-1013.00 Psychiatric Aid
- 31-2022.00 Physical Therapist Aid
- 39-9021.00 Personal and Home Care Aids

Transfer/Articulation Information:
The CNA program articulates with the requirements of Salt Lake Community College, the University of Utah, Weber State University, BYU, Westminster and Davis Applied Technology Center pre-requisites for enrollment in their nursing degree programs.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
- Reading 7.0
- Math 6.0

Student must have a current CPR card (or take KCNA 0010 CPR for Health Care Professionals a 4 hour course costing an estimated $29.00 while in the program).

Immunizations:
- Hepatitis B Series (1st shot required)
- MMR or Titer
- PPD – Tuberculosis (TB) Manitou Test or X-Ray – within One Year
- Varicella (Chickenpox), or verification of disease
- TDaP (Tetanus, Diphtheria, Pertussis) - within past 10 years

Other Entry Requirements:

- 17 years old at enrollment, students should be 18 years old upon completion; the majority of health care facilities hiring CNAs require their employees to be 18 upon hire
- Utah Bureau of Criminal Investigations personal criminal background check (BCI) within past 6 months
- Drug Screen (SAM-5) prior to enrollment
- Ability to help lift and/or move patients
- Not listed on the sex offender web site

Estimated Cost for Students:
Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/healthcare/CNA.aspx

Estimated Time to Completion:
122 Clock hours. Day class 2-4 weeks. Evening class 4-6 weeks.

Specialized Accreditation: UNAR

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
1. Student will complete both theory and clinical requirements for the CNA program.	1,2,3,4,5,6,7
2. Student will take a state-mandated written/computer exam to become certified/licensed.	1,3,4,7
3. Student will take a state-mandated skills exam to become certified/licensed.	1,2,3,4,6
4. Student will obtain employment as a CNA or will continue on with their education.	1,2,4,5,6,7

REQUIRED COURSES: (122 CLOCK HOURS)

COURSE		Clock Hours	SEM	PREREQUISITE
KCNA 0100	Patient Care Theory	74	A	
KCNA 0110	Skills Lab	20	A	
KCNA 0120	Patient Care, Long-Term Clinical	16	A	Skills Lab, CPR
KCNA 01400	Patient Care, Acute care Clinical	12	A	Skills Lab, CPR
STANDALONE COURSE OFFERINGS				
KCNA 0010	CPR	4	A	
KNNA 0100*	Nutrition Assistant	20	A	

*KNNA 0100 will no longer be offered after June 30, 2014.

Advising Notes: All enrollment procedures are handled at South City Campus. Please contact advisor with questions. 801-957-3317.

Additional Program Notes: Classes start every week on Mondays. Day class: 7:00 AM-1:00 PM, Mon-Thurs. Evening class: 5:00 PM-9:00 PM, Mon-Thurs. Clinicals are Fri and/or Sat.

CLINICAL LAB ASSISTANT
– CERTIFICATE OF PROFICIENCY[CTE] 345 Clock Hours

Program Division: Division of Applied Technology
Program Location: Highland Center
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/healthcare/clinicallabassistant.aspx
Academic Advisor: Veronica Medina, Highland Center, 801-957-3199

Program Faculty:
Associate Professors – Celeste Skinner
Instructors – Julia Miller

Program Description:
The Clinical Lab Assistant Program, a non-credit training program, will provide students with the necessary knowledge and skills to competently perform the duties of a medical laboratory assistant. Clinical Lab Assistants are trained to work in doctors' offices, hospital laboratories and other outpatient labs as an integral member of the allied health care delivery team.

The curriculum will allow the students to gain competency in cognitive, psychomotor and affective competencies. The program will be offered in a flexible open entry / open exit format.

Instruction will be achieved with a combination of classroom, laboratory, and clinical activities

Upon successful completion of the coursework at a satisfactory rate of 80% or better and receipt of all necessary documentation the student will receive the Certificate of Proficiency.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 29-2012.00 Medical and Clinical Laboratory Technicians

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
Reading 10
Vocabulary 10
Math 8
Current Immunization Status for: Tdap, MMR, TB, Hep B, Varicella, Influenza
Background Check
Drug Screen

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/healthcare/clinicallabassistant.aspx

Estimated Time to Completion:
345 clock hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
1. Students learn cognitive, psychomotor and affective training in anatomy, physiology, and medical terminology.	1,2,4,5,6,7
2. Students learn cognitive, psychomotor and affective training in applied microbiology and infection control.	1,4,5,6
3. Students learn cognitive, psychomotor and affective training concepts of effective communication.	1,2,5,6,7
4. Students learn cognitive, psychomotor and affective training in front office administrative functions performed in an ambulatory healthcare setting.	1,2,5,6,7
5. Students learn cognitive, psychomotor and affective training legal and ethical areas of healthcare.	1,4,5,6
6. Students learn cognitive, psychomotor and affective training in phlebotomy and laboratory procedures performed in healthcare settings, including AHA Healthcare Provider CPR and First Aid.	1,3,4,5,6,7
7. Students prepare to pass industry certifications following program completion.	1,3,5,6,7
8. Students demonstrate mastery of job seeking skills	1,2,5,6,7

REQUIRED COURSES: (345 Clock Hours)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KAOS 0110	Beginning Keyboarding	20	A	
KAOS 0170	Computer Concepts	30	A	
KCMA 0105	Working in the Health Care Environment	70	A	KAOS 0110; KAOS 0170
KCMA 0065	Medical Office Communications and Records	55	A	KCMA 0105
KCMA 0115	Medical Assisting Procedures I	95	A	KCMA 0065
KCMA 0125	Medical Assisting Procedures II	60	A	KCMA 0115
KWRK 0515	Job Seeking Skills	15	A	

CERTIFICATES EARNED WITHIN THE PROGRAM

American Heart Association Healthcare Provider CPR
American Heart Association First Aid

CERTIFICATES FOR WHICH STUDENTS MAY PREPARE FOR UPON PROGRAM COMPLETION (Additional fees and experience may apply)

American Medical Technologists: Registered Phlebotomy Technician (RPT)
National Center for Competency Testing: National Certified Phlebotomy Technician (NCPT)
American Medical Technologists: Certified Medical Laboratory Assistant (CMLA)

CLINICAL MEDICAL ASSISTING – CERTIFICATE OF COMPLETION[CTE] 950 Clock Hours

Program Division: Division of Applied Technology
Program Location: Highland Center
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/healthcare/clinicalmedicalassisting.aspx
Academic Advisor: Veronica Medina, Highland Center, 801-957-3199

Program Faculty:
Associate Professors – Celeste Skinner
Instructors – Julia Miller

Program Description:
The Clinical Medical Assisting Program, a non-credit training program, will provide students with the necessary knowledge and skills to competently perform the duties of a medical assistant as defined by local and national standards. Medical assistants are trained primarily to work in doctors' offices and other ambulatory care clinics as an integral member of the allied health care delivery team.

Students will be trained in both the administrative and clinical areas of medical assisting so that they may work to keep the offices and clinics of numerous health professionals running smoothly. The curriculum will allow the students to gain competency in cognitive, psychomotor and affective competencies. The program will be offered in a flexible open entry / open exit format.

Instruction will be achieved with a combination of classroom, laboratory, and clinical activities that will include experience in an ambulatory healthcare facility. Students must demonstrate proficiency by passing all courses and competencies required in the program before being placed in a clinical site for the externship. Students complete a 165 hour unpaid clinical externship at a health care facility contracted with the college. Students are required to provide the externship coordinator of the Applied Technology division of the School of Applied Technology and Professional Development, evidence of completion of these hours and satisfactory performance signed by the clinical supervisor.

Upon successful completion of the coursework and externship at a satisfactory rate of 80% or better and receipt of all necessary documentation the student will receive the Certificate of Completion.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 31-9092.00 Medical Assistants

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading 10
- Vocabulary 10
- Math 8

Prior to Enrolling:

- Current Immunization Status for: Tdap, MMR, TB, Hep B, Varicella, Influenza
- Background Check
- Drug Screen
- Minimum age 16 years (must be 18 for externship)

Estimated Cost For Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/healthcare/clinicalmedicalassisting.aspx

Estimated Time to Completion:
950 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
1. Students learn cognitive, psychomotor and affective training in anatomy, physiology, and medical terminology.	1,2,4,5,6,7
2. Students learn cognitive, psychomotor and affective training using applied mathematics and finance practices.	1,3,4,5,6
3. Students learn cognitive, psychomotor and affective training in applied microbiology and infection control.	1,4,5,6
4. Students learn cognitive, psychomotor and affective training concepts of effective communication.	1,2,5,6,7
5. Students learn cognitive, psychomotor and affective training in administrative functions performed in an ambulatory healthcare setting.	1,2,5,6,7
6. Students learn cognitive, psychomotor and affective training in insurance and managed care, including procedural and diagnostic coding.	1,3,4,5,6
7. Students learn cognitive, psychomotor and affective training legal and ethical areas of healthcare.	1,4,5,6
8. Students learn cognitive, psychomotor and affective training in clinical procedures performed by medical assistants in an ambulatory healthcare setting, including AHA Healthcare Provider CPR and First Aid.	1,3,4,5,6,7
9. Students prepare to pass industry certifications following program completion.	1,3,5,6,7
10. Students demonstrate mastery of job seeking skills and customer service skills	1,2,5,6,7

REQUIRED COURSES: (950 Clock Hours)

COURSE		Hour	SEM	PREREQUISITE
KAOS 0110	Beginning Keyboarding	20	A	
KAOS 0170	Computer Concepts	30	A	
KAOS 0250	Customer Service Life Skills	60	A	
KCMA 0105	Working in the Health Care Environment	70	A	KAOS 0110; KAOS 0170
KCMA 0065	Medical Office Communications and Records	55	A	KCMA 0105
KCMA 0115	Medical Assisting Procedures I	95	A	KCMA 0065
KCMA 0125	Medical Assisting Procedures II	60	A	KCMA 0115
KCMA 0135	Medical Assisting Procedures III	110	A	KCMA 0125
KCMA 0165	Introduction to Insurance and Billing Procedures	40	A	KCMA 0065
KCMA 0200	Assist with Office Procedures	220	A	KCMA 0135
KCMA 0420	Final Review & Cert Prep	10	A	KCMA 0200
KWRK 0515	Job Seeking Skills	15	A	
KCMA 0431	Medical Assisting Externship	165	A	KCMA 0200; KWRK 0515

CERTIFICATES EARNED WITHIN THE PROGRAM

American Heart Association Healthcare Provider CPR
American Heart Association First Aid

CERTIFICATES FOR WHICH STUDENTS MAY PREPARE FOR UPON PROGRAM COMPLETION
(Additional fees and experience may apply)

American Medical Technologists: Registered Phlebotomy Technician (RPT)
National Center for Competency Testing: National Certified Phlebotomy Technician (NCPT)
American Medical Technologists: Certified Medical Laboratory Assistant (CMLA)

CERTIFICATES WHICH STUDENTS ARE PREPARED FOR UPON PROGRAM COMPLETION (Additional fees apply)

American Medical Technologists: Registered Medical Assistant (RMA)
National Center for Competency Testing: National Certified Medical Assistant (NCMA)

HEALTH INFORMATION SPECIALIST – CERTIFICATE OF PROFICIENCY[CTE] 678 CLOCK HOURS

Program Division: Division of Applied Technology
Program Location: South City Campus
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/healthcare/healthinfospecialist.aspx
Academic Advisor: Liliana Rodriguez 801-957-3469

Program Faculty:
Professors – Jeanne Noble, Dee Ann Jensen
Associate Professors – Sally Williams, Vonadean McFarland, Karl Jorgensen
Assistant Professors – Diego Pardo

Program Description:
This non-credit training program prepares students to work in the medical records offices of hospitals, larger medical clinics, doctors' offices, and insurance companies. It provides basic clerical training in computer concepts, Windows, Internet, e-mail, medical filing, keyboarding, word processing, basic spreadsheets, ten-key, medical terminology, medical accounting/patient scheduling, electronic health records, anatomy, ICD-10 Coding and HIPPA Certification. Special emphasis is placed on customer service and life skills training. This curriculum includes an 80-hour cooperative externship at a medical facility in the medical records department.

Career Opportunities:
For state and national occupation information, visit http://online.onecenter.org/fin/ and enter the following O*Net codes(s):

- 9-2071.00 Medical Records and Health Information Technicians
- 43-6013.00 Medical Secretary

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 6.5
- Total Language: 8.0

Total Program/Course Fees:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/healthcare/healthinfospecialist.aspx

Estimated Time to Completion:
678 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Entry level customer service and life skills	1, 6
Entry level work experience	1
Entry level medical terminology	1
Entry level skills in basic office equipment and software	1,7
Entry level electronic health records	1
Entry level skills in office etiquette and professionalism	1,2, 6

REQUIRED COURSES: (678 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KAOS 0115	Keyboarding/Skillbuilding	80	A	
KAOS 0145	Basic Ten-Key	25	A	
KAOS 0170	Computer Concepts	30	A	
KAOS 0185	Basic Word Processing	40	A	
KACT 0115	Basic Spreadsheets	40	A	
KAOS 0225	Intermediate Business Communications	58	A	
KAOS 0250	Customer Service Life Skills	60	A	
KWRK 0515	Job-Seeking Skills	15	A	
KMCB 0110	Medical Filing	15	A	
KMCB 0120	Medical Terminology	30	A	
KMCB 0130	Anatomy	40	A	KMCB 0120 Medical Terminology
KMCB 0170	ICD-10 Coding	45	A	KMCB 0130 Anatomy
KMCB 0140	Medical Office Software	70	A	
KMCB 0165	Intro to Electronic Health Records	50	A	
KMCB 0241	Cooperative Externship 2	80		

HEALTH UNIT CLERK/COORDINATOR – CERTIFICATE OF PROFICIENCY[CTE] 203 CLOCK HOURS

Program Division: Division of Applied Technology
Program Location: South City Campus, Highland Campus
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/healthcare/healthunitclerk.aspx
Academic Advisor: Liliana Rodriguez 801-957-3469

Program Faculty:
Professors – Jeanne Noble, Dee Ann Jensen
Associate Professors – Sally Williams, Vonadean McFarland, Karl Jorgensen
Assistant Professors – Diego Pardo
Instructors – Juliann Olsen

Program Description:
This program prepares students to work at nursing stations in a hospital or in other medical office situations which deal with patient care records. Students learn to transcribe doctors' orders using basic knowledge of anatomy, physiology, medical terminology and abbreviations. Keyboarding skills, use of the computer skills are included in the program. Students learn on a computer simulation program to order daily diets, laboratory tests and other diagnostic tests, order medication, maintain and organize patient charts, perform non-clinical tasks for patient admissions, transfer, discharge, as well as preoperative and postoperative procedures. Students learn how to maintain the nursing unit supplies; communicate effectively with patients, visitors and professional health care teams; and operate the nursing unit communications systems (i.e., computer terminal, telephone, intercom, pagers).

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 43-6013.00 Medical Secretary

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Vocabulary: 8.0
- Reading: 10.0
- Math: 6.

MUST obtain prior to enrolling:

- Utah Bureau of Criminal Investigations personal criminal background check (BCI)

Immunizations (Prior to enrolling):

- Hepatitis B Series -started
- MMR or Titer
- PPD – Tuberculosis (TB) Manitou Test or X-Ray
- Varicella (Chickenpox), or verification of disease
- TDaP (Tetanus, Diphtheria, Pertussis) - within past 10 years

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/healthcare/healthunitclerk.aspx

Estimated Time to Completion:
203 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy

	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students will demonstrate how to maintain nursing unit supplies and communicate effectively with patients, visitors and professional health care teams.	1,2, 6,
Students will demonstrate entry level skills in basic office equipment and software.	1, 7

REQUIRED COURSES: (203 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KAOS 0110	Beginning Keyboarding	20	A	
KAOS 0170	Computer Concepts	30	A	
KHUC 0190	Health Unit Coordinating	60	A	
KHUC 0210	Cooperative Externship	78	A	
KWRK 0515	Job-Seeking Skills	15	A	

Additional Program Notes:
Although not required for successful completion of the program, students will receive instruction that prepares them to take the National Association of Health Unit Clerk/Coordinators certification test.

MEDICAL CODING & BILLING
– CERTIFICATE OF PROFICIENCY[CTE] 803 CLOCK HOURS

Program Division: Division of Applied Technology
Program Location: South City Campus
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/healthcare/medicalcoding.aspx
Academic Advisor: Liliana Rodriguez 801-957-3469

Program Faculty:
Professors – Jeanne Noble, Dee Ann Jensen
Associate Professors – Sally Williams, Vonadean McFarland, Karl Jorgensen
Assistant Professors – Diego Pardo

Program Description:
This non-credit training program prepares students to pass the National Medical Coding Certification Exam (CPC-A) and work in outpatient medical coding areas of hospitals, larger medical clinics, medical supply companies and doctors' offices. It provides basic clerical training in computer concepts, Internet, e-mail, keyboarding/skill building, word processing, ten-key, medical filing, medical terminology, insurance billing, medical accounting/patient scheduling software, outpatient coding, (CPT, ICD-10, and HCPCS), HIPPA Certification and spreadsheets. Emphasis is placed on customer service and life skills. This curriculum includes an 80-hour cooperative externship at a medical facility billing and/or coding department.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 43-3021.00 Billing and Posting Clerk
- 43-3021.02 Billing Cost and Rate Clerk
- 43-3021.01 Statement Clerk

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 10.0
- Vocabulary: 10.0
- Math: 8.0
- Total Language: 10.0
- Good Dexterity

Total Program/Course Fees:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/healthcare/medicalcoding.aspx

Estimated Time to Completion:
803 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Entry level customer service and life skills	1
Entry level work experience	1
Entry level coding and medical terminology	1
Entry level skills in basic office equipment and software	1, 7
Entry level skills in office etiquette and professionalism	1, 6

REQUIRED COURSES: (803 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KAOS 0115	Keyboarding/Skillbuilding	80	A	
KAOS 0145	Basic Ten-Key	25	A	
KAOS 0170	Computer Concepts	30	A	
KAOS 0185	Basic Word Processing	40	A	
KAOS 0225	Intermediate Business Communication	58	A	
KACT 0125	Comprehensive Spreadsheets	80	A	
KAOS 0250	Customer Service Life Skills	60	A	
KWRK 0515	Job-seeking Skills	15	A	
KMCB 0110	Medical Filing	15	A	
KMCB 0120	Medical Terminology	30	A	
KMCB 0130	Anatomy	40	A	KMCB 0120 Medical Terminology
KMCB 0140	Medical Office Software	70	A	
KMCB 0200	Outpatient Medical Coding	150	A	KMCB 0120 Medical Terminology and KMCB 0130 Anatomy
KMCB 0221	Medical Insurance/Pharmacology	30	A	
KMCB 0210	Cooperative Externship 1	80		

MEDICAL OFFICE ADMINISTRATION – CERTIFICATE OF COMPLETION[CTE] 940 Clock Hours

Program Division: Division of Applied Technology
Program Location: Highland Center
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/healthcare/medicalofficeadmin.aspx
Academic Advisor: Veronica Medina, Highland Center, 801-957-3199

Program Faculty:
Associate Professors – Celeste Skinner
Instructors – Julia Miller

Program Description:
The Medical Office Administration Program, a non-credit training program, will provide students with the necessary knowledge and skills to competently perform the duties of an administrative medical assistant as defined by local and national standards. Medical Office Administration employees are trained primarily to work in doctors' offices and other ambulatory care clinics as an integral member of the allied health care delivery team helping with administrative tasks including business functions, medical records, patient intake, billing and insurance and other front office tasks.

The program will be offered in a flexible open entry / open exit format. They will be trained in administrative areas of medical assisting along with CPR and First Aid. The curriculum will allow the students to gain competency in cognitive, psychomotor and affective competencies.

Instruction will be achieved with a combination of classroom and clinical activities that will include experience in a healthcare facility. Students must demonstrate proficiency by passing all courses and competencies required in the program before being placed in a clinical site for the externship. Students complete a 160 hour unpaid clinical externship at a health care facility contracted with the college. Students are required to provide the externship coordinator of the Applied Technology division of the School of Applied Technology and Professional Development, evidence of completion of these hours and satisfactory performance signed by the clinical administrative supervisor.

Upon successful completion of the coursework and externship at a satisfactory rate of 80% or better and receipt of all necessary documentation the student will receive the Certificate of Completion.

Career Opportunities:
For state and national occupation information, visit http://onlinelonetcenter.org/find and enter the following O*Net code:

- 43-1011.00 First-Line Supervisors/Managers of Office and Administrative Support Workers

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
Reading 10
Vocabulary 10
Math 8
Current Immunization Status for: Tdap, MMR, TB, Hep B, Varicella, Influenza
Background Check
Drug Screen
Minimum age 16 years (must be 18 for externship)

Estimated Cost for Students:
Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/healthcare/medicalofficeadmin.aspx

Estimated Time to Completion:
940 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
1. Students learn cognitive, psychomotor and affective training in anatomy, physiology, and medical terminology.	1,2,4,5,6,7
2. Students learn cognitive, psychomotor and affective training using applied mathematics and finance practices.	1,3,4,5,6
3. Students learn cognitive, psychomotor and affective training concepts of effective communication.	1,2,5,6,7
4. Students learn cognitive, psychomotor and affective training in administrative functions.	1,2,5,6,7
5. Students learn cognitive, psychomotor and affective training in insurance and managed care, including procedural and diagnostic coding.	1,3,4,5,6
6. Students learn cognitive, psychomotor and affective training legal and ethical areas of healthcare.	1,4,5,6
7. Students learn AHA Healthcare Provider CPR and First Aid.	1,3,4,5,6,7
8. Students prepare to pass industry certifications following program completion.	1,3,5,6,7
10. Students demonstrate mastery of job seeking skills and customer service skills	1,2,5,6,7

REQUIRED COURSES: (940 CLOCK HOURS)

COURSE		Hours	PREREQUISITE
KAOS 0115	Keyboarding/Skillbuilding	80	
KAOS 0170	Computer Concepts	30	
KAOS 0250	Customer Service Life Skills	60	
KAOS 0185	Basic Word Processing	40	
KAOS 0245	Comprehensive Business Communications	90	
KAOS 0145	Basic Ten-Key	25	
KACT 0115	Basic Spreadsheet	40	
KMOA 0111	Medical Terminology	70	
KMOA 0145	Anatomy & Physiology	50	
KMOA 0120	Medical Law & Ethics	60	
KMOA 0130	Psychology for Healthcare	30	
KMOA 0155	Medical Office Procedures I	60	
KMOA 0170	Medical Office Procedures II	60	
KMOA 0180	Medical Office Procedures III	60	
KMOA 0101	First Aid / CPR	10	
KWRK 0515	Job Seeking Skills	15	
KMOA 0211	Med Office Externship	160	KMOA 0180

CERTIFICATES EARNED WITHIN THE PROGRAM

American Heart Association Healthcare Provider CPR
American Heart Association First Aid

CERTIFICATES FOR WHICH STUDENTS ARE PREPARED FOR UPON PROGRAM COMPLETION (Additional fees apply)

American Medical Technologists: Certified Medical Administrative Specialist (CMAS)
National Center for Competency Testing: Certified Medical Office Assistant (CMOA)

FITNESS TECHNICIAN– ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 64 credits minimum

Health and Lifetime Activities Department
Taylorsville Redwood Campus, LAC 201, (801) 957-5055
General Information: (801) 957-7522
www.slcc.edu/hla
Academic Advisor: Devan Church, SI 209, (801) 957-4858
Program Advisor: LAC 221, (801) 957-5013

Program Faculty:
Associate Professors - Dollie Richards, Jean Widdison
Assistant Professors – Chad Harbaugh, Maryln Harmer, Julie Morgan, Paul Roberts, Julia Erbacher, L. Nate Thomas

Program Description: The Fitness Technician Program is designed to train students to meet the growing demand in the fitness profession for personal trainers. Core courses include curriculum in nutrition, kinesiology, exercise physiology, client motivation, fitness assessment, program design and principles of weight training, flexibility, and cardio fitness. An internship of 120 hours is required to complete the degree.

Successful completion of the program prepares the graduate to sit for a certification from various national certifying organizations including (but not limited to): the American College of Sport Medicine (ACSM), the National Academy of Sports Medicine (NASM), the National Strength and Conditioning Association (NSCA), and the American Council on Exercise (ACE).

Career Opportunities: There is a need for well-trained Personal Trainers/Fitness Consultants.

Transfer/Articulation Information: Program is not meant to transfer/articulate as it is meant to lead directly into a fitness career. Some classes do transfer to four year institutions, check with their advisors for transfer information.

Program Entry Requirements: Open enrollment program

Program/Course Fees: HLTH 1200 requires a $50 course fee

Estimated Cost for Students: Beyond SLCC tuition and fees, total textbook cost is approximately $1,200

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters

Specialized Accreditation: Opportunity to certify through the American College of Sports Medicine (ACSM), taken during HLTH 2430.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will demonstrate knowledge of human anatomy and physiology, as they relate to movement and exercise.	1, 3, 7
Students will demonstrate an understanding of strength, flexibility, and cardiorespiratory training principles.	1
Students will demonstrate knowledge of and the skills to evaluate and assess health and fitness levels in potential clients, using current industry markers.	1, 2, 4, 7
Students will demonstrate the knowledge and skill of behavior modification and motivational interview techniques when working with	1, 2, 4

fitness clients.	
Students will demonstrate an understanding of the fitness industry business practices, certifications, ethics, laws, scope of practice and professionalism.	1, 2, 5
Students will demonstrate the knowledge necessary to design and implement a fitness program specific to client goals, age, gender, fitness levels, and physical limitations.	1, 2, 4
Students will certify with a nationally recognized certifying body preparing them for work in the fitness industry.	1, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math (QS)	3	A	MATH 0990 or appropriate Accuplacer score

OR

Any approved QS course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Eff Comm	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1010	Customer Service	3	A	
OR				
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional course (three credits) from one of the following distribution areas:

COURSE	CR
*Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
*Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

*__NOTE__: BIOL 1090, HLTH 1050, HLTH 1500 cannot be used for General Education Distribution credit.

REQUIRED COURSES: (44 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*BIOL 1090	Human Biology	3	A	
HLAC 1062	Flexibility for Fitness	1	A	
HLAC 2105	Prin Cardiorespitory Train	1	A	
HLAC 2110	Prin Weight Training	1	A	
HLTH 1020	Foundations Nutrition	3	A	
HLTH 1200	First Aid/Safety	3	A	
*HLTH 1500	Lifetime Wellness & Fit	3	A	
HLTH 2021	Nutrition for Fit & Sport	3	A	HLTH 1020
HLTH 2100	Fit Motivation & Beh Resp	3	A	
HLTH 2200	Kinesiology	3	A	BIOL 1090
HLTH 2250	Exercise Physiology	3	A	BIOL 1090

HLTH 2400	Exercise Special Populations	3	F, Sp	HLTH 2250
HLTH 2415	Functional Performance	2	A	HLTH 2200
HLTH 2425	Eval & Assess of Fitness	3	A	HLTH 2200
HLTH 2430	Design Fitness Trn Prog	3	F, Sp	HLTH 2425
HLTH 2435	Personal Fit Trn Industry	3	F, Sp	
HLTH 2450	Personal Trainer Internship	3	F, Sp	Instructor approval

COMPLETE ONE HEALTH ELECTIVE COURSE: (3 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*HLTH 1050	Life, Society, and Drugs	3	A	
HLTH 1255	Mind/Body Connection	3	F, Sp	
HLTH 1325	Intro Group Fitness Instructor	3	A	
HLTH 1350	Intro Yoga Instructor Train	3	A	HLAC 1057, 1058 or Personal Practice

ELECTIVE COURSES: (SELECT 4 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
HLAC 1000	Cardio Fitness	1	A	
HLAC 1013	Body Strength & Tone	1	A	
HLAC 1014	CrossFit	1	A	
HLAC 1015	Spinning	1	A	
HLAC 1020	Step	1	A	
HLAC 1025	Interval Training	1	A	
HLAC 1030	Kickboxing	1	A	
HLAC 1035	Zumba	1	A	
HLAC 1051	TRX	1	A	
HLAC 1052	Boot Camp	1	A	
HLAC 1055	Pilates I	1	A	
HLAC 1057	Yoga I	1	A	
HLAC 1096	Fitness for Life	1	A	

SAMPLE SCHEDULE

FIRST SEMESTER		SECOND SEMESTER	
ENGL 1010	3	COMM 1010	3
BIOL 1090	3	HLAC CHOICE	1
HLTH 1020	3	HLAC 1062	1
HLTH 1200	3	HLTH ELEC	3
HLAC 2105	1	HLTH 2021	3
HLAC 2110	1	HLTH 2100	3
HLAC CHOICE	1	HLTH 2200	3
HLAC CHOICE	1		
Total	**16**	**Total**	**17**
THIRD SEMESTER		**FOURTH SEMESTER**	
FIN 1380	3	MKTG 1960	3
HLTH 1500	3	DISTRIBUTION	3
HLTH 2250	3	HLAC CHOICE	1
HLTH 2425	3	HLTH 2400	3
HLTH 2435	3	HLTH 2430	3
HLTH 2415	2	HLTH 2450	3
Total	**17**	**Total**	**16**

HEALTH INFORMATION TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 65 credits minimum

Program Division: Allied Health
Program Location: Jordan Campus, JHS Building, Room 059
General Information: 801-957-7522
Program Information: 801-957-6009
Program Website: http://www.slcc.edu/hit/index.aspx
Academic Advisor: Jordan Campus, JHS 047, 801-957-6215

Program Faculty:
Instructors — Kristy Conlin, Diana Carroll, Jana Tucker, Ruben Rocha, Amy Wilson, Janalynne Thorley, Wayne Larson, Diane Robinson

Program Description: The program will train students in medical records and health information technology managing patients' health information to include medical history, symptoms, examination results, diagnostic tests, treatment methods, and all other healthcare provider services. The program will expose students to the use of electronic health records/electronic medical records (EHR/EMR), computer software, EHR security, and analyzing electronic data to improve healthcare information, maintain data on patient safety, patterns of disease, disease treatment and outcome, and meaningful use protocols. The program will incorporate medical coding, including the new ICD 10 protocols, database and medical records management. The program will introduce students to the emerging technology field in healthcare and the program will prepare students to enter the workforce or continue on to a bachelor's degree in health informatics or health information technology or management.

The Registered Health Information Technician exam can be completed by program graduates (National Commission for Certifying Agencies [NCCA] and American Health Information Management Association [AHIMA]). The proposed courses and design of curriculum align with the AHIMA standards and Commission on Accreditation for Health Information and Information Management Education {CAHIIM} standards.

The program will apply for candidacy by the CAHIIM in 2014.

Career Opportunities: According to the Bureau of Labor and Statistics and Utah Department of Workforce Services, employment is expected to grow 21% which is faster than average and job prospects should be very good and much faster than the average for all occupations through 2018. Technicians with a strong understanding of technology and computer software will be in particularly high demand. With the increasing use of electronic health records, more technicians will be needed to complete the new responsibilities associated with electronic data management, interoperability and data extraction.

Transfer/Articulation Information: The transfer and articulation agreements are being pursued with compatible programs at USHE institution Weber State University, Utah State University, and with Western Governors University. This program is designed for students to acquire knowledge and skills to successfully pass exam/licensure and continue further education with a bachelor's or master's degree.

Program Entry Requirements:

ADMISSIONS PROCESS

1. If not a current SLCC student or attended in past two years, apply for college admission as a matriculated degree-seeking student.
2. High School Graduate of equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at www.slcc.edu/transcriptevaluation/transferring-to-slcc. This process may take 4-6 weeks and must be completed before a student's SLCC application will be considered.

5. Complete Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC, (required before you are able to register for classes that have MATH and RDG/WRETG courses as prerequisites). See: www.slcc.edu/testing/
6. Submit completed application and required documentation to the Health Sciences Admissions Office, according to dates listed below.
7. Students transferring from the HIT certificate program will be able to apply the courses to the Applied Associate of Science degree. Please see the Academic Advisor for the specifics.

APPLICATION REQUIREMENTS

1. Complete Application Packet for Program.
2. Proof of Immunizations; include in application packet.
3. Background check through SLCC's authorized vendor; provide confirmation number on application.
   NOTE: See program website for detailed information http://www.slcc.edu/hit

IMMUNIZATION / DRUG TESTING / BACKGROUND REQUIREMENTS

- Annual Influenza Vaccination
- PPD (tuberculosis skin test)
- Tetanus, Diphtheria and Pertussis (Tdap)
- Measles, Mumps, Rubella (MMR)
- Varicella (Chicken Pox)
- Hepatitis B vaccination series
- Hepatitis A vaccination series
- Drug Testing
- Completed Criminal Background via SLCC vendor

Estimated Cost for Students: Tuition per semester: www.slcc.edu/students-future/tuition-fees
Costs outside tuition vary but may include but are not limited to: text books, travel associated with Externship.

Estimated Time to Completion: The AAS HIT Program is four semesters in length with each new cohort beginning in the Fall OR Spring semester. Prerequisite courses are not included in the four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Health Records and Data Content 1. Collect and maintain health data. 2. Analyze health records to ensure that documentation supports the patient's diagnosis and procedures, and reflects progress, clinical findings, and discharge status. 3. Select patient-specific documentation from other sources. 4. Apply clinical vocabularies and terminologies used in the organization's health information systems.	1 – Acquire substantive knowledge 4 – Think Critically and Creatively 7 – Develop Computer and Information Literacy
Health Information Requirements and Standards 1. Evaluate the accuracy and completeness of the patient record as defined by organizational policy and external regulations and standards. 2. Assess compliance with organization-wide health record documentation guidelines. 3. Report compliance finding according to organization policy. 4. Operate in preparing the organization for accreditation, licensing and/or certification surveys.	2 – Communicate Effectively 6 – Work Professionally and Constructively
Clinical Classification Systems 1. Employ electronic applications to support clinical classification and coding (for example, encoders). 2. Recognize diagnosis procedures codes using ICD-9-CM official coding guidelines. a. Recognize principal diagnosis (Inpatient) or first listed diagnosis (Outpatient). b. Recognize secondary diagnosis (es), including complications and	1 – Acquire substantive knowledge 3 – Develop Quantitative Literacy 7 – Develop Computer and Information Literacy

comorbidities (CC). c. Recognize principal and secondary procedure(s). 3. Recognize procedure codes using CPT coding guidelines. 4. Recognize appropriate HCPCS codes. 5. Identify discrepancies between coded data and supporting documentation. 6. Consult reference materials to facilitate code assignment.	
Reimbursement Methodologies 1. Validate the data collected for appropriate reimbursement. a. Validate Diagnosis Related Groups (DRGs). b. Validate Ambulatory Payment Classifications (APCs). 2. Comply with the National Correct Coding Initiative. 3. Validate the National and Local Coverage Determinations (NDC/LDC) for medical necessity.	3 – Develop Quantitative Literacy 4 – Think Critically 7 – Develop Computer and Information Literacy
Information and Communication Technologies 1. Employ computer to ensure data collection, storage, analysis and reporting of information. 2. Employ common software applications (for example, word processing; spreadsheets; e- mail) in the execution of work processes. 3. Employ specialized software in the completion of HI processes.	7 – Develop Computer and Information Literacy
Privacy, Confidentiality, Legal, and Ethical Issues 1. Apply policies and procedures for access and disclosure of personal health information. 2. Evaluate and release patient-specific data to authorized individuals. 3. Apply ethical standards of practice. 4. Define and report privacy issues/problems. 5. Appraise data integrity and validity using software or hardware technology.	2 – Communicate Effectively 5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS: (13 CREDITS)

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing(EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	Prereq: RDG 0900; within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score.

COMMUNICATION (CM)

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effec Comm	3	A	COMM 1010

HUMAN RELATIONSHIPS (HR)

COURSE	CR	SEM	PREREQUISITE
The HR requirement is met through program requirements.			

DISTRIBUTION AREAS: 3-4 CREDITS

COURSE	CR	SEM	PREREQUISITE
Physical Science (PS)	3-4		Choose one Physical Science (PS) course
*CHEM 1110 recommended			

NOTE: The prerequisite for BIOL 2320/2325 Human Anatomy is BIOL 1610/1615 College Biology. BIOL 1610/1615 will fulfill the general education BS requirement.

MAJOR COURSES REQUIREMENTS: (52 CREDITS)

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	MATH 0990 w/C grade or better, or appropriate Accuplacer score AND RDG 0990 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	MATH 0990 w/C grade or better, or appropriate Accuplacer score AND RDG 0990 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1610
BIOL 2320	Human Anatomy	4	A	BIOL 1610/1615 w/ a C or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2420	Human Physiology	4	A	BIOL 1610/1615; CHEM 1110 or CHEM 1210 (all with a C or better). Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420
CSIS 2010	Business Computer Proficiency	3	F, Sp	Recommended Prerequisite: CIS 1020 or equivalent business software experience
CSIS 2050	Advance Database Applications	3	F, Sp	Prerequisite: CSIS 2010.
CSIS 2060	Decision Support Systems	3	F, Sp	Prerequisite: CSIS 2010.
HIT 1040	Pathophysiology for HIT	3	A	Admission to the program
HIT 1050	Medical Business Practices	3	A	Admission to the program
HIT 1100	Medical Terminology for Health Information Technology	3	A	Admission to the program
HIT 1120	Healthcare Quality Improvement	2	F, Sp	Admission to the program
HIT 1080	Clinical Classification Systems	2	F, Sp	Admission to the program
HIT 2110	Health Informatics	2	F, Sp	Admission to the program
HIT 2115	Health Informatics Lab	1	F, Sp	Admission to the program
HIT 2120	Pharmacotherapy	3	F, Sp	Prerequisite: HIT 1040; Admission to the program
HIT 2240	Healthcare Data Content and Structure	3	F, Sp	Admission to the program
HIT 2260	Healthcare Reimbursement	3	F, Sp	Prerequisite: HIT 1060, HIT 1040, HIT 1100; Admission to the program
HIT 2280	Advanced Clinical Classification Systems	2	F, Sp	Prerequisite: HIT 1060, HIT 1040, HIT 1100; Admission to the program
HIT 2270	Professional Practice Exp.	1	F, Sp	Admission to the program
HS 2050	Cultural, Legal, & Ethical Issues	3		

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
CSIS 2010	3	HIT 1050	3
HIT 1100	3	BIOL 2320/2325	4
ENGL 1010	3	CSIS 2050	3
BIOL 1610/1615	4	MATH 1010	4
COMM 1010	3	HS 2050 (ID/DV)	3
Total	**16**	**Total**	**17**

FALL SEMESTER		**SPRING SEMESTER**	
HIT 1040	3	HIT 2240	3
HIT 1120	2	HIT 2260	3
CSIS 2060	3	HIT 2120	3
HIT 1080	2	BIOL 2420/2425	4
Any (PS) course*	3-4	HIT 2280	2
HIT 2110	2	HIT 2270	1
HIT 2115	1		
Total	**16-17**	**Total**	**16**

*CHEM 1110 is highly recommended.

Advising Notes:
The Health Information Technology AAS program accepts 25 students every Fall and Spring semesters. All prerequisite courses must be completed prior to submitting an application to the program. HIT courses will be offered on-line and in a hybrid classroom environment and students must maintain a C grade or better in each required course. Please visit the Health Information Technology website for more information: http://www.slcc.edu/hit/index.aspx

Additional General Education courses required to complete an AS degree and transfer seamlessly:

GENERAL EDUCATION REQUIREMENTS: (28-30 CREDITS)

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 2010	Intermediate Writing(EN)	3	A	ENGL 1010 w/C grade or better
or				
ENGL 2100	Technical Writing(EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE STUDIES (QS) 3-5 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Literacy (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
or				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
or				
MATH 1050	College Algebra	4	A	RDG 0990; within the last year, MATH 1010 w/ a C grade or better, or appropriate Accuplacer score

Or any approved QL course

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING:

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

Choose one course (three credits hours) from each of the following Distribution Areas.

COURSE	CR	SEM	PREREQUISITE
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Social Science (SS)	3		

HEALTH INFORMATION TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE] 39 credits minimum

Allied Health Division
Jordan Campus, JCHSC
Program Information, (801) 957-6215
www.slcc.edu/hs
Academic Advising, Jordan Campus, JHS 047, (801) 957- 6407
Health Science Admissions, JHS 047, (801) 957-6253

Program Description: The program will train students in medical records and health information covering assembling patients' health information to include medical history, symptoms, examination results, diagnostic tests, treatment methods, and all other healthcare provider services. The program will expose students to the use of electronic health records (EHR/EMR), computer software, EHR security, and analyzing electronic data to improve healthcare information, maintain data on patient safety, patterns of disease, and disease treatment and outcome. The program's focus will incorporate medical coding, including the new ICD 10 protocols and procedures that specializing in codifying patients' medical information for reimbursement purposes.

The Certified Coding Associate (CCA) exam can be completed by program graduates (National Commission for Certifying Agencies [NCCA] and American Health Information Management Association [AHIMA]). The proposed courses and design of curriculum align with the AHIMA standards and CAHIIM standards.

"The CCA credential distinguishes coders by exhibiting commitment and demonstrating coding competencies across all settings, including both hospitals and physician practices" (AHIMA).

Career Opportunities: According to the Bureau of Labor and Statistics and Utah Department of Workforce Services, employment is expected to grow faster than average and job prospects should be very good and much faster than the average for all occupations through 2018. Technicians with a strong understanding of technology and computer software will be in particularly high demand. Employment growth will result from the increase in the number of medical tests, treatments, and procedures that will be performed. In addition, with the increasing use of electronic health records, more technicians will be needed to complete the new responsibilities associated with electronic data management.

Transfer/Articulation Information: The transfer and articulation agreements will be pursued with compatible programs at USHE institutions. This program is designed for students to acquire knowledge and skills to successfully pass exam/licensure. An AS degree is not required, but students seeking an advanced degree may seek the advice of an academic advisor.

Program Entry Requirements:

ADMISSION PROCESS

1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at http://www.slcc.edu/transcriptevaluation/transferring-to-slcc.aspx. This process may take 4-6 weeks and must be completed before a student's application will be considered.
5. Complete Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC (required before you are able to register for classes that have MATH and RDG/WRTG courses as prerequisites). See: www.slcc.edu/testing
6. Program course prerequisites are as follows:
   a. Placement into MATH 0990 within one year.
   b. Placement into ENGL 1010 within two years.

APPLICATION REQUIREMENTS

See the Health Information Technology webpage for essential information regarding completion of application requirements www.slcc.edu/hit

Preparation Note: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the degree. Placement testing for English and Math must be done upon entry to the College unless students have had prior college-level experience. Prerequisites may be met through higher-level courses, transfer credit, Advanced Placement (AP) credit or College Level Examination Program (CLEP) credit.

To graduate from the program the student must meet the program admission criteria as outlined above, receive a C grade or better in each required program course and complete the following General Education courses with a C grade or better.

Total Program/Course Fees: Course Fees $ 75 to $150.

Estimated Cost for Students: Tuition: see www.slcc.edu/students-future/tuition-fees for rates per semester.

Estimated Time to Completion: If students follow the suggested schedule, time to completion is three semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Assign diagnosis and procedure codes using ICD-10-CM/PCS. Assign procedure codes using CPT/HCPCS. Assign procedure codes using ICD-9-CM 2. Access and evaluate the EHR: An electronic record of health-related information on an individual that conforms to nationally recognized interoperability standards and that can be created, managed and consulted by authorized clinicians and staff across more than one health care organization. 3. Demonstrate an understanding of a Health Information Exchange: The electronic movement of health-related information among organizations according to nationally recognized standards. 4. Demonstrate an understanding of the role of Information Technology as it relates to Healthcare Delivery 5. Demonstrate ability to protect data integrity and validity using software or hardware technology and use spreadsheets, databases, word processing, graphics, presentation, statistical, e-mail) . 6. Demonstrate an understanding of a Health Information Organization (Regional). 7. Describe and evaluate emerging technologies in coding: CAC, Voice Recognition, coding from the EHR, reading imaged documents.	1 – Substantive Knowledge 7 – Develop Computer and Information Literacy
1. Demonstrate the ability to interact in a medical environment and use proper industry terminology for health care environments.	2 – Communicate Effectively 6 – Work Professionally and Constructively
1. Summarize Healthcare institution's billing process and/or revenue cycle process 2. Summarize and identify budget information about health care institutions. 3. Summarize information about major health care reimbursement plans.	3 – Develop Quantitative Literacy 7 – Develop Computer and Information Literacy
1. Evaluate the role of Information Technology as it relates to Healthcare Delivery. 2. Demonstrate an understanding of global issues in healthcare and delivery mechanisms. 3. Protect data integrity and validity using software or hardware technology	4 – Think Critically 7 – Develop Computer and Information Literacy
1. Show maintenance of compliance with regulations and standards associated with health information management, which are distributed by private and governmental agencies (e.g., CMS, JCAHO, NCQA).	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMMUNICATION (CM) 3 credits

Any approved Communications (CM) designated course

HUMAN RELATIONS (HR) 2-3 credits

Any approved Human Relations (HR) designated course

REQUIRED COURSES: (34 CREDITS)

COURSE		CR	SEM	PREREQUISITE
HIT 1010	Intro to Computers	1	F	Admission to program or instructor approval Rec coreq: HIT 1020, 1030, 1040, 1100
HIT 1020	Intro Diagnosis Code	3	F	Admission to program or instructor approval Rec coreq: HIT 1010, 1030, 1040, 1100
HIT 1030	Basic Procedure Code Sys	3	F	Admission to program or instructor approval Rec coreq: HIT 1010, 1020, 1040, 1100
HIT 1040	Pathophysiology for HI	3	F	Admission to program or instructor approval Rec coreq: HIT 1010, 1020, 1030, 1100
HIT 1100	Med Terminology for HI	3	F	Admission to program or instructor approval Rec coreq: HIT 1010, 1020, 1030, 1040
HIT 2110	Health Informatics	3	Sp	HIT 1020 and either HIT 1010 or CIS 1020
HIT 2120	Pharmacotherapy HI	2	Sp	HIT 1040
HIT 2260	Hlthcare Reimburse	3	Sp	HIT 1020, 1030 and 1040
HIT 2240	Hlthcare Data Structure	3	Sp	HIT 1020, 1030 and 1040
HIT 2250	Hlthcare Delivery Sys	3	Sp	HIT 1020, 1030 and 1040
HIT 2220	Inter Diagnosis Code	3	Su	HIT 1020
HIT 2230	Inter Procedure Code	3	Su	HIT 1030
HIT2270	Prof Practice Exper	1	Su	Instructor approval

SAMPLE SCHEDULE

SEMESTER ONE		**SUMMER TWO**	
HIT 1010	1	HIT 2110	3
HIT 1020	3	HIT 2120	2
HIT 1030	3	HIT 2220	3
HIT 1100	3	HIT 2230	3
HIT 1040	3	Communications	3
Total	**13**	**Total**	**14**
SEMESTER THREE			
HIT 2260	3		
HIT 2240	3		
HIT 2250	3		
HIT 2270	1		
Human Relations	2-3		
Total	**12-13**		

Advising Notes: Students may apply to start this program Fall, Spring or Summer semesters. Courses will be offered on-line or in a hybrid classroom environment on the Jordan Campus. Please visit the Health Information Technology website for more information: http://www.slcc.edu/hit/index.aspx

HEALTH SCIENCES – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

School of Health Sciences
Jordan Campus
General Information, (801) 957-4073
Program Information, (801) 957-6215
www.slcc.edu/hs
Academic Advisor, JHSC 047, (801) 957-6215

Program Description: This degree is recommended for students who plan to transfer to four-year colleges. Completion of the Associate of Science degree with a Health Sciences emphasis does not affect the professional status, certification or licensure of graduates of associate of applied science degree programs in the Health Sciences Division.

NOTE: This degree is designed for students already accepted into other Health Sciences programs. It allows for courses already required to achieve a specific Associate of Applied Science degree to be combined with additional courses to earn an Associate of Science degree.

Career Opportunities: Please refer to specific information under the Health Sciences AAS degree options.

Transfer/Articulation Information: Admission into a major program at a transfer institution is solely determined by the transfer institution. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended transfer institution for specific articulation information.

Entry Requirements: Students must be accepted into one of the Health Sciences programs that offers an Associate of Applied (AAS) Science degree.

Estimated Cost for Students: Cost of AAS degree courses plus tuition, fees and books for remainder of General Education Requirements.

Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Student will demonstrate a rate, of either intent for immediate employment or intent for admission to a baccalaureate program, of at least eighty percent (80%).	1 – Substantive Knowledge
Eighty percent (80%) of graduates will rank "course content" and "quality of instruction" at the "GOOD" level or better.	1 – Substantive Knowledge
Students will be effective in verbal, written and non-verbal communications.	2 – Communicate Effectively
Students will possess basic mathematic knowledge appropriate to their field.	3 – Develop Quantitative Literacy
Students will utilize critical thinking skills in problem solving and decision-making.	4 – Think Critically
Students will demonstrate the ability to work with others in a professional and constructive manner in the healthcare environment.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

NOTE: University of Utah Nursing requires MATH 1040.

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

NOTE: For this program, students may select an additional DV course.

DISTRIBUTION AREAS:
Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: Some of the General Education and Institutional Requirements may already be met in the AAS degree requirements.

REQUIRED COURSES:

An Associate of Science degree can be earned in the following AAS degree options in addition to completing the above General Education requirements. For information on specific courses, contact the Health Sciences Advising Receptionist, (801) 957-6215, to schedule an appointment with an academic advisor.

NOTE: Students must also complete their AAS degree requirements in either: Dental Hygiene, Mortuary Science, Occupational Therapy Assistant, Physical Therapist Assistant, Radiologic Technology or Nursing.

DENTAL HYGIENE OPTION[CTE]

This option does NOT make the Dental Hygiene AAS degree transferable to a Dental Hygiene baccalaureate degree.

MORTUARY SCIENCE OPTION[CTE]

This option does NOT make the Mortuary Science AAS degree transferable to a Mortuary Science baccalaureate degree.

OCCUPATIONAL THERAPY ASSISTANT OPTION[CTE]

This option does NOT make the Occupational Therapy Assistant AAS degree transferable to an Occupational Therapy baccalaureate degree.

PHYSICAL THERAPIST ASSISTANT OPTION[CTE]

This option does NOT make the Physical Therapist Assistant AAS degree transferable to a Physical Therapy baccalaureate degree.

RADIOLOGIC TECHNOLOGY OPTION[CTE]

This option does NOT make the Radiologic Technology AAS degree transferable to a Radiologic Technology baccalaureate degree.

NURSING OPTION[CTE]

This option may be helpful for the Nursing AAS degree RN who is seeking admission to RN to BSN completion programs. Call the nursing academic advisor at (801) 957-6065 for additional information related to these programs.

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet requirements of first semester courses should plan on extra time to complete the program.

HISTORY – ASSOCIATE OF ARTS (AA) 62 credits minimum

History, Anthropology and Political Science Department
Taylorsville Redwood Campus, AAB 165
Associate Dean: Marianne McKnight, AAB 165Q, 801-957-4547
Administrative Assistant: Laura Rice, AAB 165, 801-957-4307
www.slcc.edu/history
Academic Advisor: Sidney McGuire Brown, AAB 237B, 801-957-3866

General Information: 801-957-4073

Program Faculty:
Professors – Ernest Randa
Associate Professor – Marianne McKnight, Cyriaque Beurtheret
Assistant Professors – Chris Case, Theodore Moore
Instructors – Tamora Hoskisson

Program Description: The History program is designed to expose students to a variety of history fields and to the methods used by historians. Students who complete the program will be well prepared to undertake upper division history courses or complete a four-year degree. Students should check with the department or Academic Advisor to determine which courses are transferable to other colleges within the Utah System of Higher Education.

Career Opportunities: Teaching history on the secondary and higher education levels; research for governmental agencies, private firms, and NGOs; archival, curating and museum work.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow the suggestion schedule of classes, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will: a) acquire substantive knowledge of the major social, political, and economic themes in a variety of history fields; b) understand the ways in which the study of the past informs the present; c) understand the methodologies historians utilize; d) be able to identify major schools of thought.	1 – Substantive Knowledge
Students will speak and write analytically, comparatively, and persuasively about historical themes, interpretations, arguments and ideas in a skilled and respectful manner.	2 – Communicate Effectively
Students will be able to: a) gather, identify, differentiate and analyze data from both primary and secondary historical sources; b) interrogate and contextualize sources; c) evaluate contested interpretations; d) use evidence to create narrative; e) revise narrative in the light of new findings.	4 – Think Critically

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra	4	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: Courses that meet General Education requirements may be used to meet program requirements. If this option is chosen, student must complete additional elective courses to meet the total credit hour requirement. Please meet with an academic advisor to discuss options.

LANGUAGE (LN) 10 CREDITS IN THE SAME LANGUAGE

COURSE		CR	SEM	PREREQUISITE
LANG 1010		5	A	
LANG 1020	(LN)	5	A	LANG 1010

NOTE: *LANG prefix does not exist—that prefix would be replaced by the prefix for the individual language chosen: ARB, CHI, FRN, GER, ITL,JPN, NAV, POR, RUS, SAM, SPN, TNG

Students who want to earn a BA degree after transfer from SLCC are advised to take a language that the chosen school offers as upper-division to meet the BA language requirement. Not all colleges and universities offer all languages; consult with the chosen school's language department.

REQUIRED COURSES: (15 CREDITS)

TAKE BOTH OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
HIST 2700	US Hist to 1877 (SS)	3	A	
HIST 2710	US Hist Since 1877 (SS)	3	A	

AND

SELECT ONE COURSE FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
HIST 1100	West Civilization (SS)	3	A	
HIST 1500	World Hist to 1500 (SS)	3	A	

AND

SELECT ONE COURSE FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
HIST 1110	West Civ Since 1300 (SS)	3	A	
HIST 1510	World Hist Snc 1500 (SS)	3	A	

AND

SELECT ONE COURSE FROM THE FOLLOWING NOT TAKEN ABOVE

COURSE		CR	SEM	PREREQUISITE
HIST 1100	West Civilization (SS)	3	A	
HIST 1110	West Civ Since 1300 (SS)	3	A	
HIST 1500	World Hist to 1500 (SS)	3	A	
HIST 1510	World Hist Snc 1500(SS)	3	A	
HIST 1300	Col Latin Amer(SS)	3	F	
HIST 1310	Mod Latin Amer(SS)	3	Sp	
HIST 1450	Middle Eastern Civ(SS)	3	F	
HIST 1460	Modern Mid East Civ(SS)	3	Sp	
HIST 2950	Archival Internship	3	A	

ELECTIVES: (SELECT 3 CREDITS FROM ANY COLLEGE COURSE NUMBERED 1000 OR ABOVE)

COURSE		CR	SEM	PREREQUISITE
ANTH 2011	People & Cultures SW(HU)	3	F	
ANTH 2120	Sacred Traditions(SS)	3	Sp	
HIST 1300	Colonial Latin America(SS)	3	F	
HIST 1310	Modern Latin America(SS)	3	Sp	
HIST 1450	Early Middle East(SS)	3	F	
HIST 1460	Modern Middle East(SS)	3	Sp	
HIST 1500	World History to 1500(SS)	3	A	
HIST 1510	World Hist Since 1500(SS)	3	A	
HIST 2120	Sacred Traditions(HU)	3	Sp	
HIST 2200	Americanization (SS,DV)	3	A	
HIST 2600	Native Amer Voices(SS,DV)	3	Sp	
HIST 2800	Utah Diverse Heritg (SS,DV)	3	F, Sp	
HIST 2950	Archival Internship	3	A	
EDU 2150	Intro to Multicultural Ed	3	F, Sp	

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
MATH 1030	3	DISTRIBUTION (2)	6
OR		HIST 1510	3
MATH 1040	3	**OR**	
OR		HIST 1300	3
MATH 1050	4	**OR**	
AI	3	HIST 1310	3
LANG 1010	5	**OR**	
HLAC	1	HIST 1450	3
		LANG 1020	5
Total	**15-16**	**Total**	**17**

FALL SEMESTER		**SPRING SEMESTER**	
HIST 1100	3	HIST 1110	3
HIST 2700	3	HIST 2710	3
DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
ELEC	3	STUDENT CHOICE	3
Total	**15**	**Total**	**15**

Advising Notes:
It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken.

To register for HIST 1700 you must take and pass RDG 0990 with a C or better or have appropriate Accuplacer, ACT or SAT reading score.

Class Availability: The semesters in which courses are taught are listed above. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment

DEPARTMENTAL OFFERINGS

COURSE		CR	SEM	PREREQUISITE
HIST 1100	West Civ to 1300 (SS)	3	F, Sp	
HIST 1110	Civ Since 1300 (SS)	3	F, Sp	
HIST 1300	Colonial Latin Am(SS)	3	F	
HIST 1310	Mod Latin America(SS)	3	Sp	
HIST 1450	Middle Eastern Civ (SS)	3	F	
HIST 1460	Modern Middle East (SS)	3	Sp	
HIST 1500	World Hist to 1500 (SS)	3	A	
HIST 1510	World Hist Since 1500(SS)	3	A	
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C or better or appropriate Accuplacer score
HIST 1900	Special Studies	1-2	A	Instructor approval
HIST 2200	Americanization (SS, DV)	3	A	
HIST 2600	Native Amer Voices(SS,DV)	3	F, Sp	
HIST 2700	US Hist to 1877 (SS)	3	A	
HIST 2710	US Hist Since 1877 (SS	3	A	
HIST 2800	Utah Div Hertg(SS,DV)	3	F,Sp	
HIST 2900	Spec Topics in Amer Hist	3	F, Sp	
HIST 2950	Archival Internship	3	A	

HUMANITIES – ASSOCIATE OF ARTS (AA) 61 credits minimum

Humanities, Language and Culture Department
Taylorsville Redwood Campus, AAB 165
General Information, (801) 957-4073
Program Information, (801) 957-4338
www.slcc.edu/humanities
Academic Advisor, AAB 237B, (801) 957-3866

Associate Dean: Dr**.** Paul Allen

Program Faculty:
Associate Professors – Dr. Jane Drexler, Dr. Alexander Izrailevsky, Suzanne Jacobs
Assistant Professors – Dr. Wijitha Bandara, Claire Peterson

Program Description: The Humanities Program provides students a broad variety of courses in Humanities, Philosophy, and Cultural Studies including Religious Studies. These courses range from general surveys to specialized topics. The essentially interdisciplinary character of the program combined with the diversity of the methodological approaches and pedagogical devices used by the faculty create an effective educational model to introduce students to both the classical foundations of world cultures and to the recent developments arising out of them. The program goes far beyond an emphasis on coverage and content; each course cultivates an attentiveness to written words and auditory and visual images, critical thinking, and interdisciplinary understanding. Additionally, all regular offerings carry General Education designations.

As structured, the program is designed to provide students with a vehicle to broaden their perspectives and deepen their understandings of the world around them as well as provide a variety of avenues to further education. In addition to a core class and a 2000-level language, students in the program may choose from among four emphasis tracks depending on their areas of interest or desire for more specialization. These are: General Humanities, Philosophy, Religious Studies, and Culture. Students will take a minimum of 3 courses in a track.

NOTE: Students must receive a minimum of "C" grade or better in all program required courses.

Career Opportunities: A Humanities education develops in students the fundamental skills upon which all professions rest: analytical thinking, critical reasoning, logic, clarity of expression, and lucid writing. Humanities graduates enjoy careers in such diverse fields as advertising, banking, foreign service, journalism, law, public administration, publishing, and teaching.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Cost for Students: Estimated cost of books and supplies per semester $100 to $150

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will: • Demonstrate the fundamental knowledge to be able to transfer to a variety of four-year degrees. • Understand key concepts, events, personalities, and varieties of media relating to the history, expression, and importance of key questions about the human condition and the values upon which those questions are based.	1 – Substantive Knowledge 2 – Communicate Effectively 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
Students will articulate and convey intended meaning effectively using verbal and non-verbal methods of communication that demonstrate an understanding of the methodologies of the humanities and key concepts/issues regarding the human condition.	2 – Communicate Effectively
Students will think independently, analytically, critically, and creatively	4 – Think Critically

about the products of culture and the information they contain. Specifically they will be able to: • identify, analyze and evaluate arguments as they occur in their own and others' work • read, view, and listen to a variety of humanities texts – poems, play, stories, speeches, paintings, symphonies, etc. – and demonstrate improved facility in comprehension, interpretation, and argument • learn to situate the events and patterns, customs and beliefs, thoughts and symbols of people throughout time in their appropriate cultural contexts • make connections across disciplines	
Students will develop broader perspectives and a deeper understanding of their community and the world through an understanding and appreciation of human diversity.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
For this program, students may select an additional DV course.	3	A	

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: The department recommends, but does not require, students take one of the following for the Interdisciplinary (ID) course:

COURSE		CR	SEM	PREREQUISITE
GEOG 1300	Regional Geography	3	A	
SOC 1020	Social Problems	3	A	

LANGUAGE (LN) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
LANG 1020	(LN)	5		LANG 1010

NOTE: LANG prefix does not exist—that prefix would be replaced by the prefix for the individual language chosen: ARB, CHI, FRN, GER, ITL,JPN, NAV, POR, RUS, SAM, SPN, TNG

REQUIRED COURSES: (10 CREDITS)

COURSE		CR	SEM	PREREQUISITE
HUMA 1100	Intro Humanities (HU)	3	A	
OR				
HUMA 1010	Essentials Humanities (HU)	4	F, Sp	

LANGUAGE

COURSE		CR	SEM	PREREQUISITE
LANG 2010		4	F, Sp	LANG 1020
OR				
LANG 2020		4	F, Sp	LANG 2010

ADDITIONAL DIVERSITY ELECTIVE (SELECT ONE ADDITIONAL COURSE FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ART 1375	Photo Diversity(FA,DV)	3	A	ART 1050 or 1310 w/C grade or better
ENGL 1050	Rdg Contmp Cultr(HU,DV)	3	A	
ENGL 1100	Diversity/Pop US Lit(HU,DV)	3	A	
ENGL 2760	Gender & Cultr Stdy(HU,DV)	3	F, Sp	
ENGL 2810	Native Am Lit/Exp(HU,DV)	3	Sp	ENGL 1010 w/C or better
ENGL 2830	Div Women Write(HU,DV)	3	A	
ENGL 2850	GLBT Studies (HU,DV)	3	A	
ETHS 2410	African Amer(SS,DV)	3	Sp	
ETHS 2420	Asian American(SS,DV)	3	F	
ETHS 2430	Mexican American(SS)	3	F	
ETHS 2440	Native Amer Cltr(SS,DV)	3	F	
FLM 1070	Film and Culture(FA,DV)	3	A	
HIST 2200	Americanization(SS,DV)	3	A	
SOC 2370	Gender in Amer(SS,DV)	3	A	PSY 1010 or SOC 1010
SOC 2630	Race & Ethnicity(SS,DV)	3	A	SOC 1010

EMPHASIS TRACKS: (9 CREDITS)

Select 9 credits from any one of the elective tracks below. See the Department Chair or an advisor for options.

GENERAL HUMANITIES TRACK (9 CREDITS)

Select any three courses from all courses listed under the Philosophy, Religious Studies, Art History or Cultural Studies tracks below.

PHILOSOPHY TRACK (SELECT 9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PHIL 1000	Intro Philosophy(HU)	3	A	
PHIL 1120	Ethics & Moral Prob(ID)	3	F, Sp	
PHIL 1250	Reason/Ratl Decision(IN)	3	F, Sp	
PHIL 2300	Intro Environ Ethics (HU)	3	F, Sp	
PHIL 2350	Prin & Phil of Relig(HU)	3	F, Sp	

RELIGIOUS STUDIES TRACK (SELECT 9 CREDITS)

COURSE	CR	SEM	PREREQUISITE

RELS 2010	Intro: Asian Relg & Phil(HU)	3	F,Sp
RELS 2020	Intro: Buddhist Trads(HU)	3	F
HUMA 2120	Sacred Trads(HU)	3	F, Sp
HUMA 2300	World Religions (HU)	3	A
HUMA 2400	Religious Divrsty(HU,DV)	3	F, Sp
HUMA 2310	Great Books I	3	F
PHIL 2350	Prin & Phil of Relig(HU)	3	F, Sp

CULTURAL STUDIES TRACK (SELECT 9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
HUMA 2220	Pacific Am Studies(HU,DV)	3	F, Sp	
HUMA 2320	Great Books II (HU)	3	Sp	
INTL 2040	Immig Exp Lit/Film(HU,DV)	3	F, Sp	
INTL 2060	Intl Lit/S Cult Div(HU,DV)	3	A	
INTL 2230	Global French Cultr(HU)	3	A	
INTL 2240	Latin Amer Studies(HU)	3	A	

ELECTIVE COURSES: (3 CREDITS)

Complete 3 credits from any college course numbered 1000 or above.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
HUMA 1100	3	DISTRIBUTION (4)	12
LANG	5		
STUDENT CHOICE	3		
LW	1		
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
AI	3	HUMA ELEC (2)	6
DISTRIBUTION	3	DIVERSITY	3
HUMA ELEC	3	DISTRIBUTION	3
LANG 2010	4	ELEC	3
MATH 1030	3		
Total	**16**	**Total**	**15**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. The semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

DEPARTMENTAL OFFERINGS

HUMANITIES

COURSE		CR	SEM	PREREQUISITE
HUMA 1010	Essentials Humanities (HU)	3	A	
HUMA 1100	Intro Humanities(HU)	3	A	
HUMA 1900	Special Studies	1-2	F, Sp	
HUMA 2000	CO-OP	2-4	F, Sp	Instructor approval
HUMA 2120	Sacred Trads(HU)	3	F, Sp	
HUMA 2220	Pacific Am Studies (HU,DV)	3	F, Sp	
HUMA 2300	World Religions(HU)	3	A	
HUMA 2310	Great Books I	3	F	
HUMA 2320	Great Books II	3	Sp	
HUMA 2350	His/Phil of Religion(HU)	3	F, Sp	
HUMA 2400	Religious Div US (HU, DV)	3	A	
RELS 2010	Intro: Asian Relg & Phil(HU)	3	F,Sp	
RELS 2020	Intro: Buddhist Trads(HU)	3	F	

PHILOSOPHY

COURSE		CR	SEM	PREREQUISITE
PHIL 1000	Intro Philosophy(HU)	3	A	
PHIL 1120	Ethics & Moral Prob(ID)	3	F, Sp	
PHIL 1250	Reason/Ratl Decision(IN)	3	F, Sp	
PHIL 2300	Intro Environ Ethics (HU)	3	F, Sp	
PHIL 2350	Prin & Phil of Relig(HU)	3	F, Sp	

INTERIOR DESIGN – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 69 credits minimum

Visual Art & Design Department
Taylorsville Redwood Campus
General Information, (801) 957-4073
Program Information, (801) 957-2000
www.slcc.edu/interior
Academic Advisor, Cindy Clark SCC 1.061.ME (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD (801) 957-3361

Program Faculty:
Program Director – Mojdeh Sakaki

Program Description: Students learn to create effective and visually pleasing residential, commercial, industrial and public space designs and layouts. Graduates of the AAS degree will have developed a portfolio to showcase their designs and will be prepared to enter a career as an interior designer, planner, project manager or design consultant.

Upon successful completion of this program, you will be able to:

- Develop an interior design project.
- Integrate trends into interior design.
- Produce interior design sketches.
- Draw objects and spaces to scale.
- Produce drawings using a computer-assisted drafting system.
- Understand color theory and use color to influence mood.
- Suggest finishes and materials for a project.
- Specify the accessories, furniture and equipment for a project.
- Use interior architectural and construction elements.
- Create an interior design concept for a residence.
- Create lighting concepts.
- Produce working drawings and specifications.
- Plan a layout for an industrial commercial or public building.
- Create an interior design concept for a commercial, industrial or public building.
- Promote your interior design services effectively.

Career Opportunities: Program graduates will be prepared to work in residential and commercial design and architecture firms. They may choose to specialize in kitchen and bath, residential, hospitality, health and medical, corporate space or retail design. Another option is to work as a product representative for a wide range of companies that manufacture and market products.

Transfer/Articulation Information: This AAS degree is currently not transferable to four year institution; however, the General Education components are transferable.

Estimated Cost for Students: Approximately $6000 in tuition and $500 in books and supplies.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will develop the knowledge of theories of design (space, line, mass,	1,2,3,4

shape, texture, scale, proportion, balance, rhythm, emphasis, harmony and variety) and their applications.	
Students will demonstrate understanding of visually and volumetrically approaching design problems creatively and logically. Students will be able to measure and estimate the quantity and cost of materials needed for projects, i.e. paint, drapery, floor coverings, wallpaper, etc. They will be able to plan space, read blue prints, use color effectively, and specify the use of architectural materials and elements.	1,2,3,4,5
Students will produce quality presentations using drafting, lettering, and computer-aided design skills.	1,2,3,4,5
Students will use proper industry terminology which will allow them to communicate effectively with other similarly engaged professionals. They will listen effectively and express their ideas clearly.	1,2,3,4,5
Successful students will demonstrate a substantive knowledge of business practices that will prepare them for employment in the interior design field.	1,2,3,4,5
Students will exhibit professionalism through high quality presentations; effective sales techniques, efficient organization, and work cooperatively with clients and co-workers. They will be able to choose and direct the installation of appropriate materials for interior projects.	1,2,3,4,5
Students will create high quality portfolios that can be used for job applications. The portfolio will reflect class work and projects completed during internship where students have the opportunity to assist experienced	1,2,3,4,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math Visual Arts (QS)	3	A	
CMGT 1100	Construction Math (QS)	3	Sp	
FIN 1380	Financial Math (QS)	3	A	MATH 0990 or appropriate Accuplacer score
MATH 1010	Intermediate Algebra (QS)	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm (CM)	3	A	
COMM 1020	Prin Public Speaking (CM)	3	A	
CTEL 1020	Career Speech Skills (CM)	3	A	

HUMAN RELATIONS (HR) CHOOSE ONE COURSE (2-3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ART 1150	Art Foundation Sem(HR)	3	A	
COMM 2110	Interperl Comm (HR,ID)	3	A	
CTEL 1010	Leader/Team Build (HR)	3	A	
LE 1220	Human Relations	3	A	
MKTG 1010	Customer Service (HR)	3	A	
MKTG 1960	Prof in Business	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas:

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3

Social Science (SS)	3

REQUIRED COURSES: (55 CREDITS)

COURSE		CR	SEM	PREREQUISITE
INTD 1010	Intro Interior Design	3	A	
INTD 1100	Drafting for Interior Des	3	A	
INTD 1200	Color for Interiors	3	A	
INTD 1300	Perspective Drawing	3	A	INTD 1100
INTD 1350	ID Rendering Techniques	1	A	Coreq: INTD 1300
INTD 1450	ID AutoCAD I	4	A	INTD 1100
INTD 1460	ID AutoCAD II	4	A	INTD 1450
INTD 1550	Presentation Tech I	3	F, Sp	INTD 1010
INTD 1600	History ID & Furniture	3	F, Sp	
INTD 1700	Contemp Furnishings	3	F, Sp	
INTD 1950	Material&Component Des	3	F, Sp	INTD 1010
INTD 2000	Internship	3	A	INTD 1950 and instructor approval
INTD 2200	Build Const Codes I-Res	3	F, Sp	INTD 1450 and INTD 1950
INTD 2300	Lighting Design & Appl	3	F, Sp	INTD 1450
INTD 2400	Kitchen & Bath Design	3	F, Sp	INTD 1450
INTD 2500	Build Const Codes II –Com	3	F, Sp	INTD 1460
INTD 2600	Professional Practice	4	F, Sp	INTD 2500
INTD 2700	Presentation Tech II	3	F, Sp	INTD 2600

INTERIOR DESIGN ELECTIVES: (NOT REQUIRED, BUT RECOMMENDED)

COURSE		CR	SEM	PREREQUISITE
INTD 2900	Independent Study in ID	3	F, Sp	Instructor approval
INTD 2150	Green Interiors	3	Sp	INTD 1950, 220, 2500
INTD 2800	Historic Preservation	3	F	Instructor approval
ARCH 2310	Model/Rend/Animate I	3		
CMGT 2120	Furniture Design & Const	3		
CMGT 2240	Construction Estimating	3		
CMGT 2470	Build Codes & Inspection	3		
ANTH 1010	Culture & Human Exper	3		

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
INTD 1010	3	INTD 1300	3
INTD 1100	3	INTD 1350	1
INTD 1200	3	INTD 1450	4
INTD 1600	3	INTD 1550	3
INTD 1700	3	INTD 1950	3
ENGL 1010	3		
Total	**18**	**Total**	**17**

FALL SEMESTER		SPRING SEMESTER	
INTD 1460	4	INTD 2000	3
INTD 2200	3	INTD 2600	4
INTD 2300	3	INTD 2700	3
INTD 2400	3	CM	3
INTD 2500	3	DISTRIBUTION	3
HR	2		
Total	**18**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

INTERIOR DESIGN – CERTIFICATE OF PROFICIENCY[CTE] 29 credits minimum

Visual Art & Design Department
Taylorsville Redwood Campus
General Information, (801) 957-4073
Program Information, (801) 957-2000
www.slcc.edu/interior
Academic Advisor, Cindy Clark SCC, 1.061.ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD, (801) 957-3361

Program Faculty:
Program Director – Mojdeh Sakaki

Program Description: The Interior Design program is structured to prepare students for entry into the varied professions within the field of interior design. Students will earn how to identify, research, and creatively solve problems related to the quality of interior environments. Interior Designers provide specialized services for planning both commercial and residential spaces. In addition, student will learn drafting techniques and how to use computer-aided design tools which will help them present their work to clients. Student will also gain an understanding of the legal and ethical issues that guide and direct the profession.

Career Opportunities: Students who successfully complete the program will be able to provide experienced planning services that include: design analysis, space planning and aesthetics, specialized knowledge of interior construction, building codes, equipment, materials and furnishing.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is five semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will develop the knowledge of theories of design (space, line, mass, shape, texture, scale, proportion, balance, rhythm, emphasis, harmony and variety) and their applications.	1,2,3,4
Students will demonstrate understanding of visually and volumetrically approaching design problems creatively and logically. Students will be able to measure and estimate the quantity and cost of materials needed for projects, i.e. paint, drapery, floor coverings, wallpaper, etc. They will be able to plan space, read blue prints, use color effectively, and specify the use of architectural materials and elements.	1,2,3,4,5
Students will produce quality presentations using drafting, lettering, and computer-aided design skills.	1,2,3,4,5
Students will use proper industry terminology which will allow them to communicate effectively with other similarly engaged professionals. They will listen effectively and express their ideas clearly.	1,2,3,4,5
Successful students will demonstrate a substantive knowledge of business practices that will prepare them for employment in the interior design field.	1,2,3,4,5
Students will exhibit professionalism through high quality presentations;	1,2,3,4,5

effective sales techniques, efficient organization, and work cooperatively with clients and co-workers. They will be able to choose and direct the installation of appropriate materials for interior projects.	
Students will create high quality portfolios that can be used for job applications. The portfolio will reflect class work and projects completed during internship where students have the opportunity to assist experienced	1,2,3,4,5

REQUIRED COURSES: (29 CREDITS)

COURSE		CR	SEM	PREREQUISITE
INTD 1010	Intro Interior Design	3	A	
INTD 1100	Drafting for Interior Design	3	A	
INTD 1200	Color for Interiors	3	A	
INTD 1300	Perspective Drawing	3	A	INTD 1100
INTD 1450	Interior Design AutoCAD I	4	F, Sp	INTD 1100
INTD 1600	History of Interior Design and Furniture	3	F, Sp	
INTD 1700	Contemporary Furnishings	3	F, Sp	
INTD 1950	Material & Components of Design	3	F, Sp	INTD 1010
INTD 2600	Professional Practice	4	F, Sp	INTD 1450 and INTD 1950

INTERIOR DESIGN ELECTIVES: (NOT REQUIRED, BUT RECOMMENDED)

COURSE		CR	SEM	PREREQUISITE
INTD 1460	Interior Design AutoCAD II	4	F, Sp	INTD 1450
INTD 1550	Presentation Technique I	3	F, Sp	INTD 1010
INTD 2200	Building Construction & Codes I	3	F, Sp	INTD 1450 and INTD 1950
INTD 1750	Design Psychology	3	F, Sp	INTD 1010
INTD 2150	Green Interiors	3	F, Sp	INTD 1950, INTD 2200, INTD 2500

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
INTD 1010	3	INTD 1450	4
INTD 1100	3	INTD 1300	3
INTD 1200	3	INTD 1700	3
INTD 1600	3	INTD 1950	3
Total	**12**	**Total**	**13**
FALL SEMESTER			
INTD 2600	4		
Total	**4**		

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

LANGUAGE AND CULTURE

Humanities, Language and Culture Department
Taylorsville Redwood Campus, AAB 165
General Information, (801) 957-4073
Program Information, (801) 957-4338
www.slcc.edu/languages
Academic Advisor, AAB 237B, (801) 957-3866

Associate Dean: Dr. Paul Allen

Program Faculty:
Associate Professors – Dr. Jeanine Alesch, Laura Bradford, Jonathan Stowers
Assistant Professors – Christine Gonzales, Takashi Ebira

Program Description: The Language and Culture Program teaches beginning skills in several languages as well as culture classes. Classes are designed to help students learn or improve listening, speaking, reading and writing skills, as well as embracing cultural differences and heritage.

ASSOCIATE OF ARTS (AA) LANGUAGE REQUIREMENT
General Education for all Associate of Arts (AA) students includes a Language requirement. The requirement can be fulfilled by any 1020 course (Beginning Language II). These courses are listed as (LN). This requirement may also be fulfilled by taking the second-year courses 2010 and/or 2020 and by qualifying for experiential learning (see advisor or department for procedures).

For students already proficient in a language, a placement test will be required before enrolling in a course. Contact the Humanities, Language and Culture Department for more information.

Native speakers/naturalized citizens are not permitted to enroll in first-year courses in their native language. A placement test will be required.

At the discretion of the Associate Dean, foreign and ESL students may be permitted to substitute experiential learning or prior course work. See department or advisor for appropriate policies.

Career Opportunities: Students should complete the program with intermediate-level language skills. A career in languages will require further study at the four-year degree level and beyond. Mastery of a language takes at least five years of study. The degree prepares students for transfer to 4-year programs in some languages. Following attainment of a 4-year degree there are opportunities for teaching in K-12, international travel, international business, translation services, etc.

Transfer/Articulation Information: Students should also be advised that a Bachelor of Arts (BA) will require four semesters of a language or more and many four-year institutions may require those courses to be taken consecutively. SLCC also offers a wider selection of languages than many transfer institutions; it may not be possible to continue study of a specific language after transfer. Students should check with the institution to which they plan to transfer.

Total Program/Course Fees: $40-60

Estimated Cost for Students: $350-$400

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Students will: • progress through the LANG 1010, 1020, 2010 and 2020 course of our program and demonstrate functional language ability in the four language skills: listening, reading, speaking, and writing;	1 – Substantive Knowledge
• reinforce and further their knowledge of other disciplines through the foreign language. • use the language both within and beyond the school setting.	

2. Students will: • gain knowledge and understanding of the political, historical, social and economic underpinnings of the target-language culture(s), including geography, fine and popular arts, ethnicities, customs, philosophies and values.; • use language to reflect authentic cultural practices and perspectives; • gain deeper awareness of problems and benefits inherent in the differences between US culture and the target language culture(s).	5 – Civic Engagement and/or Working Professionally

LANGUAGE OFFERINGS

AMERICAN SIGN LANGUAGE

COURSE

(SEE ASL PROGRAM)

ARABIC

COURSE		CR	SEM	PREREQUISITE
ARB 1010	Beginning Arabic I	5	A	
ARB 1020	Beg Arabic II (LN)	5	A	ARB 1010
ARB 1300	Beg. Convers/Arabic	1	A	ARB 1010
ARB 1900	Special Studies	1-2	TBA	Instructor approval
ARB 2900	Special Topics	1-3	A	Instructor approval

CHINESE

COURSE		CR	SEM	PREREQUISITE
CHI 1010	Beg Chinese I	5	A	
CHI 1020	Beg Chinese II (LN)	5	A	CHI 1010
CHI 1300	Beg Convers	1	A	CHI 1010
CHI 1900	Special Studies	1-2	TBA	Instructor approval
CHI 2010	Interm Chinese I	4	F	CHI 1020
CHI 2020	Interm Chinese II	4	Sp	CHI 2010
CHI 2300	Conversation	1	F, Sp	CHI 1020
CHI 2900	Special Topics	1-3	A	Instructor approval

FRENCH

COURSE		CR	SEM	PREREQUISITE
FRN 1010	Beg French I	5	A	
FRN 1020	Beg French II (LN)	5	A	FRN 1010
FRN 1300	Beg Convers	1	A	FRN 1010
FRN 1900	Special Studies	1-2	TBA	Instructor approval
FRN 2010	Interm French I	4	F	FRN 1020
FRN 2020	Interm French II	4	Sp	FRN 2010
FRN 2300	Conversation	1	F, Sp	FRN 1020
FRN 2900	Special Topics	1-3	A	Instructor approval

GERMAN

COURSE		CR	SEM	PREREQUISITE
GER 1010	Beg German I	5	A	
GER 1020	Beg German II (LN)	5	A	GER 1010
GER 1300	Beg Convers	1	F, Sp	GER 1010
GER 1900	Special Studies	1-2	TBA	Instructor approval
GER 2010	Inter German I	4	F	GER 1020
GER 2020	Inter German II	4	Sp	GER 2010
GER 2300	Conversation	1	F, Sp	GER 1020
GER 2900	Special Topics	1-3	A	Instructor approval

INTERNATIONAL CULTURE

COURSE		CR	SEM	PREREQUISITE
INTL 2040	Immig Exp Lit/Film (HU,DV)	3	F, Sp	
INTL 2060	Intl Lit and Culture (HU,DV)	3	A	
INTL 2230	Global French Std (HU)	3	A	

INTL 2240	Latin Amer Studies(HU)	3	A	
INTL 2980	Travel Study	3	Sp	Varies by semester and trip taken
INTL 2990	Study Abroad	3	Sp	Varies by semester and trip taken

ITALIAN

COURSE		CR	SEM	PREREQUISITE
ITL 1010	Beg Italian I	5	A	
ITL 1020	Beg Italian II (LN)	5	A	ITL 1010
ITL 1300	Beg Convers	1	Sp	ITL 1010
ITL 1900	Special Studies	1-2	TBA	Instructor approval
ITL 2900	Special Topics	1-3	A	Instructor approval

JAPANESE

COURSE		CR	SEM	PREREQUISITE
JPN 1010	Beg JapaneseI	5	A	none
JPN 1020	Beg Japanese II (LN)	5	A	JPN 1010
JPN 1300	Beg Convers	1	A	JPN 1010
JPN 1900	Special Studies	1-2	TBA	approval
JPN 2010	Interm Japanese I	4	F	JPN 1020
JPN 2020	Interm Japanese II	4	Sp	JPN 2010
JPN 2300	Conversation	1	F, Sp	JPN 1020
JPN 2900	Special Topics	1-3	A	Instructor approval

PORTUGUESE

COURSE		CR	SEM	PREREQUISITE
POR 1010	Beg Portugse I	5	A	
POR 1020	Beg Portugse II (LN)	5	A	POR 1010
POR 1300	Beg Convers	1	A	POR 1010
POR 1900	Special Studies	1-2	TBA	Instructor approval
POR 2010	Interm Portugse I	4	F	POR 1020
POR 2020	Interm Portugse II	4	F	POR 2010
POR 2300	Conversation	1	F, Sp	POR 1020
POR 2900	Special Topics	1-3	A	Instructor approval

RUSSIAN

COURSE		CR	SEM	PREREQUISITE
RUS 1010	Beg Russian I	5	A	
RUS 1020	Beg Russian II (LN)	5	A	RUS 1010
RUS 1300	Beg Convers	1	A	RUS 1010
RUS 1900	Special Studies	1-2	TBA	Instructor approval
RUS 2900	Special Topics	1-3	A	Instructor approval

SPANISH

COURSE		CR	SEM	PREREQUISITE
SPN 1010	Beg Spanish I	5	A	
SPN 1020	Beg Spanish II (LN)	5	A	SPN 1010
SPN 1300	Beg Convers	1	A	SPN 1010
SPN 1900	Special Studies	1-2	TBA	Instructor approval
SPN 2010	Interm Spanish I	4	F	SPN 1020
SPN 2020	Interm Spanish II	4	Sp	SPN 2010
SPN 2300	Conversation	1	F, Sp	SPN 1020
SPN 2900	Special Topics	1-3	A	Instructor approval

TONGAN

COURSE		CR	SEM	PREREQUISITE
TNG 1010	Beginning Tongan I	5	A	
TNG 1020	Beg Tongan II (LN)	5	A	TNG 1010
TNG 1300	Beg. Conver/Tongan	1	A	TNG 1010
TNG 1900	Special Studies	1-2	TBA	Instructor approval
TNG 2900	Special Topics	1-3	A	Instructor approval

Manual Machinist
– CERTIFICATE OF PROFICIENCY[CTE] 450 Clock Hours

Program Division: Division of Applied Technology
Program Location: Taylorsville-Redwood Campus, ATC Building
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/manufacturing/manualmachinist.aspx
Academic Advisor: Lynda Gray, SCC W173B, 801-957-3319

Program Faculty:
Program Coordinator: Joel Clarkson
Instructor: Brent Smith

Program Description: This program prepares students for skilled positions as an entry-level manual machinist. Manual machinists are individuals who are able to set up and operate a variety of machine tools to produce precision parts and instruments. Students will learn through hands-on projects and computer-assisted instruction the basic skills needed to fabricate, modify, or repair mechanical and/or precision instruments. Employment may also include fabricating and modifying parts to make or repair machine tools or maintain industrial machines, applying knowledge of mechanics, shop mathematics, metal properties, layout, and machining procedures.

Instruction is competency-based. This means that students will learn through hands-on practice the skills needed for entry-level employment. Students will begin the program by learning the safety requirements needed on the job. Students will learn to operate lathes, mills, and grinders, all the while learning to assess the quality of the projects they produce.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):
- 51-4041.00 Machinists
- 51-4081.01 Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic

Sample of reported job titles: Machinist, Machine Operator, Machinist Tool and Die, Maintenance Specialist, Set-Up Machinist, Utility Operator, Maintenance Machinist, Production Machinist, Maintenance Technician, MTD (Mold Tooling Designer).

Transfer/Articulation Information:
Students seeking to transfer into the SLCC EDMT degree or certificate program may receive credit for coursework completed in this non-credit training program. Restrictions apply. Please see the department for details.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
- Math 6.0
- Reading: 8.0

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/manufacturing/manualmachinist.aspx

Estimated Time to Completion:
450 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively

	7 – Develop Computer and Information Literacy
Students demonstrate advanced operation of grinding used to machine metals.	1
Students demonstrate basic operation of grinding used to machine metals.	1
Students demonstrate advanced operation of lathes used to machine metals.	1
Students demonstrate basic operation of lathes used to machine metals.	1
Students demonstrate advanced operation of mills used to machine metals.	1
Students demonstrate basic operation of mills used to machine metals.	1

REQUIRED COURSES: (450 Clock Hours)

COURSE		Clock Hours	SEM	PREREQUISITE
KMAT 0010	Machine Shop Introduction	25	A	
KMAT 0050	Blue Print Reading	50	A	
KMAT 0205	Basic Lathe	60	A	
KMAT 0250	Advanced Lathe	60	A	
KMAT 0105	Basic Mill	60	A	
KMAT 0155	Advanced Mill	60	A	
KMAT 0305	Basic Grinding	60	A	
KMAT 0355	Advanced Grinding	60	A	
KWRK 0515	Job-Seeking Skills	15	A	
TOTAL		450		

Advising Notes:

Additional Program Notes:

Welding – CERTIFICATE OF COMPLETION[CTE] 1,155 Clock Hours

Program Division: Division of Applied Technology
Program Location: Redwood, ATC 104
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/manufacturing/welding.aspx
Academic Advisor: Lynda Gray 801-957-3319

Program Faculty:
Program Coordinator & Assistant Professor – Robert Udy

Program Description:
Students enrolled in this program are provided with opportunities to learn entry-level job skills in the welding processes most commonly used in today's industries. Instruction and practice are provided in oxy-acetylene, shielded-metal-arc, gas-metal-arc, flux-cored-arc and gas-tungsten-arc welding. Theory and applications of these processes are also taught, encompassing both ferrous and non-ferrous metals. Safety and safe practices are emphasized throughout the program. Additional instruction is provided in mathematics for welding and blueprint reading. Students will have the opportunity to learn techniques for welder performance qualifications and certification testing. Thermal cutting and gouging techniques using oxy-fuel, plasma-arc and arc-air processes are also covered.

Enrollment is also available for students with specific interests. For example, students may wish to improve their job skills by upgrading their competencies in specific welding processes or application or prepare for AWS, ASME, and API performance certifications. For these types of activities, students may meet with an instructor to determine the number of scheduled hours needed before enrolling.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):
- 51-4121.01 Welders, Production
- 51-4121.02 Welders and Cutters

Per O-net SOC 51-4121: National Wages & Employment TrendsWelders, Cutters, Solderers, and Brazers

Median wages (2011)	$17.27 hourly, $35,920 annual
Employment (2010)	337,000 employees
Projected growth (2010-2020)	Average (10% to 19%)
Projected job openings (2010-2020)	140,700
Top industries (2010)	Manufacturing Construction

Transfer/Articulation Information:
American Welding Society: School Excelling through National skill Standards Education (SENSE). Contact Program Coordinator for details.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
Reading 8.0
Math 8.0
Prospective students should have good eyesight (corrected vision is satisfactory), finger dexterity, good eye-hand coordination, and be in good physical condition (able to lift 50 lbs. minimum).

Estimated Cost for Students:
Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/manufacturing/welding.aspx

Estimated Time to Completion: 1155 Clock Hours

ASLO	Program Objectives/Student Outcomes/Competencies	Program Assessments
1.	1. Students learn skills which allow them to be gainfully employed in industry. Specifically: • Oxy-Acetylene Welding • Shielded Metal Arc • Gas Metal Arc Welding • Basic Blueprint Reading • Flux Cored Arc–Self- and Gas-shielded Welding • Gas Tungsten Arc (Mild Steel, Stainless Steel, & Aluminum)	1. Students will demonstrate competency and readiness for employment.
1.	2. Students learn skills which help them to pass welder performance qualification tests.	2. Students demonstrate that they are prepared for AWS, ASME, API welder performance qualifications.

REQUIRED COURSES: (1,155 CLOCK HOURS)

COURSE		Clock Hours	SEM	PREREQUISITE
KWLD 0115	Intro to Welding & Lab Safety	10	A	SAT Entry skills (TABE test, eighth grade math & reading)
KWLD 0126	Oxy-Acetylene Welding	120	A	KWLD 0115, Intro to Welding & Lab Safety
KWLD 0136	Basic Shielded Metal Arc Welding	190	A	KWLD 0126, Oxy-Acetylene Welding
KWLD 0235	Advanced Shielded Metal Arc Welding	150	A	KWLD 0136, Basic Shielded Metal Arc Welding
KWLD 0145	Gas Metal Arc Welding (GMAW)	160	A	KWLD 0235, Advanced Shielded Metal Arc Welding
KWLD 0165	Blueprint Reading for Welders	100	A	SAT Entry skills (TABE test, eighth grade math & reading)
KWLD 0170	Flux Cored Arc Welding (FCAW)	170	A	KWLD 0145, Gas Metal Arc Welding (GMAW)
KWLD 0180	Gas Metal Arc Welding (GTAW)	140	A	KWLD 0170, Flux Cored Arc Welding (FCAW)
KWLD 0190	Math for Welders	100	A	SAT Entry skills (TABE test, eighth grade math & reading)
KWRK 0515	Job-Seeking Skills	15	A	None

Advising Notes:

Additional Program Notes:

MARKETING MANAGEMENT – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 67 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957-4470
www.slcc.edu/marketingmanagement
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – Rolayne Day, Curtis W. Youngman

Program Description: Marketing is a major function of business with a widely diverse field of job opportunities, including retailing, direct sales, advertising, physical distribution, logistics and purchasing. Information management, customer service and public relations are also important aspects of the field. Marketing continues to increase in importance in the world of commerce and industry and many managers are selected from successful marketing personnel. Students cultivate fresh viewpoints and leadership skills through an open exchange of ideas and experiences while participating in team activities and problem-solving situations.

General Education and elective courses provide training in effective oral and written communication and human relations skills. BUS 1050 and MKTG 1050 are taught using group and team activities in the learning process to develop the students' interactive skills to build human values and ethics.

Students who are interested in pursuing courses leading to a Bachelor's degree in Marketing should follow the courses listed in the Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

Career Opportunities: Virtually every type of business or industry utilizes marketing professionals in some way. Job options for marketing degree holders include careers in advertising, brand management, market research, and public relations. Popular job titles include: Account Executive Marketing Manager, Market Research Analyst, Sales Manager, Advertising and Promotions Manager, Customer Service Representative, or Public Relations Specialist.

Transfer/Articulation Information: The SLCC Marketing Management Associate of Applied Science degree is a terminal 2-year degree program. However, several courses are transferrable to other institutions and apply to Marketing Bachelor's degree programs. An articulation agreement exists between Salt Lake Community College AAS in Marketing Management and Weber State University BS in Technical Sales. Students will be required to complete the remaining General Education Requirements and upper-division major course work to complete the BS degree.

Total Program/Course Fees: Some course may contain lab fees

Estimated Cost for Students: The estimated cost for textbooks per semester is $300.

Estimated Time to Completion: If students follow the sample schedule, time to completion is four semesters.

Specialized Accreditation: The Marketing Management associate degree program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree-granting business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will acquire substantive knowledge when they: a. Synthesize in writing and orally an understanding of marketing theory and practical application of marketing techniques b. Create and deliver effective visual and oral marketing presentations c. Perform Data analyses: • Analyze demographic and psychographic data • Conduct and analyze primary and secondary research • Develop survey tools and analyze resulting quantitative data • Set up focus groups and analyze resulting quantitative data	1 – Substantive Knowledge
The students will communicate effectively when they:	2 – Communicate Effectively

a. Work in teams b. While presenting analyses on case studies and business scenarios	
The students will develop quantitative literacy when they: a. Choose and perform appropriate analyses for quantitative and qualitative data	3 – Develop Quantitative Literacy
The students will think critically when they: a. Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
The students will engage in Civic engagement and/or work professionally when they: a. Understand the ethical considerations that are inherently involved in business b. Engaged in principled dialogue on civic issues involving local businesses	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score

OR

Any approved QS course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communication	3	A	ENGL 1010 w/C grade or better

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MKTG 1010	Customer Service	2	A	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

NOTE: BUS 1050 and MKTG 1050 fulfill major course requirements and cannot be taken as General Education courses.

REQUIRED COURSES: (47 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Fin Acct	3	A	
BUS 1050	Foundations of Bus	3	A	
ECON 2010	Microeconomics	3	A	
MGT 1020	Distribution Systems	3	F/Sp	
MGT 2050	Legal Env of Bus	3	A	Recommended: BUS 1050
MKTG 1030	Intro Marketing	3	A	
MKTG 1050	Consumerism (ID)	3	A	
MKTG 1070	Promotion	3	F	
MKTG 1300	Bus Presentations	2	F	
MKTG 1480	Sales	3	Sp	
MKTG 1960	Professionalism in Bus	3	A	
MKTG 2100	Marketing Info Mgmt	3	Sp	MKTG 1030

MKTG 2400	Intnatl Marketing	3	F	MKTG 1030 and ECON 2010
MKTG 2350	Retail Mgmt	3	Sp	MKTG 1030
MKTG 2500	Principles Marketing	3	Sp	MKTG 1070, 2350, 2100
MKTG 2810	E-Cmce Design/Impl	3	Sp	MKTG 1030, 1480 (either can be taken concurrently)

ELECTIVE COURSES: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
MGT 2070	Human Res Mgmt	3	F	
MGT 2600	Intl Trade/Bus	3	Sp	ECON 2020
*MKTG 1900	Special Projects (DECA)	2	F/Sp	
*MKTG 1910	Event Marketing	3	F	
*MKTG 2000	Marketing CO-OP Educ	1-3	A	Sophomore status and instructor approval
*MKTG 2990	Current Topics	1-3	TBA	Variable, contact department

*Can be taken as an elective if not taken as a required course.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	BUS 2200	3
MGT 1020	3	FIN 1380	3
MKTG 1030	3	MKTG 1480	3
MKTG 1070	3	MKTG 2100	3
MKTG 1300	2	MKTG 2350	3
BUS 1050	3	MKTG 1960	3
Total	**17**	**Total**	**18**
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 2010	3	MKTG 1010	2
ECON 2010	3	MKTG 1050	3
MGT 2050	3	MKTG 2500	3
MKTG ELEC	3	MKTG 2810	3
MKTG 2400	3	DISTRIBUTION (2)	6
MKTG ELEC	3		
Total	**18**	**Total**	**17**

Advising Notes: Marketing majors must complete each of the required marketing classes with a 2.4 (C+) GPA or higher. Students receiving lower than 2.4 in any marketing course cannot proceed without approval from the instructor.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who wish to take the CIS 1020 Computer Essentials challenge exam are advised to review the information at www.slcc.edu/csis. An 80% or higher is required on each section of the test. Once the exam is passed, a P is posted to the transcript and credit is awarded.

Cooperative Education is the College's program for recognizing and rewarding new learning associated with study-related employment in a business, industrial or government work environment. Credit earned from MKTG 2000 is applied toward graduation requirements as a marketing elective credit. Contact the Cooperative Education Department at (801) 957-4014. The Department strongly recommends that students enhance their employment opportunities through Cooperative Education as soon as skills permit, to complement the certificate or degree.

MARKETING MANAGEMENT – CERTIFICATE OF COMPLETION[CTE] 37 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Program Information, (801) 957- 4470
www.slcc.edu/marketingmanagement
Academic Advisor, BB 132A, (801) 957-4323

Program Faculty:
Professors – Rolayne Day, Curtis W. Youngman

Program Description: Marketing is a major function of business with a widely diverse field of job opportunities, including retailing, direct sales, advertising, physical distribution, logistics and purchasing. Information management, customer service and public relations are also important aspects of the field. Marketing continues to increase in importance in the world of commerce and industry and many managers are selected from successful marketing personnel. Students cultivate fresh viewpoints and leadership skills through an open exchange of ideas and experiences while participating in team activities and problem-solving situations.

This program is a one-year course of study surveying essentials of marketing management to include the study of business theory and principles which are important in both a national and global perspective.

Students who are interested in pursuing courses leading to a Bachelor's Degree in Marketing Management areas should follow the courses listed in Business Associate of Science or Business Associate of Arts degrees listed elsewhere in this catalog.

Career Opportunities: Marketing Manager, Market Research Analyst, Sales Manager, Advertising and Promotions Manager, Customer Service Representative

Total Program/Course Fees: Some courses may have lab fees

Estimated Cost for Students: The estimated cost for textbooks per semester is $300.

Estimated Time to Completion: If students follow the proposed sample schedule outline, time to completion is 2 semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Synthesize in writing and orally an understanding of marketing theory and practical application of marketing techniques. Create and deliver effective visual and oral marketing presentations.	1 – Substantive Knowledge
Communicate effectively by working in teams and presenting analyses on case studies and business scenarios	2 – Communicate Effectively
Solve marketing research problems by choosing and applying appropriate mathematical techniques	3 – Develop Quantitative Literacy
Think critically by extracting relevant data from information resources, processing it appropriately, and drawing reasonable conclusions. By demonstrating ability to provide solutions to marketing scenarios.	4 – Think Critically
Be civically engaged by participating in educational and/or service learning projects.	5 – Civic Engagement and/or Working Professionally

REQUIRED COURSES: (37 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 2010	Survey Fin Acct	3	A	
BUS 1050	Foundations of Bus	3	A	
BUS 2200	Bus Communications	3	A	ENG 1010 w/C grade or better
MKTG 1010	Customer Service	2	A	
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
FIN 1380	Financial Math	3	A	MATH 0990 or appropriate Accuplacer score
*MGT 1020	Distribution Systems	3	F/Sp	
*MKTG 1030	Intro Marketing	3	A	
*MKTG 1050	Consumerism (ID)	3	A	
*MKTG 1070	Promotion	3	F	
*MKTG 1300	Bus Presentations	2	F	
*MKTG 1480	Sales	3	Sp	
*MKTG 2350	Retail Mgmt	3	Sp	MKTG 1030

*Must be competed with C+ or higher.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
BUS 1050	3	ACCT 2010	3
MKTG 1010	2	BUS 2200	3
ENGL 1010	3	FIN 1380	3
MGT 1020	3	MKTG 1050	3
MKTG 1030	3	MKTG 1480	3
MKTG 1070	3	MKTG 2350	3
MKTG 1300	2		
Total	**19**	**Total**	**18**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. The classes designed to assist students in reaching the skill level necessary to enter the certificate and degree programs are computer applications, MATH 0990. Any class in the preparatory skills may be waived for students who can demonstrate equivalent skills.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

ADVANCED MARKETING – Certificate of Proficiency [CTE] (CP) 16 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957- 4073
Program Information, (801) 957-4470
http://www.slcc.edu/businessmanagement/
Academic Advisor, Taylorsville Redwood Campus BB 132A, (801) 957-4323

Program Faculty:
Professors: Rolayne Day, Curtis Youngman

Program Description: The Certificate of Proficiency in Advanced Marketing provides the specialized skills needed for students to enter a specific area of the Marketing field or advance more rapidly into a Marketing area.

Career Opportunities: There are many options to careers in marketing. Marketing can be defined as being the intermediary function between product development and sales. The great thing about marketing is it is a function that is needed in every company in every industry, so career potential is unlimited. There are career tracks in marketing that you can follow. You can find many opportunities in marketing in the following categories:

- Market Research
- Brand Management
- Advertising
- Promotions
- Public Relations

The marketing field covers a broad range of career paths, from the creative to the analytical:

- At the entry level, you find media buyers responsible for purchasing advertising time and materials.
- At smaller companies, marketing specialists handle that task, and they also provide promotional copy and package design and help with marketing strategy.
- Public relations assistants help relate a company's goals to the public, through press releases, research, press coordination and events.

These entry-level marketing career paths may lead to a job in product or brand management, in which you would be responsible for the success of a brand in a competitive marketplace. Or you may decide to go into market research, the information-gathering arm of marketing. Experienced marketing professionals often start their own businesses or go into senior positions at companies or marketing firms. The marketing field is demanding and competitive, but offers great rewards for those with talent and the drive to excel.

The Certificate of Proficiency in Advanced Marketing provides complete competence in an entry-level position in Marketing Management. The Certificate of Proficiency in Advanced Marketing is designed to build upon or "stack" onto the Certificate of Proficiency in Marketing Essentials. This Certificates of Proficiency may be used as stackable credentials for the Marketing Management AAS or other Business AS or AAS degrees.

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuitionfees.asp, the estimated cost of books is $300 per semester.

Estimated Time to Completion: Approximately one semester.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. The certificate is financial aid eligible, if you plan to stack it with other certificates, which will lead to a Certificate of Completion or AAS degree. Please check with the Financial Aid Office to determine if your classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.1 Synthesize in writing and orally an understanding of marketing theory and practical application of marketing techniques. 1.2 Create and deliver effective visual and oral marketing presentations. 1.3 Perform data analyses: • Analyze demographic and psychographic data. • Conduct and analyze primary and secondary research. • Develop survey tools and analyze resulting quantitative data. Set up focus groups and analyze resulting qualitative data.	1 – Acquire Substantive Knowledge
4.1 Demonstrate an ability to provide solutions to marketing scenarios.	4 – Critical Thinking
6.1 Communicate effectively while working in teams.	6 - Work with others Professionally & Constructively
7.1 Extract relevant data from information resources, process it appropriately, and draw reasonable conclusions.	7 - Develop Computer & Information Literacy

REQUIRED COURSES: (## CREDITS)

COURSE		CR	SEM	PREREQUISITE
MKTG 2100	Marketing Info Mgmt	3	Sp	MKTG 1030
MKTG 2350	Retail Mgmt	3	F/Sp	MKTG 1030
MKTG 2400	International Mktg	3	F	MKTG 1030, ECON 2020
MKTG 2500	Principles of Mktg	3	Sp	MKTG 1070, MKTG 2350, MKTG 2100
MKTG 2810	Ecommerce Design/Impl	3	Sp	MKTG 1030, MKTG 1480

Choose (1-3) credits from the following:

MKTG 1900	Special Projects/DECA	2	F/Sp	None
MKTG 1910	Event Mktg	3	F	None
MKTG 2000	Cooperative Ed	1-3	A	Sophomore status & Instructor approval
MKTG 2990	Special Topics	1-3	A	Instructor approval

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
MKTG 2100	3	MKTG 2500	3
MKTG 2350	3	MKTG 2810	3
MKTG 2400	3	MKTG choice	1-3
Total	**9**	**Total**	**7-9**

Advising Notes: It is highly recommended that each student meet with an advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4323.

MARKETING ESSENTIALS – Certificate of Proficiency [CTE] (CP) 16 credits minimum

Management and Marketing Division
Taylorsville Redwood Campus, BB 109
General Information, (801) 957- 4073
Program Information, (801) 957- 4470
http://www.slcc.edu/businessmanagement/
Academic Advisor, Taylorsville Redwood Campus BB 132A, (801) 957-4323

Program Faculty:
Professors: Rolayne Day, Curtis Youngman

Program Description: The Certificate of Proficiency in Marketing Essentials provides the foundational study of Marketing upon which students can build their skills in the Marketing career field.

Career Opportunities: There are many options to careers in marketing. Marketing can be defined as being the intermediary function between product development and sales. The great thing about marketing is it is a function that is needed in every company in every industry, so career potential is unlimited. There are career tracks in marketing that you can follow. You can find many opportunities in marketing in the following categories:

- Market Research
- Brand Management
- Advertising
- Promotions
- Public Relations

The marketing field covers a broad range of career paths, from the creative to the analytical:

- At the entry level, you find media buyers responsible for purchasing advertising time and materials.
- At smaller companies, marketing specialists handle that task, and they also provide promotional copy and package design and help with marketing strategy.
- Public relations assistants help relate a company's goals to the public, through press releases, research, press coordination and events.

These entry-level marketing career paths may lead to a job in product or brand management, in which you would be responsible for the success of a brand in a competitive marketplace. Or you may decide to go into market research, the information-gathering arm of marketing. Experienced marketing professionals often start their own businesses or go into senior positions at companies or marketing firms. The marketing field is demanding and competitive, but offers great rewards for those with talent and the drive to excel.

For complete competence in Marketing Management, these courses should be complemented with other career specific, skill building courses. This Certificate of Proficiency may be used as a stackable credential for other Business AS or AAS degrees.

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuitionfees.asp, the estimated cost of books is $300 per semester.

Estimated Time to Completion: Approximately one semester.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. The certificate is financial aid eligible, if you plan to stack it with other certificates, which will lead to a Certificate of Completion or AAS degree. Please check with the Financial Aid Office to determine if your classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Demonstrate an understanding of the promotional mix through the development of a promotional/advertising campaign.	1 – Acquire Substantive Knowledge
Develop an understanding of the importance of sales in marketing through simulated sales presentations.	1 – Acquire Substantive Knowledge
Use business data and information for decision making on a level appropriate for a first-year student.	4 – Think Critically and Creatively
Create and deliver effective presentations that include visual and oral communication methods to peers.	2- Communicate Effectively

REQUIRED COURSES: 16 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MGT 1020	Distribution Systems	3	F/Sp	None
MKTG 1010	Customer Service	2	A	None
MKTG 1050	Consumerism	3	A	None
MKTG 1070	Promotions	3	F	None
MKTG 1300	Business Presentations	2	F	None
MKTG 1480	Sales	3	Sp	None

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
MGT 1020	3	MKTG 1070	3
MKTG 1010	2	MKTG 1300	2
MKTG 1050	3	MKTG 1480	3
Total	**8**	**Total**	**8**

Advising Notes: It is highly recommended that each student meet with an advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4323.

MATHEMATICS – ASSOCIATE OF SCIENCE (AS) — 63 credits minimum

Mathematics Department
Taylorsville Redwood Campus, SI 220
General Information, (801) 957-4073
Program Information, (801) 957-4267
www.slcc.edu/math
Academic Advising, SI 209, (801) 957-4858

Program Faculty:
Professor - John Close, Kathy Eppler, Don Merrill, Celestina Punzalan
Associate Professor - Joseph Gallegos, Mark Glines, Shawna Haider, Carla Kulinsky, Rachel Lawyer, Dale Nelson, Doug Richards, Zeph Smith, Cindy Soderstrom, Ruth Trygstad, Candace Wignall, James Woodall
Assistant Professors - Kyle Costello, Brenda Gardner, Alia Maw, Ron McKay, Cesar Melo, Robert Morelli, Suzanne Mozdy, Laurie Paxton, Brenda Santistevan, Shane Tang,
Instructor – Spencer Bartholomew, Charles Hemming, J Terry Kidd, Michael Oremus, Todd Riggs
Lecturer – Kristin Cartwright, John Schweitzer, Sadie Thomas

Program Description: An Associate of Science degree can be earned through the study of Mathematics. It requires a minimum of 63 credit hours of coursework, including 22 hours of mathematics courses and 8 hours of physics courses. All classes are transferable to other schools in the state system of higher education and most other universities and colleges. These courses will prepare a student for completion of a mathematics or mathematics education degree at a four year institution. Students in this program also complete General Education requirements.

Transfer/Articulation Information: Requirements at four-year colleges and universities are subject to change; ongoing planning is essential. Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements:
The following courses must be completed with a C grade or better:

COURSE		CR	SEM	PREREQUISITE
MATH 1060	Trigonometry	3	A	RDG 0990; within last year MATH 1050 w/C grade within the last year or better or instructor permission
OR				
MATH 1080	Pre-calculus	5	A	Appropriate Accuplacer score within the last year or department approval

It is the student's responsibility to examine each course description for details of prerequisite classes. ***Those prerequisites must be satisfied within the previous one year before the designated class may be taken.***

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1.a. Acquire substantive knowledge of mathematical concepts in calculus, linear algebra, differential equations and calculus based physics. b. Demonstrate proficiency in the use of a Computer Algebra System for problem-solving and application of mathematical principles. c. Preparation for further study in mathematics or a related discipline at a four-year college or university.	1 – Substantive Knowledge
2.a. Organize, present and explain, both orally and in writing, solutions to mathematics problems. b. Communicate well in a group.	2 – Communicate Effectively
3.a. Obtain and interpret information represented by solutions and graphs. b. Use appropriate mathematical techniques and concepts to analyze data. c. Model and predict outcomes for physical situations with mathematical equations.	3 – Develop Quantitative Literacy
4.a. Demonstrate effective problem solving.	4 – Think Critically

b. Critically analyze mathematical problems and solutions for validity/credibility. c. Make connections across disciplines with mathematical models from physics, engineering, economics, medicine etc.	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
	or			
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

NOTE: Physical Science General Education component is satisfied through pre-major coursework.

REQUIRED COURSES: (26-27 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MATH 1220	Calculus II	4	A	Within last year, MATH 1210 w/C grade or better
MATH 2210	Multivariate Calculus	3	A	Within last year, MATH 1220 w/C grade or better
MATH 2270	Linear Algebra	4	F	Within last year, MATH 1220 w/C grade or better
MATH 2280	Differential Equations	4	Sp	Within last year, MATH 2270 w/C grade or better
PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
MATH 2040	Stats for Applied Science	4	F, Sp	Within last year, MATH 1050 w/C grade or better or appropriate Accuplacer score
OR				
MATH 2200	Discrete Math	3	F, Sp	Within last year, MATH 1220 w/C grade or better or instructor permission

ELECTIVE COURSES: (CHOOSE 5 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220

CHEM 1210	Gen Chem I	4	F,Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
ENGR 1040	Engineering Computing	3	A	MATH 1060 or MATH 1080 (either may be taken concurrently)
CSIS 1400	Fund Programming	4	A	Recommended: CSIS 1030
CSIS 1410	Object-Orient Prog	4	A	Recommended: CSIS 1400

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
MATH 1210	4	MATH 1220	4
ENGL 1010	3	ENGL 2010	3
AI	3	STUDENT CHOICE	3
DISTRIBUTION	3	DISTRIBUTION (2)	6
ELEC	3		
Total	**16**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
MATH 2210	3	MATH 2280	4
MATH 2270	4	PHYS 2220	4
PHYS 2210	4	MATH 2200	3
ELEC	2	LW	1
DISTRIBUTION	3	DISTRIBUTION	3
Total	**16**	**Total**	**15**

Advising Notes: Cooperative Education is SLCC's strategy for recognizing and rewarding new learning associated with study-related employment in a business, industrial or government work environment. Credit earned for MATH 2000 is applied toward graduation requirements as a mathematics elective credit.

The semesters in which courses are taught are listed in course descriptions. Students should check the semester class schedule for day/evening/weekend availability and modifications caused by varying enrollment.

DEPARTMENTAL OFFERINGS:

COURSE		CR	SEM	PREREQUISITE
MATH 0001	College Prep Math 1	4	A	EDU 1020 w/C grade or better (may be taken concurrently)
MATH 0002	College Prep Math 2	4	A	MATH 0001 and EDU 1020
MATH 0003	College Prep Math 3	4	A	MATH 0002 and EDU 1020
MATH 0900	College Arithmetic	3	A	
MATH 0915	Fractions Workshop	1	A	
MATH 0920	Developmental Math	6	A	
MATH 0925	Pre-Algebra Workshop	1	A	
MATH 0950	Pre-Algebra	3	A	Within the last year, MATH 0900 w/B grade or better or appropriate Accuplacer score
MATH 0955	Pre-Algebra Workshop	1	A	
MATH 0990	Elementary Algebra	4	A	Within last year, MATH 0920 or MATH 0950 w/C grade or better or appropriate Accuplacer score
MATH 0995	Elementary Algebra Wkshp	1	A	Coreq: MATH 0990
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within last year MATH 0990 w/C grade or better or appropriate Accuplacer score
MATH 1015	Intermediate Algebra Workshop	1	A	Recommended coreq: MATH 1010
MATH 1020	Math for Health	3	A	RDG 0900 and MATH 0920 or MATH 0950 w/C grade or better or appropriate Accuplacer score
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1055	College Algebra Workshop	1	A	Recommended coreq: MATH 1050

MATH 1060	Trigonometry	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1080	Precalculus	5	A	Appropriate Accuplacer score within the last year
MATH 1090	College Algebra Business	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1100	Calculus Techniques	3	A	Math 1050 or Math 1080 or Math 1090 with grade of "C" within the past year.
MATH 1210	Calculus I	4	A	Within last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score
MATH 1220	Calculus II	4	A	Within last year, MATH 1210 w/C grade or better
MATH 2000	Math CO-OP	2-4	A	Instructor approval
MATH 2010	Math Elem. Teacher I	3	F	Within last year, MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 2020	Math Elem. Teacher II	3	Sp	Within last year, MATH 2010 w/C grade or better
MATH 2040	Stats for Applied Science	4	F, Sp	Within last year, MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 2200	Discrete Math	3	F, Sp	Within last year, MATH 1220 w/C grade or better or instructor permission
MATH 2210	Multivariate Calculus	3	A	Within last year, MATH 1220 w/C grade or better
MATH 2250	Differential Equations	4	A	Within last year, MATH 1220 w/C grade or better. Optional coreq: MATH 2210 required departmental approval
MATH 2270	Linear Algebra	4	F, Sp	Within last year, MATH 1220 w/C grade or better
MATH 2280	Differential Equations	4	F, Sp	Within last year, MATH 2270 w/C grade or better

GRAPHIC DESIGNER– CERTIFICATE OF PROFICENCY [CTE] 645 Clock Hours

Program Division: Division of Applied Technology
Program Location: South City Campus, SCCM 2-133
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/media-and-web-design.aspx
Academic Advisor: Veronica Medina, 1-061J-G, 801-957- 3199

Program Faculty:
Instructors – Kelly J. Albers; Monica Ingoldsby

Program Description:
In the non-credit Graphic Designer program students learn to communicate with employees, customers, and other businesses through printed material, websites, electronic presentations, videos and other related media. This program is designed to provide the student with a thorough understanding of the skills and visual literacy needed for employment in the graphic design media industry. The courses will cover visual language, composition, typography, photography, color, and graphic communication. The Graphic Designer program provides comprehensive training in software applications and skills to prepare students for employment requiring design responsibilities in a variety of organizational settings.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 27-1024.00 Graphic Designers

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 8.0

Documented competency or instructor approval of the following:

- Beginning Keyboarding (KAOS 0110) or 20 WPM
- Computer Concepts (KAOS 0170)

Total Program/Course Fees:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/mediaandwebdesign/graphicdesign.aspx

Estimated Time to Completion:
645 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students demonstrate mastery in industry aligned knowledge and skills necessary for entry-level employment.	1,4,5,6,7
Students demonstrate mastery of job seeking skills	1,4
Students will demonstrate mastery in communications of their skills and knowledge to employers.	1,2,4
Students will demonstrate mastery of visual literacy necessary to communicate, develop, and design needed for employment in the graphic design field.	1,2,5,7

REQUIRED COURSES: (645 CLOCK HOURS)				
COURSE		CLOCK HOURS	SEM	PREREQUISITE
KMDT 0020	Graphic Design Applications	90	A	
KMDT 0031	Design Principles	90	A	
KMDT 0230	Image Editing	90	A	
KMDT 0040	Computer Illustration	90	A	
KMDT 0320	Desktop Publishing Applications	90	A	
KMDT 0010	Media Design Introduction	90	A	
KMDT 0171	Electronic Portfolio	90	A	
KWRK 0515	Job-Seeking Skills	15	A	

MEDIA DESIGN TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE] 1,275 Clock Hours

Program Division: Division of Applied Technology
Program Location: South City Campus, SCCM 2-133
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/media-and-web-design.aspx
Academic Advisor: Veronica Medina, 1-061J-G, Phone: 801-957-3199

Program Faculty:
Instructors – Kelly J. Albers; Monica Ingoldsby

Program Description:
The Media Design Technology program prepares students for entry level employment in the Media Technology field by demonstrating theory, communication, and fundamental skills necessary to become employed in the Media industry, and mastery of job-seeking skills. The Media Design Technology program instructs students on how businesses communicate with employees, customers, and other businesses though printed material, websites, electronic presentations, videos, and other related media. Students will learn how to use leading computer applications to prepare these messages. The program also teaches the theory and fundamentals of developing effective communication pieces in each media format. Students can choose to focus on one or more disciplines or learn skills in several different multimedia fields in preparation for employment.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 27-1014.00 Multi-Media Artists and Animators

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 8.0

Documented competency or instructor approval of the following:

- Beginning Keyboarding (KAOS 0110) or 20 WPM
- Computer Concepts (KAOS 0170)

Estimated Cost For Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/mediaandwebdesign/mediadesign.aspx

Estimated Time to Completion:
1,275 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students demonstrate mastery in industry aligned knowledge and skills in various technologies and disciplines of media technology necessary for entry-level employment	1,4,5,6,7
Students demonstrate mastery of job seeking skills	1,2,4

REQUIRED COURSES: (585 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KMDT 0010	Media Design Introduction	90	A	

KMDT 0020	Graphic Design Applications	90	A
KMDT 0031	Design Principles	90	A
KMDT 0311	Image Editing	90	A
KMDT 0040	Computer Illustration	90	A
KMDT 0111	Web Design Fundamentals	120	A
KWRK 0515	Job-Seeking Skills	15	A

Elective COURSES: (690 CLOCK HOURS)

				PREREQUISITE
KMDT 0101	Design & Internet Tech	90	A	
KMDT 0120	Web Design Authoring	120	A	
KMDT 0140	Web Design Animation	90	A	
KMDT 0171	Electronic Portfolio	90	A	
KMDT 0205	Interactive Media Scripting	90	A	
KMDT 0210	Web Developer Final Project	90	A	
KMDT 0220	Web Programming Intro	90	A	
KMDT 0230	Web Applications Scripting I	120	A	
KMDT 0240	Web Applications Scripting II	120	A	
KMDT 0130	Web Authoring Applications	90	A	
KMDT 0320	Desktop Publishing Apps	90	A	
KMDT 0520	Video Production I	90	A	

Total Program Hours: 1,275 Clock Hours

Additional Program Notes:

WEB PROGRAMMER – CERTIFICATE OF PROFICIENCY[CTE] 765 Clock Hours

Program Division: Division of Applied Technology
Program Location: South City Campus, SCCM 2-133
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/media-and-web-design.aspx
Academic Advisor: Veronica Medina, 1-061J-G, 801-957-3199

Program Faculty:
Instructors – Kelly J. Albers; Monica Ingoldsby

Program Description:
This program covers basic and advanced scripting and programming skills needed to create web sites and applications that are dynamic, data-driven, and interactive. The courses include techniques to build web sites that ensure functionality, security, and ease of use. Instruction includes debugging, validating, cookies, sessions, server and client-side issues. The Web Programmer certificate is designed to provide the student with comprehensive training in scripting, software applications, and skills to prepare the student for employment doing web-programming tasks in a variety of organizational settings.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 15-1099.04 Web Developers
- 15-1021.00 Computer Programmers

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 8.0

Documented competency or instructor approval of the following:

- Beginning Keyboarding (KAOS 0110) or 20 WPM
- Computer Concepts (KAOS 0170)

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/mediaandwebdesign/webprogrammer.aspx

Estimated Time to Completion:
765 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students demonstrate mastery in industry-aligned knowledge and skills of comprehensive scripting to develop interactive web sites necessary for entry-level employment in the web programming field.	1,2,3,4,6,7
Students demonstrate mastery of job seeking skills	1,2,4
Students will demonstrate mastery of and understanding of the	1,2,5,6,7

elements of interactive development with clients and interaction.	

REQUIRED COURSES: (765 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KMDT 0020	Graphic Design Applications	90	A	
KMDT 0111	Web Design Fundamentals	120	A	
KMDT 0120	Web Design Authoring	120	A	
KMDT 0230	Web Applications Scripting I	120	A	
KMDT 0240	Web Applications Scripting II	120	A	
KMDT 0205	Interactive Media Scripting	90	A	
KWRK 0515	Job-Seeking Skills	15	A	

Additional Program Notes:

WEB SITE DESIGNER – CERTIFICATE OF PROFICENCY [CTE] 675 Clock Hours

Program Division: Division of Applied Technology
Program Location: South City Campus, SCCM 2-133
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/media-and-web-design.aspx
Academic Advisor: Veronica Medina, 1-061J-G, Phone: 801-957-3199

Program Faculty:
Instructors – Kelly J. Albers; Monica Ingoldsby

Program Description:
The Web Site Designer program is designed to provide the student with the necessary skills to design, create, and publish dynamic interactive web sites using the latest industry standard web design authoring software. The courses in this program will provide the student with skills to produce professional user-friendly web sites that incorporate efficiency of design, and ease of maintenance. The Web Site Designer program also provides comprehensive training in software applications and skills to prepare the student for employment doing web design tasks in a variety of organizational settings.

Career Opportunities:
For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 15-1099.04 Web Developers

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading: 8.0
- Math: 8.0

Documented competency or instructor approval of the following:

- Beginning Keyboarding (KAOS 0110) or 20 WPM
- Computer Concepts (KAOS 0170)

Estimated Cost For Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/mediaandwebdesign/websitedesigner.aspx

Estimated Time to Completion:
675 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students demonstrate mastery in industry aligned knowledge and skills.	1,4,5,6,7
Students demonstrate mastery of job seeking skills	1,2,4
Students will demonstrate mastery in communications of their skills and knowledge to employers.	1,4
Students will demonstrate mastery of comprehensive software applications.	1,4,6,7

REQUIRED COURSES: (675 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KMDT 0020	Graphic Design Applications	90	A	
KMDT 0031	Design Principles	90	A	
KMDT 0311	Image Editing	90	A	
KMDT 0130	Web Authoring Applications	90	A	
KMDT 0320	Desktop Publishing Applications	90	A	
KMDT 0111	Web Design Fundamentals	120	A	
KMDT 0171	Electronic Portfolio	90	A	
KWRK 0515	Job-Seeking Skills	15	A	

Total Program Clock Hours: 675

Medical Assistant – CERTIFICATE OF COMPLETION[CTE]

New requirements effective for admission Fall 2014 **42 credits minimum**

Program Division: Allied Health
Program Location: Jordan Campus, JHS Building, Room 059
General Information: 801-957-7522
Program Information: 801-957-6200
Program Website: http://www.slcc.edu/ma/index.aspx
Academic Advisor: Jordan Campus, JHS 047, 801-957-6215

Program Faculty:
Assistant Professors – Diana L. Carroll, Jana Tucker
Instructors – Diane Robinson

Program Description: Medical assistants are trained primarily to work in doctors' offices, clinics or health maintenance organizations. As members of an allied health care profession, the medical assistant's role is to assist with care and treatment of patients through administrative and clinical procedures.

Students must demonstrate proficiency by passing all courses and competencies required in the program, including successful completion of CPR and first aid certification, before placement in a practicum site and graduation from the program.

Students complete a 200-hour unpaid practicum at a primary health care facility. Students must return all practicum evaluations and hours (records) properly signed by practicum supervisor and student to the practicum coordinator of the Allied Health Medical Assistant Program. Only upon successful completion of the program and practicum with a C (74%) or better and receipt of all practicum evaluations will the student receive the Certificate of Certification.

Career Opportunities: Medical Assistant Program graduates possess entry-level skills in all administrative and clinical practices. Students also receive extensive training in advanced competencies of the multi-skilled practitioner. As a result, graduates are of immediate value to the physician/employer. Emphasis is placed on development and understanding of personal and professional relationships.

Transfer/Articulation Information: None

Program Entry Requirements:

ADMISSION PROCESS
1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
    SLCC Office of the Registrar and Academic Records
    4600 South Redwood Road
    P.O Box 30808
    Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at : http://www.slcc.edu/transcriptevaluation/. This process may take 4-6 weeks and must be completed before a student's application will be considered.
5. Completed Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC (required before you are able to register for classes that have MATH and RDG/WRTG courses as prerequisites). See: www.slcc.edu/testing
6. Complete Program Prerequisites with a grade C or better:
    ENGL 1010 –Introduction to Writing*
    MA 1420 – Clinical Pathology I
    MA 1100 – Medical Terminology
    MATH 1010 – Intermediate Algebra*
    PSY 1100 – Human Growth and Development

*ENGL 1010, Intro. to Writing: C grade or better OR AP English Credit (must be listed on SLCC transcript), or CLEP English (must be listed on SLCC transcript).
*MATH 1010, Intermediate Algebra: C grade or better OR placement into MATH 1050 within the past year: Accuplacer college level math score of 43, or ACT score of 23.

PROGRAM SELECTIVE ADMISSION'S APPLICATION REQUIREMENTS 2014

1. Complete online application.
2. Submit Proof of Immunizations to Health Sciences Admissions Office.
3. Complete Background check through SLCC's authorized vendor; provide confirmation number on application. In addition, *it will be the responsibility of the student to contact the licensing board and seek advice regarding eligibility for licensure and requirements needed to progress in this profession if the criminal background check discloses issues of concern.*

NOTE: See program website for detailed information: http://www.slcc.edu/medicalassistant/

Total Program/Course Fees: See www.slcc.edu/medicalassistant/ for course fees

Estimated Cost for Students: See tuition table at www.slcc.edu/students-future/tuition-fees

Estimated Time to Completion: Three semesters

Specialized Accreditation: The Salt Lake Community College Allied Health Medical Assistant Program is accredited by CAAHEP (Commission on Accreditation of Allied Health) and the AAMA (America Association of Medical Assistants) Chicago, IL. The MAERB (Medical Assisting Education Review Board) has established thresholds for outcome assessments in medical assistant programs accredited by CAAHEP, one of which is successfully passing the CMA (Certified Medical Assistant) exam with an overall score of 70% or better. All program graduates will be required to take this exam within five years of completion of the program as mandated by the AAMA for program accreditation.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Demonstrate critical thinking based on knowledge and understanding of the Professional Medical Assistant. Apply this knowledge in a healthcare setting by demonstrating competences required cognitively and affectively in anatomy & physiology, applied mathematics, applied microbiology/infection control, effective communications, administrative functions, medical finance, managed care/insurance, procedural and diagnostic coding, healthcare legal issues, protective practices and medical ethical benchmarks as delineated by the Commission on Accreditation of Allied Health Education Programs. Apply and take the national CMA examination within one-year of graduation.	1 – Acquire Substantive Knowledge
Demonstrate critical—reading, writing, speaking, listening, visual understanding common to the healthcare settings: Organizing and presenting ideas and information visually, orally, and in writing according to standard usage; Understanding and using the elements of effective communication in interpersonal, small group, and mass settings. Students will also demonstrate knowledge of cultural differences and diversity and its impact on a patient's medical care and his/ her compliance with a physician's instructions.	2 – Communicate Effectively
Applying mathematical theory, concepts, and methods as they pertain to the medical assistant profession program. All students will successfully pass all math competencies and/or tests in the program at 74% or better. The student will be proficient in all competencies required by the AAMA for program accreditation.	3 – Develop Quantitative Literacy
Demonstrate reasoned critical thinking effectively based on available evidence in healthcare settings; Demonstrating effective problem solving; Engaging in creative thinking, expression, and application. Exiting students will perform administrative and clinical skills at or above the stated career entry level minimums. Students are required to pass courses with a 74% or	4 – Think Critically and Creatively

better for all theory courses and 80% or better for practical courses.	
Engaging in service-learning in the medical assistant 200 hour unpaid practicum.	5 – Civic Engagement
Engaging with others to produce a professional work environment; Interacting with different cultures to demonstrate an understanding and appreciation of human differences and medical ethical considerations; Evaluate and act congruent with the standards of professionalism in healthcare to align with the medical assistant profession and the medical profession.	6 – Work Professionally and Constructively
Employ contemporary computer hardware and software to effectively complete college-level assignments; Understand and act upon ethical and security principles with respect to HIPAA and electronic health records and data; Demonstrate entry level proficiency with electronic- technology used in the healthcare setting.	7 – Develop Computer and Information Literacy

REQUIRED COURSES: (42 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MA 1100	Medical Terminology	3	A	NONE
PSY 1100	Human Growth and Development	3	A	NONE
MA 1420	Clinical Pathology I	3	A	NONE
MATH 1010	Intermediate Algebra	4	A	RDG 0990; within the last year, MATH 0990 w/C or better, or appropriate Accuplacer score
ENG 1010	Introduction to Writing	3	A	WRTG 0990 w/C or better or appropriate Accuplacer score
MA 1200	Medical Office Management	2	A	MA 1100 and MA 1420; w/C or better
MA 1210	Practical Medical Office Management	2	A	Concurrent with MA 1200
MA 1400	Introduction to Patient Care	2	A	MA 1100 and MA 1420; w/C or better
MA 1410	Practical Introduction to Patient Care	2	A	Concurrent with MA 1400
MA 1520	Clinical Path II	3	A	MA 1100 and MA 1420; w/C or better
MA 1290	Intro the EMR/EMC	2	A	MA 1100 and MA 1420; w/C or better
MA 1300	Clinical Pharmacology	3	A	MA 1520 w/C or better
MA 1310	Medical Assistant Math and Administration of Medications	2	A	MA 1520 w/C or better
MA 1240	Medical Office Communication	2	A	MA 1200 w/C or better and MA 1210 w/B or better
MA 1600	Intermediate Patient Care	2	A	MA 1400 w/C or better
MA 1610	Practical Intermediate Patient Care	2	A	Concurrent with MA 1600 and MA 1410 w/B or better
MA 1700	Introduction to Limited Radiology	2	A	MA 1420 and MA 1520 w/C or better
MA 1710	Practical Introduction to Limited Radiology	1	A	Concurrent with MA 1700
MA 2300	Medical Coding	3	A	MA 1420 and MA 1520 w/C or better
MA 2600	Advanced Patient Care	2	A	MA 1600 w/C or better
MA 2610	Practical Advanced Patient Care	3	A	Concurrent with MA 2600 and MA 1610 w/B or better
MA 2700	Limited Radiology	2	A	MA 1700 w/C or better and 1710 w/B or better
MA 2710	Practical Limited Radiology	1	A	Concurrent with MA 2700
MA 2810	Medical Assistant Practicum/Externship	4	A	Successfully completion of all courses is required before placement in practicum. Successfully completion of practicum is required for graduation.

SAMPLE SCHEDULE (prerequisites MAY take longer than one semester to complete)			
Prerequisites Semester		**SECOND SEMESTER**	
MA 1100	3	MA 1300	3
PSY 1010	3	MA 1310	2
MA 1420	3	MA 1240	2
ENG 1010	3	MA 1600	2
MATH 1010	4	MA 1610	2
		MA 1700	2
		MA 1710	1
Total	**16**	**Total**	**14**
FIRST SEMESTER		**THIRD SEMESTER**	
MA 1200	2	MA 2300	3
MA 1210	2	MA 2600	2
MA 1400	2	MA 2610	3
MA 1410	2	MA 2700	2
MA 1520	3	MA 2700	1
MA 1290	2	MA 2810	4
Total	**13**	**Total**	**15**
		Total without prerequisites semester	**42**

Advising Notes:

The MA program starts a new cohort of 20 students every Fall, Spring, and Summer semesters. Students will take MA courses full-time. Students must complete the planned curriculum in sequential order without interruption. Attendance is mandatory for both theory and clinical sections. All MA clinical classes must be successfully completed at 80% or better and MA lecture classes must be successfully completed at 74% or better. Students are allowed two attempts for successful completion of the courses. All students in the MA program must complete a 200 hour practicum without pay after successful completion of all MA courses. The MA Practicum Coordinator will make arrangements for placements at a clinical site for students. It is the students' responsibility to arrange their work and child care schedules to meet the MA 2810 practicum requirements. CPR certification will be required before practicum placement.

MORTUARY SCIENCE - ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 68 credits including prerequisites

Allied Health Division
Jordan Campus, JCHSC 059A
General Information, (801) 957-4073
Program Information, (801) 957-6203
www.slcc.edu/mortuaryscience
Academic Advising, Jordan Campus, JHS 047, (801) 957- 6407
Health Science Admissions, JHS 047, (801) 957-6253

Program Faculty:
Program Director – David Hess
Instructor – David Hess

Program Description: The Mortuary Science program is designed to educate students in all phases of funeral service with special attention being given to the high ethical conduct within the funeral service profession. The knowledge and skills learned will allow students to acquire positions working in funeral homes as funeral directors, embalmers, grief facilitators and pre-need specialists. The aim of the program is to develop funeral service professionals who are active in the community in which they serve, who are knowledgeable and compliant with federal, state, and local area guidelines where they practice, who participate in building relationships with bereaved families and those engaged in the funeral service profession, and are sensitive to the responsibility for public health, safety, and welfare in caring for human remains.

During the course of the program, students will actively participate in embalming, and restorative art procedures of deceased humans through lab sessions at the school and by being placed in a funeral home for training purposes. Students will be responsible for providing their own transportation to clinical sites. Research projects into the field of funeral service will be required. Courses will run in four consecutive semesters. To graduate from the program the student must obtain a C grade or better for all program courses. After completion, students will be prepared for licensure in the state of Utah.

The Mortuary Science program is designed to give students the fundamental knowledge and skills needed to acquire entry-level positions in the funeral service profession and to encourage research in the field of funeral service.

Career Opportunities: The Mortuary Science program is designed to give students the fundamental knowledge and skills needed to acquire entry-level positions in funeral homes/mortuaries, cemetery management, and allied funeral service professions.

Transfer/Articulation Information: For information regarding transfer options, please see the Mortuary Science program advisor.

Program Entry Requirements:

ADMISSIONS PROCESS

1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at : http://www.slcc.edu/transcriptevaluation/. This process may take 4-6 weeks and must be completed before a student's application will be considered.
5. Complete Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC (required before you are able to register for classes that have MATH and RDG/WRTG courses as prerequisites). See: www.slcc.edu/testing
6. Program course prerequisites are as follows (Must be completed with a C grade or better):

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
MATH 1010	Intermediate Algebra	4	A	RDG 0990; within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score
BIOL 1610	College Biology I	4	A	MATH 0990 w/C grade or better, or appropriate Accuplacer score AND RDG 0990 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	MATH 0990 w/C grade or better, or appropriate Accuplacer score AND RDG 0990 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1610
COMM 1020	Public Speaking	3	A	
MORT 1010	Intro Mortuary Science	3	A	

NOTE: All prerequisite courses must be completed prior to submitting application for the Mortuary Science program.

MORTUARY SCIENCE PROGRAM SELECTIVE ADMISSION'S APPLICATION REQUIREMENTS

See the Mortuary Science webpage for essential information regarding completion of program application and additional application requirements http://www.slcc.edu/mortuaryscience/index.aspx. Completion of the prerequisites allows students to apply to the program. Application submission does not guarantee admission to the program. Students should see a Health Sciences advisor.

Total Program/Course Fees: Tuition per semester: www.slcc.edu/students-future/tuition-fees
Estimated costs of books, fees and exams: www.slcc.edu/mortuaryscience

Estimated Time to Completion: Upon acceptance into the program, the time to completion is four semesters (Spring, Summer, Fall, Spring).

Specialized Accreditation: The Mortuary Science AAS program at Salt Lake Community College is accredited by the American Board of Funeral Service Education (ABFSE), 3414 Ashland Avenue, Suite G St. Joseph, Missouri 64506, (816) 233-3747. www.abfse.org, Office: 816-233-3747. Fax: 816-233-3793

The American Board of Funeral Service Education (ABFSE) serves as the national academic accreditation agency for college and university programs in funeral service and mortuary science education. ABFSE is the sole accrediting agency recognized by the U.S. Department of Education and the Council on Higher Education Accreditation.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. To provide a program of study in Mortuary Science to help meet the funeral service industry employment needs of the State of Utah and surrounding states.	1, 5, 6
2. To enlarge the background and knowledge of students about the funeral service profession;	1
3. To educate students in every phase of funeral service and to help enable them to develop proficiency and skills necessary for the profession;	1, 2, 4
4. To educate students concerning the responsibilities of the funeral service profession to the community at large;	2, 5, 6
5. To emphasize high standards of ethical conduct in the industry;	2, 4, 5, 6
6. To provide a curriculum at the post- secondary level of instruction;	1, 2, 3, 4
7. To encourage student and faculty research in the field of funeral service.	3, 4, 7
8. To provide students the business and legal knowledge, philosophical/ethical principles, computer knowledge and specific techniques and skills to enable them to be successful within the funeral service profession.	1, 2, 4, 5, 7
9. To educate and prepare individuals for active contribution to the service and welfare of their communities.	2, 5, 6

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within the last year, MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Public Speaking	3	A	

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 2110	Interpersonal Comm	3	A	

DISTRIBUTION AREAS (BS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	MATH 0990 w/C grade or better, or appropriate Accuplacer score AND RDG 0990 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab	0	A	MATH 0990 w/C grade or better, or appropriate Accuplacer score AND RDG 0990 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1610

REQUIRED COURSES: (51 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ACCT 1110	Financial Accounting	3	F	
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2320
MGT 2050	Legal Environ of Bus	3	A	BUS 1050; see Health Science Academic Advisor
MORT 1010	Intro Mortuary Science	3	A	Must be taken as a prerequisite to program
MORT 1100	Grief/Death/Dying	3	Sp	MORT 1010, admission to program
MORT 1200	Microbio Studies Mort Sci	3	Sp	MORT 1010; Admission to program
MORT 1300	Pathology Funeral Srv	2	Sp	MORT 1010, admission to program
MORT 1400	Embalming I	3	Su	MORT 1200, MORT 1300, Coreq: MORT 1405 & MORT 1600
MORT 1405	Embalming I Lab	1	Su	MORT 1200, MORT 1300, Coreq: MORT 1400 & MORT 1600
MORT 1600	Thanatochemistry	2	Su	MORT 1300. Coreq: MORT 1400 & MORT 1405
MORT 2330	Funeral Srv Psy/Counsel	3	F	MORT 1100
MORT 2400	Embalming II	3	F	MORT 1400. Coreq: MORT 2405
MORT 2405	Embalming II Lab	1	F	MORT 1400, Coreq: MORT 2400
MORT 2600	Restorative Art	3	F	MORT 1400 & MORT 1405. Coreq: MORT 2605
MORT 2605	Restorative Art Lab	1	F	MORT 1400 & MORT 1405. Coreq: MORT 2600
MORT 2700	Mortuary Law & Ethics	3	Sp	MORT 1100
MORT 2730	Funeral Home Mgmt	4	Sp	MORT 1100
MORT 2750	Funeral Directing	4	Sp	MORT 1100
MORT 2770	NBE Professional Review	2	Sp	MORT 2400/2405 and MORT 2600/2605

SAMPLE SCHEDULE	
PREREQUISITES	
MATH 1010	4
ENGL 1010	3
BIOL 1610/1615	4
COMM 1020	3
MORT 1010	3
Total	**17**

SPRING SEMESTER		**SUMMER SEMESTER**	
BIOL 2320/2325	4	COMM 2110	3
MORT 1100	3	MORT 1400	3
MORT 1200	3	MORT 1405	1
MORT 1300	2	MORT 1600	2
Total	**12**	**Total**	**9**
FALL SEMESTER		**SPRING SEMESTER**	
ACCT 1110	3	MGT 2050	3
MORT 2330	3	MORT 2700	3
MORT 2400	3	MORT 2730	4
MORT 2405	1	MORT 2750	4
MORT 2600	3	MORT 2770	2
MORT 2605	1		
Total	**14**	**Total**	**16**

Advising Notes: The Mortuary Science Program accepts 20 students every Spring Semester. Once accepted, students will complete the program in 4 semesters (spring, summer, fall, spring). This program requires full time day attendance.

Prerequisites must be completed prior to submitting mortuary science application. In addition, the following courses may also be completed prior to acceptance into the Mortuary Science Program: BIOL 2320/2325 Human Anatomy, COMM 2110 Interpersonal Communication, ACCT 1110 Financial Accounting and MGT 2050 Legal Environ of Bus. It is highly recommended that students complete BIOL 2320/2325 prior to the first semester in the Mortuary Science Program. BIOL 2320/2325 Human Anatomy must be less than five years old.

Students must complete both sections of the official National Board Exam to graduate.

MUSIC – ASSOCIATE OF SCIENCE (AS) 61 credits minimum

Communication and Performing Arts Division
South City Campus
General Information, (801) 957-4073
Program Information, (801) 957-4130
www.slcc.edu/performingarts
Academic Advisor, Cindy Clark SCC 1.061.ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD, (801)-957-3361

Program Faculty:
Associate Professors – Lyle Archibald, Thomas Baggaley
Assistant Professors – Craig Ferrin
Instructors – Stephen Sue

Program Description: The Music Department offers a two-year program of music education for students planning to major in music at a four-year institution, as well as the student who is interested in improving their individual musical knowledge and abilities.

Departmental offerings include music theory, conducting, MIDI technology (computer/synthesizer), songwriting, music history and music appreciation. The Department also offers opportunities to develop individual music skills in a variety of instruments, piano and voice, as well as performing experience in auditioned and non-auditioned ensembles. The Music Department faculty supports high standards in music education; they encourage and mentor individual students to attain their highest potential.

Career Opportunities: Continuation to baccalaureate granting institutions in performance and music education. Students may also open studios in private music teaching and approach local recording studios for recording work. Performers may also engage in performance for pay as an entrepreneur in the music field. Most performing musicians do not hold regular jobs as performers but work as contract entrepreneurs in the communities.

Transfer/Articulation Information: Music majors planning to transfer to a four-year institution will be required to pass a vocal or instrumental proficiency exam. It is strongly encouraged that students take 45-minute private lessons each semester in voice or their instrument of study to prepare for this exam.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements: By Audition or faculty approval. Students with insufficient prior preparation may be required to take MUSC 1100 Intro to Music Theory before being allowed to begin taking the required courses in Music Theory. Students with insufficient piano/keyboard skills may be required to take MUSC 1150 and MUSC 1160 or private piano lessons to complete the piano proficiency requirement. Contact Thomas Baggaley: thomas.baggaley@slcc.edu

Total Program/Course Fees: Estimated books and supplies- $350 - $450 per semester, $10.00 for performing classes for music, $360 per semester for private lessons (voice or instrumental).

Estimated Cost for Students: Cost of supplies and texts are comparable with other General Education classes at approximately $40 per text. Some courses require additional fees or may require concert attendance.

Estimated Time to Completion: If students follow the suggested schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with

	others in a professional and constructive manner 7 – Develop computer and information literacy
1. Prepare students for transfer to four-year music programs in the state of Utah	1,2,3,4,5
2. Proficiency in academic understanding of music theory, ear-training, piano/keyboard, and sight-singing.	1,2,3,4
3. Proficiency in musical performance with appropriate expression, accuracy and artistic value.	1,2,3,4,5
4. Show proficiency in at least one performance medium of voice, instrument, or composition.	1,2,3,4,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE				
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (27 CREDITS)

COURSE		CR	SEM	PREREQUISITE
Four semesters of Recital Attendance				
MUSC 0990	Recital Attendance	0	F, Sp	
MUSC 1110	Music Theory I	3	F, Sp	MUSC 1100 or equivalent proficiency (test given first day). Coreq: 1130
MUSC 1120	Music Theory II	3	Sp, Su	MUSC 1110 w/C grade or better. Coreq: MUSC 1140
MUSC 1130	SS and Ear I	1	F, Sp	Coreq: MUSC 1110
MUSC 1140	SS and Ear II	1	Sp, Su	MUSC 1130 w/C grade or better. Coreq: MUSC 1120

MUSC 1200	Introduction to the Music Industry	1	F, Sp	
OR				
MUSC 1300	Money & Creative Profs.	1	F, Sp	
Four semesters of a Performance Ensemble (see below)		1	F, Sp	Audition
Four semesters of Private Applied Instruction (see below)		1	F, Sp	Audition
MUSC 2110	Music Theory III	3	F	MUSC 1120 w/C grade or better. Coreq: MUSC 2130
MUSC 2130	SS and Ear Training III	1	F	MUSC 1140 w/C grade or better. Coreq: MUSC 2110
MUSC 2120	Music Theory IV	3	Sp	MUSC 2110 w/C grade or better. Coreq: MUSC 2140
MUSC 2140	SS and Ear Training IV	1	Sp	MUSC 2130 w/C grade or better. Coreq: MUSC 2120
MUSC 2350	Conducting Fundamentals	2	Sp	MUSC 1120

NOTE: MUSC 0990 must be taken each semester for four semesters. Students may use any combination of MUSC 1370, 1380, 1390, 1450, 1460, or 1470 (including repeating any of these classes for credit - which is the normal case) to fulfill the four credits of vocal or instrumental performance ensemble that must be taken (preferably one each semester).

Students may use MUSC 1712, 1715, 1722, 1725, 1732, 1735, 1742,1745, 1752, 1755, 1762, or 1765 to fulfill two of the four credits of vocal or instrumental private applied instruction that must be taken and MUSC 2712, 2715, 2722, 2725, 2732, 2735, 2742, 2745, 2752, 2755, 2762, or 2765 to complete the remaining two credits. Students must pass a proficiency jury upon completion of the two semesters at the first year (1000) level of private applied instruction to advance to the second year (2000) level. They must also pass a proficiency jury upon completion of the two semesters of second year level private applied instruction to fulfill the private applied portion of their degree requirement.

In order to receive this degree, all students are required to pass a piano/keyboard proficiency exam, which is usually taken at the beginning of the student's first semester in the program. Students with insufficient prior preparation in this area may be required to take MUSC 1150 and MUSC 1160 to obtain the necessary skills to successfully complete the piano proficiency requirement. Contact Thomas Baggaley: thomas.baggaley@slcc.edu

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
MUSC 0990	0	MUSC 0900	0
ENSEMBLE	1	ENSEMBLE	1
MUSC 1110	3	MUSC 1120	3
MUSC 1130	1	MUSC 1140	1
ENGL 1010	3	HLAC	1
AI	3	DISTRIBUTION (2)	6
MUSC 1200 OR 1300	1	COMM 1010	3
PRIVATE LESSONS	1	PRIVATE LESSONS	1
QL	3		
Total	**16**	**Total**	**16**

FALL SEMESTER		**SPRING SEMESTER**	
MUSC 0990	0	MUSC 0900	0
ENSEMBLE	1	ENSEMBLE	1
MUSC 2110	3	MUSC 2350	2
MUSC 2130	1	MUSC 2120	3
DISTRIBUTION (3)	9	MUSC 2140	1
PRIVATE LESSONS	1	ENGL 2010	3
		DISTRIBUTION	1
		PRIVATE LESSONS	1
Total	**15**	**Total**	**14**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisites for each class. Those prerequisites must be satisfied before the designated class may be taken. It is recommended that students complete some of their distribution requirements by taking MUSC 1500 Music and Technology (which meets the Interdisciplinary distribution requirement) and one of the following: MUSC 1010 Introduction to Music, MUSC 1030 Survey of Jazz or MUSC 1040 U.S. Music & Culture (each of which meets the Fine Arts distribution requirement - MUSC 1040 also meets the Diversity course requirement). It is also recommended that students take another of these courses (MUSC 1010, 1030 or 1040) to meet the Student Choice (Depth) General Education requirement.

DEPARTMENTAL COURSE OFFERINGS

COURSE		CR	SEM	PREREQUISITE
MUSC 0990	Recital Attendance	0	F, Sp	
MUSC 1010	Intro to Music (FA)	3	A	
MUSC 1025	Collaboration in the Arts (HR)	3	F, Sp	
MUSC 1030	Survey of Jazz (FA)	3	A	
MUSC 1040	US Music Culture (FA,DV)	3	A	
MUSC 1050	Songwriting I	2	F, Sp	
MUSC 1060	Songwriting II	2	Sp, Su	MUSC 1050 w/C grade or better or instructor approval
MUSC 1090	Bridging the Arts (FA)	3	A	
MUSC 1100	Intro to Music Theory	2	F, Sp	
MUSC 1110	Music Theory I	3	F, Sp	MUSC 1100 or equivalent proficiency (test given first day). Coreq: 1130
MUSC 1120	Music Theory II	3	Sp, Su	MUSC 1110 w/C grade or better. Coreq: MUSC 1140
MUSC 1130	SS and Ear Training I	1	F, Sp	MUSC 1110
MUSC 1140	SS and Ear Training II	1	Sp, Su	MUSC 1130 w/C grade or better. Coreq: MUSC 1120
MUSC 1145	Intro to Piano	2	F	
MUSC 1150	Group Piano I	1	F, Sp	
MUSC 1160	Group Piano II	1	Sp	MUSC 1150 or instructor approval
MUSC 1200	Introduction to the Music Industry	1	F, Sp	
MUSC 1300	Money & Creative Profs.	1	F, Sp	
MUSC 1310	Group Voice I	2	A	
MUSC 1350	College Chorale	1	F, Sp	
MUSC 1360	College Chorale	0	F, Sp	
MUSC 1370	Concert Choir	1	F, Sp	Audition
MUSC 1380	Chamber Singers	1	F, Sp	Audition
MUSC 1390	South City Jazz	1	F, Sp	Audition
MUSC 1400	Copyrights for Creative Professionals	1	TBA	
MUSC 1420	Sales Promo For Creative Professionals	2	TBA	
MUSC 1440	Build Creative Business	2	TBA	
MUSC 1450	Bruin Band	1	TBA	
MUSC 1460	Chamber Orchestra	1	F, Sp	Audition
MUSC 1470	Jazz Ensemble	1	F, Sp	Audition
MUSC 1480	Guitar Ensemble	1	F, Sp	Audition
MUSC 1500	Music and Tech (ID)	3	A	
MUSC 1510	Desktop Music Pub.	3	F	MUSC 1100 or equivalent proficiency (ability to read music notation) or MUSC 1100 taken concurrently
MUSC 1515	Basic Audio Production	3	A	
MUSC 1520	Intro MIDI/Elec Mus Comp	3	F, Sp	
MUSC 1530	Music Rec Techniques	4	Sp, Su	MUSC/COMM/FLM/THEA 1515 w/C grade or better or instructor approval
MUSC 1540	MIDI II/Media Music Comp	3	Sp, Su	MUSC 1520 or instructor approval
MUSC 1550	Musical Acoustics	3	F	Recommended prereq: Math proficiency - Algebra and Geometry
MUSC 1560	Music Mixing Techniques	3	Sp, Su	Prereq: MUSC/COMM/FLM/THEA 1515 w/C grade or better or instructor approval
MUSC 1610	Group Guitar I	2	A	
MUSC 1620	Group Guitar II	2	F, Sp	MUSC 1610
MUSC 1660	Fretboard Theory I	2	F	
MUSC 1670	Fretboard Theory II	2	Sp	MUSC 1660
MUSC 1710	Pvt Gtr/Bass (nonMaj)	1	A	
MUSC 1712	Pvt Gtr/Bass (MusEdMaj)	1	A	Audition
MUSC 1715	Pvt Gtr/Bass (Perf Maj)	2	A	Audition
MUSC 1720	Pvt Strings (nonMaj)	1	A	
MUSC 1722	Pvt Strings (MusEdMaj)	1	A	Audition
MUSC 1725	Pvt Strings (Perf Maj)	2	A	Audition

MUSC 1730	Pvt Piano (nonMaj)	1	A	
MUSC 1732	Pvt Piano (MusEdMaj)	1	A	Audition
MUSC 1735	Pvt Piano (Perf Maj)	2	A	Audition
MUSC 1740	Pvt Brass (nonMaj)	1	A	
MUSC 1742	Pvt Brass (MusEdMaj)	1	A	Audition
MUSC 1745	Pvt Brass (Perf Maj)	2	A	Audition
MUSC 1750	Pvt Voice (nonMaj)	1	A	
MUSC 1752	Pvt Voice (MusEdMaj)	1	A	Audition
MUSC 1755	Pvt Voice (Perf Maj)	2	A	Audition
MUSC 1760	Pvt Woodwind (nonMaj)	1	A	
MUSC 1762	Pvt Wdwd (MusEdMaj)	1	A	Audition
MUSC 1765	Pvt Woodwd (Perf Maj)	2	A	Audition
MUSC 1900	Special Projects	1-2	F, Sp	Instructor approval
MUSC 2110	Music Theory III	3	F	MUSC 1120 w/C grade or better. Coreq: MUSC 2130
MUSC 2130	SS and Ear Training III	1	F	MUSC 1140 w/C grade or better. Coreq: MUSC 2110
MUSC 2120	Music Theory IV	3	Sp	MUSC 2110 w/C grade or better. Coreq: MUSC 2140
MUSC 2140	SS and Ear Training IV	1	Sp	MUSC 2130 w/C grade or better. Coreq: MUSC 2120
MUSC 2350	Conducting Fundamentals	2	Sp	MUSC 1120
MUSC 2500	Music Production Group	4	A	MUSC 1060, 1530 or 1540 w/C grade or better or instructor approval.
MUSC 2520	Music Scoring for Film	3	F	MUSC 1540 or MUSC 1120 w/C grade or better or instructor approval.
MUSC 2550	Music Internship	1-3	A	Instructor approval and second year status in the Music Recording Technology or Media Music programs.
MUSC 2570	Game Audio Design	4	S	MUSC 1515
MUSC 2710	Pvt Gtr/Bass (nonMaj)	1	A	MUSC 1710
MUSC 2712	Pvt Gtr/Bass (MusEdMaj)	1	A	MUSC 1712 and Audition
MUSC 2715	Pvt Gtr/Bass (Perf Maj)	2	A	MUSC 1715 and Audition
MUSC 2720	Pvt Strings (nonMaj)	1	A	MUSC 1720
MUSC 2722	Pvt Strings (MusEdMaj)	1	A	MUSC 1722 and Audition
MUSC 2725	Pvt Strings (Perf Maj)	2	A	MUSC 1725 and Audition
MUSC 2730	Pvt Piano (nonMaj)	1	A	MUSC 1730
MUSC 2732	Pvt Piano (MusEdMaj)	1	A	MUSC 1732 and Audition
MUSC 2735	Pvt Piano (Perf Maj)	2	A	MUSC 1735 and Audition
MUSC 2740	Pvt Brass (nonMaj)	1	A	MUSC 1740
MUSC 2742	Pvt Brass (MusEdMaj)	1	A	MUSC 1742 and Audition
MUSC 2745	Pvt Brass (Perf Maj)	2	A	MUSC 1745 and Audition
MUSC 2750	Pvt Voice (nonMaj)	1	A	MUSC 1750
MUSC 2752	Pvt Voice (MusEdMaj)	1	A	MUSC 1752 and Audition
MUSC 2755	Pvt Voice (Perf Maj)	2	A	MUSC 1755 and Audition
MUSC 2760	Pvt Woodwind (nonMaj)	1	A	MUSC 1760
MUSC 2762	Pvt Wdwd (MusEdMaj)	1	A	MUSC 1762 and Audition
MUSC 2765	Pvt Woodwd (Perf Maj)	2	A	MUSC 1765 and Audition
MUSC 2900	Special Topics	1-3	TBA	Department approval
MUSC 2990	Perf Arts Connct	2	Sp	Department approval

MEDIA MUSIC – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 67 credits minimum

Communication and Performing Arts Division
South City Campus
General Information, (801) 957-4073
Program Information, (801) 957-4130
www.slcc.edu/performingarts
Academic Advisor, Cindy Clark SCC, 1.062.ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD, (801) 957-3361

Program Faculty:
Associate Professors – Lyle Archibald
Assistant Professors – Thomas Baggaley, Craig Ferrin
Instructors – Stephen Sue

Program Description: The AAS in Media Music is designed to prepare students to work professionally as music producers, composers, songwriters and/or arrangers in the music and multimedia industries. In addition to a basic core of musical skills, students receive training and gain experience creating music using electronic and acoustic instruments for use in a variety of professional and commercial settings from film scores and commercial music productions to music for video games and other multimedia projects. They also receive training in business and entrepreneurship as it applies to the music industry and build a portfolio of projects that they can use to apply those entrepreneurship skills in pursuing work in the industry.

Career Opportunities: Students completing the degree program will have received training that will help to prepare them to work as a freelance composer, songwriter and/or arranger. Students may also find work in a recording studio, working as a studio musician developing MIDI-based recordings to combine with acoustic elements of digital recording. However, a large percentage of those who make their living in this field are self-employed and work on a contract basis. For this reason, an important part of the course requirements is designed to teach students the kinds of skills they will need to be successful as freelance artists. Additional freelance work may be found in the related fields of sound design/synthesis and digital audio recording engineering (although the Music Recording Technology degree is designed to give more specialized training in the audio recording area).

Transfer & Articulation Information: The core of classes of the Media Music AAS, also required for the Music AS degree, have been articulated with all state-sponsored higher education institutions in the state of Utah.

Program Entry Requirements: A musical background with performance experience including basic piano/keyboard skills and the ability to read music notation are desirable and will benefit students entering the program. Students with insufficient prior preparation may be required to take MUSC 1100 Intro to Music Theory before being allowed to begin taking the required courses in Music Theory. Students with insufficient piano/keyboard skills may be required to take MUSC 1150 and MUSC 1160 to complete the piano proficiency requirement. Contact Thomas Baggaley: thomas.baggaley@slcc.edu.

Total Program/Course Fees: In addition to tuition, students will need to purchase $550-$600 worth of books while completing the specified courses.

Estimated Cost for Students: While not required for completion of the program, any professional composer of media music will need to buy equipment for his own MIDI project studio eventually. The estimated minimal costs for such equipment and related software is at least $3,000 (and will grow from there as they acquire more equipment over time). Ownership of this equipment as a student would be helpful to the student's success but is not required as all of the required equipment is available for use in on-campus computer labs.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged

	6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students demonstrate proficiency in music composition for both acoustic and electronic instruments.	1, 4
Students demonstrate the ability to work in a collaborative team environment on professional-quality music projects for both musical and non-musical clients.	1, 2, 4
Specialization - Students demonstrate the development of professional-quality specialization within the field of music composition and production.	1, 2, 4
Students demonstrate the appropriate entrepreneurial skills necessary for a freelance artist including but not limited to portfolio development, networking, promotion/marketing and basic business accounting.	1, 4
Students demonstrate proficiency in academic understanding of the basic structures of music including the ability to compose and analyze music according to common theoretical practices generally accepted in the music industry.	1, 2, 3, 4
Students demonstrate proficiency in the ability to fluently read and write music notation in accordance with practices generally accepted in the music industry.	1, 2
Students demonstrate proficiency in musical performance with appropriate expression, accuracy and artistic value.	1, 2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved QS course			

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (38 CREDITS)

COURSE		CR	SEM	PREREQUISITE
Four semesters of:				
MUSC 0990	Recital Attendance	0	F, Sp	
MUSC 1110	Music Theory I	3	F, Sp	MUSC 1100 or equivalent proficiency (Ability to read music notation - test given first day). Coreq: 1130
MUSC 1120	Music Theory II	3	Sp, Su	MUSC 1110 w/ C grade or better. Coreq: MUSC 1140
MUSC 1130	Sight Singing/Ear Training I	1	F, Sp	Should be taken concurrently with MUSC 1110
MUSC 1140	Sight Singing/Ear Training II	1	Sp, Su	MUSC 1130 w/ C grade or better; Coreq: MUSC 1120
MUSC 1200	Introduction to the Music Industry	1	F, Sp	
MUSC 1300	Money & Creative Prof	1	F, Sp	

MUSC 1520	Intro MIDI/Elec Mus Comp	3	F, Sp	
MUSC 1540	MIDI II/Media Musc Comp	3	Sp, Su	MUSC 1520
MUSC 2110	Music Theory III	3	F	MUSC 1120 w/ C grade or better. Coreq: MUSC 2130
MUSC 2120	Music Theory IV	3	Sp	MUSC 2110 w/ C grade or better. Coreq: MUSC 2140
MUSC 2130	Sight Sing/Ear Training III	1	F	MUSC 1140 w/ C grade or better; Coreq: MUSC 2110
MUSC 2140	Sight Sing/Ear Training IV	1	Sp	MUSC 2130 w/ C grade or better; Coreq: MUSC 2120
MUSC 2350	Conducting Fundamentals	2	Sp	MUSC 1120

Two semesters of:

MUSC 2500	Music Production Group	4	A	MUSC 1060, 1530 or 1540

Four semesters of:

Performance Ensemble - qualifying courses include MUSC 1350, 1360, 1370, 1380, 1390, 1450, 1460, 1470 and 1480

1	A	An audition may be required for specific ensembles

NOTE: MUSC 0990 must be taken each semester for four semesters Students may use any combination of MUSC 1350, 1360, 1370, 1380, 1390, 1450, 1460, 1470 or 1480 (including repeating any of these classes for credit - which is the normal case) to fulfill the four credits of vocal or instrumental performance ensemble that must be taken.

In order to receive this degree, all students are required to pass a piano/keyboard proficiency exam, which is usually taken at the beginning of the student's first semester in the program. Students with insufficient prior preparation in this area may be required to take MUSC 1150 and MUSC 1160 to obtain the necessary skills to successfully complete the piano proficiency requirement. Contact Thomas Baggaley: thomas.baggaley@slcc.edu.

ELECTIVE COURSES: (SELECT 10 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
MUSC 1050	Songwriting I	2	F, Sp	
MUSC 1060	Songwriting II	2	Sp, Su	MUSC 1050 w/ C grade or better or instructor approval
MUSC 1400	Copyrights For Creative Professionals	1		
MUSC 1420	Sales Promo For Creative Professionals	2		
MUSC 1440	Build Creative Business	2		
MUSC 1510	Desktop Music Publishing	3	F	MUSC 1100 or equivalent proficiency (ability to read music notation) or MUSC 1100 taken concurrently
MUSC 1515	Basic Audio Production	3	F, Sp	
MUSC 1530	Music Recording Tech	3	Sp	MUSC/COMM/FLM/THEA 1515 w/ C grade or better or instructor approval
MUSC 1550	Musical Acoustics	3	F, Sp	Math proficiency usually demonstrated by successful completion of the QL or QS Gen Ed requirement (knowledge of Algebra and Geometry)
MUSC 1560	Music Mixing Techniques	3	Sp, Su	Prereq: MUSC/COMM/FLM/THEA 1515 w/ C grade or better or instructor approval
MUSC 2510	Music Composition for Games and Interactive Media	3	Sp	MUSC 1540 or MUSC 1120 or instructor approval
MUSC 2520	Music Scoring for Film	3	F	MUSC 1540 or MUSC 1120 or instructor approval
MUSC 2550	Music Internship	1-3	A	Instructor approval and second year status in the Music Recording Technology or Media Music programs.
Additional semesters of performance ensembles (see below)		1	F, Sp	
Private Vocal or Instrumental Lessons (see below)		1	A	Audition

Additional semesters of Performance Ensembles may also be used for elective credit - qualifying courses include MUSC 1350, 1360, 1370, 1380, 1390, 1450, 1460, 1470 and 1480. An audition may be required for specific ensembles. Students may repeat any performance ensemble classes for elective credit in this degree program.
Students may use MUSC 1712, 1715, 1722, 1725, 1732, 1735, 1742,1745, 1752, 1755, 1762, 1765, 2712, 2715, 2722, 2725, 2732, 2735,

2742, 2745, 2752, 2755, 2762, or 2765 to complete any elective credits for private vocal or instrumental lesson instruction. Students must pass a proficiency jury to advance to the second year (2000) level of private applied instruction. These courses may be repeated for elective credit in this degree program.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
MUSC 0990	0	MUSC 0990	0
ENSEMBLE	1	ENSEMBLE	1
MUSC 1110	3	MUSC 1120	3
MUSC 1130	1	MUSC 1140	1
MUSC 1520	3	MUSC 1540	3
MUSC 1200	1	ENGL 1010	3
MUSC 1300	1	HR	3
QS	4	DISTRIBUTION	3
DISTRIBUTION	3	**Total**	**17**
Total	**17**		
FALL SEMESTER		**SPRING SEMESTER**	
MUSC 0990	0	MUSC 0990	0
ENSEMBLE	1	ENSEMBLE	1
MUSC2110	3	MUSC 2120	3
MUSC 2130	1	MUSC 2140	1
MUSC 2500	4	MUSC 2350	2
ELEC	2-3	MUSC 2500	4
ELEC	2-3	ELEC	2-3
CM	3	ELEC	2-3
Total	**16-18**	**Total**	**15-17**

Advising Notes: It is recommended that students complete their distribution requirements by taking MUSC 1500 Music and Technology (which meets the Interdisciplinary distribution requirement) and one of the following: MUSC 1010 Introduction to Music, MUSC 1030 Survey of Jazz or MUSC 1040 U.S. Music & Culture (each of which meets the Fine Arts distribution requirement). It is the student's responsibility to examine each course description for details of prerequisites for each class. Those prerequisites must be satisfied before the designated class may be taken.

MUSIC RECORDING TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE (AAS)[CTE] 65 credits minimum

Communication and Performing Arts Division
South City Campus
General Information, (801) 957-4073
Program Information, (801) 957-4130
www.slcc.edu/performingarts
Academic Advisor, Cindy Clark, SCC 1.061.ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD, (801) 957-3361

Program Faculty:
Associate Professors – Lyle Archibald
Assistant Professors − Thomas Baggaley, Craig Ferrin
Instructors − Stephen Sue

Program Description: The Music Recording Technology AAS degree program will provide students with the required skills to perform high-level tasks in the music recording industry, the business skills to be successful entrepreneurs, and the opportunity to build a portfolio of projects that will demonstrate their skills and technical abilities. Broadcast and sound engineering technicians and radio operators perform a wide variety of tasks. Their duties include setting up, operating, and maintaining the electronic equipment used in nearly all radio and television broadcasts, concerts, plays, sound recordings, and movies. They also install and maintain audiovisual equipment in businesses, schools, homes, performance venues, and other settings. There are many specialized occupations in this field.

This program will help students develop the requisite skills and technical knowledge to install and maintain audiovisual equipment and to make professional quality audio recordings for a variety of media (film, television, radio, commercial recordings, computer games, etc.); it will also help students develop the entrepreneurial ability to help them to monetize these skills. The program strives to combine a solid foundation in traditional musical and technical instruction with opportunities to gain experience working on projects modeled after those regularly encountered by professionals in the music and multimedia production industries. Music Recording Technology students will collaborate with students from other programs, such as film or animation students, as a part of their education and training.

Career Opportunities: Students completing the degree program will have received training that will help to prepare them to work as a recording engineer in a music recording studio and for freelance work as a sound designer for live concert productions. According to the United States Department of Labor, Bureau of Labor Statistics Occupational Handbook 2010-11 edition, about 29 percent of broadcast and sound engineering technicians and radio operators worked in broadcasting (except Internet broadcasting), and 15 percent worked in the motion picture, video, and sound recording industries. About 13 percent were self-employed. Students may also find freelance work in the allied fields of sound design/synthesis, film sound, songwriting, composition and arranging, although the best preparation for such jobs will take place through the completion of the appropriate elective courses.

Transfer/Articulation Information: The core of classes of the Music Recording Technology AAS, also required for the Music AS degree, have been articulated with all state-sponsored higher education institutions in the state of Utah.

Program Entry Requirements: A musical background with performance experience including basic piano/keyboard skills and the ability to read music notation are desirable and will benefit students entering the program. Students with insufficient prior preparation may be required to take MUSC 1100 Intro to Music Theory before being allowed to begin taking the required courses in Music Theory. Students with insufficient piano/keyboard skills may be required to take MUSC 1150 and MUSC 1160 to complete the piano proficiency requirement. Contact Thomas Baggaley: thomas.baggaley@slcc.edu.

Total Program/Course Fees: In addition to tuition, students will need to purchase $550-$600 worth of books while completing the specified courses.

Estimated Cost for Students: While not required for completion of the program, over time, any professional recording engineer will accumulate a large collection of equipment required for work in the field, such as microphones, mixers, audio cables, digital recording equipment, computers, and software, etc. Students may find it helpful to begin to purchase the most essential parts of this equipment while still participating in the program.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students demonstrate the ability to work on all aspects of a music recording project, both recorded in a live performance setting and recorded in a controlled studio setting. These aspects include but are not limited to microphone placement, live sound mixing, tracking and final recording mixing and mastering.	1, 4
Students demonstrate an understanding of the mathematics and science associated with basic electronics and instrumentation technology.	1, 3
Students demonstrate an understanding of the mathematics and science associate with musical acoustics, especially as they relate to recording situations including but not limited to studio design, the acoustics of instruments and sound production and performance space acoustics that might affect live audio production.	1, 3
Students demonstrate the ability to work in a collaborative team environment on professional-quality music projects for both musical and non-musical clients.	1, 2, 4
Students demonstrate the appropriate entrepreneurial skills necessary for a freelance artist including but not limited to portfolio development, networking, promotion/marketing and basic business accounting.	1, 4
Students demonstrate intermediate-level proficiency in academic understanding of the basic structures of music including the ability to compose and analyze music according to common theoretical practices generally accepted in the music industry.	1, 2, 3, 4
Students demonstrate intermediate-level proficiency in the ability to fluently read and write music notation in accordance with practices generally accepted in the music industry.	1, 2
Students demonstrate proficiency in musical performance with appropriate expression, accuracy and artistic value.	1, 2, 3, 4, 5

GENERAL EDUCATION REQUIREMENTS
CORE SKILLS:
COMPOSITION (EN) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
ENGL 1010 Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved QS course			

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE

Any approved HR course

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas:

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Physical Science (PS)	3		
Social Science (SS)	3		

NOTE: PHYS 1010 cannot be used to fulfill the Physical Science (PS) General Education requirement.

REQUIRED COURSES: (38 CREDITS)

COURSE		CR	SEM	PREREQUISITE
Four semesters of:				
MUSC 0990	Recital Attendance	0	F, Sp	
MUSC 1110	Music Theory I	3	F, Sp	MUSC 1100 or equivalent proficiency (Ability to read music notation - test given first day). Coreq: 1130
MUSC 1120	Music Theory II	3	Sp, Su	MUSC 1110 w/C grade or better. Coreq: MUSC 1140
MUSC 1130	Sight Singing/Ear Training I	1	F, Sp	Should be taken concurrently with MUSC 1110
MUSC 1140	Sight Singing/Ear Training II	1	Sp, Su	MUSC 1130 w/C grade or better; Coreq: MUSC 1120
MUSC 1200	Introduction to the Music Industry	1	F, Sp	
MUSC 1300	Money & Creative Prof	1	F, Sp	
MUSC 1515	Basic Audio Production	3	A	
MUSC 1520	Intro to MIDI/Elec Mus Comp	3	F, Sp	
MUSC 1530	Music Recording Techniques	3	Sp, Su	MUSC/COMM/FLM/THEA 1515 w/C grade or better or instructor approval
MUSC 1550	Musical Acoustics	3	F	Math proficiency usually demonstrated by successful completion of the QL or QS Gen Ed requirement (knowledge of Algebra and Geometry)
MUSC 1560	Music Mixing Techniques	3	Sp, Su	Prereq: MUSC/COMM/FLM/THEA 1515 w/C grade or better or instructor approval
PHYS 1010	Elementary Physics (PS)	3	F, Sp	
Two semesters of:				
MUSC 2500	Music Production Group	4	A	MUSC 1060, 1530 or 1540 w/C grade or better or instructor approval
Two semesters of:				
	Performance Ensemble (see below)	1	F, Sp	An audition may be required for some ensembles

NOTE: MUSC 0990 must be taken each semester for four semesters. Students may use any combination of MUSC 1350, 1360, 1370, 1380, 1390, 1450, 1460, 1470 or 1480 (including repeating any of these classes for credit - which is the normal case) to fulfill the two credits of vocal or instrumental performance ensemble that must be taken.

In order to receive this degree, all students are required to pass a piano/keyboard proficiency exam, which is usually taken at the beginning of the student's first semester in the program. Students with insufficient prior preparation in this area may be required to take MUSC 1150 and MUSC 1160 to obtain the necessary skills to successfully complete the piano proficiency requirement. Contact Thomas Baggaley: thomas.baggaley@slcc.edu.

ELECTIVE COURSES: (SELECT 10 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
MUSC 1050	Songwriting I	2	F, Sp	

MUSC 1060	Songwriting II	2	Sp, Su	MUSC 1050 w/C grade or better or instructor approval
MUSC 1400	Copyrights For Creative Professionals	1		
MUSC 1420	Sales Promo For Creative Professionals	2		
MUSC 1440	Build Creative Business	2		
MUSC 1510	Desktop Music Pub.	3	F	MUSC 1100 or equivalent proficiency (ability to read music notation) or MUSC 1100 taken concurrently
MUSC 1540	MIDI II	3	Sp, Su	MUSC 1520 or instructor approval
MUSC 2110	Music Theory III	3	F	MUSC 1120 w/C grade or better. Coreq: MUSC 2130
MUSC 2120	Music Theory IV	3	Sp	MUSC 2110 w/C grade or better. Coreq: MUSC 2140
MUSC 2130	SS and Ear Training III	1	F	MUSC 1140 w/C grade or better. Coreq: MUSC 2110
MUSC 2140	SS and Ear Training IV	1	Sp	MUSC 2130 w/C grade or better. Coreq: MUSC 2120
MUSC 2350	Conducting Fundamentals	2	Sp	MUSC 1120
MUSC 2510	Music Composition for Games and Interactive Media	3	Sp	MUSC 1540 or MUSC 1120 or instructor approval
MUSC 2520	Music Scoring for Film	3	F	MUSC 1540 or MUSC 1120 or instructor approval
MUSC 2550	Music Internship	1-3	A	Instructor approval and second year status in the Music Recording Technology or Media Music programs.
Additional semesters of performance ensembles (see below)		1	F, Sp	
Private Vocal or Instrumental Lessons (see below)		1	A	Audition

NOTE: Additional semesters of Performance Ensembles may also be used for elective credit - qualifying courses include MUSC 1350, 1360, 1370, 1380, 1390, 1450, 1460, 1470 and 1480. An audition may be required for specific ensembles. Students may repeat any performance ensemble classes for elective credit in this degree program.

Students may use MUSC 1712, 1715, 1722, 1725, 1732, 1735, 1742,1745, 1752, 1755, 1762, 1765, 2712, 2715, 2722, 2725, 2732, 2735, 2742, 2745, 2752, 2755, 2762, or 2765 to complete any elective credits for private vocal or instrumental lesson instruction. Students must pass a proficiency jury to advance to the second year (2000) level of private applied instruction. These courses may be repeated for elective credit in this degree program.

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
MUSC 0990	0	PHYS 1010	3
MUSC 1110	3	MUSC 0990	0
MUSC 1130	1	MUSC 1120	3
MUSC 1200	1	MUSC 1140	1
MUSC 1300	1	MUSC 1530	3
MUSC 1515	3	MUSC 1560	3
MUSC 1520	3	DISTRIBUTION	3
ENSEMBLE	1	ENGL 1010	3
QS	4	ENSEMBLE	1
Total	**17**	**Total**	**17**

FALL SEMESTER		**SPRING SEMESTER**	
MUSC 0990	0	MUSC 0990	0
MUSC 1550	3	MUSC 2500	4
MUSC 2500	4	ELEC	2-3
ELEC	2-3	ELEC	2-3
ELEC	2-3	HR	3
DISTRIBUTION	3	CM	3
DISTRIBUTION	3		
Total	**17-19**	**Total**	**14-16**

Advising Notes: It is recommended that students complete their distribution requirements by taking MUSC 1500 Music and Technology (which meets the Interdisciplinary distribution requirement) and one of the following: MUSC 1010 Introduction to Music, MUSC 1030 Survey of Jazz or MUSC 1040 U.S. Music & Culture (each of which meets the Fine Arts distribution requirement). It is the student's responsibility to examine each course description for details of prerequisites for each class. Those prerequisites must be satisfied before the designated class may be taken.

MIDI – CERTIFICATE OF PROFICIENCY[CTE] 21 credits minimum

Communication and Performing Arts Department
South City Campus
General Information, (801) 957-4073
Program Information, (801) 957-4130
www.slcc.edu/performingarts
Academic Advisor, Cindy Clark, SCC,1.061.ME, (801) 957-3361
Academic Advisor, Gordon Storrs SCC 1.061.MD, (801) 957- 3361

Program Faculty:
Associate Professors – Lyle Archibald, Thomas Baggaley
Assistant Professors – Craig Ferrin
Instructors – Stephen Sue

Program Description: The MIDI Certificate of Proficiency is part of the Music program's participation in the college-wide "stackable credentials" initiative to create certificates that reflect student achievement even when students have not completed an entire degree program. This certificate represents the MIDI-only portion of a proposed Media Music AAS degree and represents proficiency working with electronic instruments and the MIDI-based components of music technology-based software applications (specifically digital audio workstations).

Career Opportunities: Students completing the certificate program will have received training that will help to prepare them to work as a freelance composer, songwriter and/or arranger. Students may also find work in a recording studio, working as a studio musician developing MIDI-based recordings to combine with acoustic elements of digital recording. Additional freelance work may be found in the related fields of sound design/synthesis and digital audio recording engineering (although the Recording Engineering Certificate is designed to give more specialized training in the audio recording area).

Total Program/Course Fees: In addition to tuition, students will need to purchase $150-$200 worth of books while completing the specified courses

Estimated Cost for Students: While not required for completion of the program, any professional musician using MIDI will need to buy equipment for his own MIDI studio eventually. The estimated minimal costs for such equipment and related software is at least $3,000 (and will grow from there as they acquire more equipment over time). Ownership of this equipment as a student would be helpful to the student's success but is not required as all of the required equipment is available for use in on-campus computer labs.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will demonstrate the ability to use MIDI based equipment to create recordings of electronic music and professional-quality mock-ups of acoustic instrumental music.	1, 4, 7
Students will demonstrate the ability to work in a collaborative team environment on professional-quality music projects for both musical and non-musical clients.	1, 2, 4, 6

Specialization - Students will demonstrate the development of professional-quality specialization within the field of music composition and production.	1, 2, 4
Students will demonstrate the appropriate entrepreneurial skills necessary for a freelance artist including but not limited to portfolio development, networking, promotion/marketing and basic business accounting.	1, 4

REQUIRED COURSES: (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MUSC 1300	Money & Creative Prof	1	F, Sp	
MUSC 1520	Intro MIDI/Elec Mus Comp	3	F, Sp	
MUSC 1540	MIDI II/Media Musc Comp	3	Sp,Su	MUSC 1520
Two semesters of:				
MUSC 2500	Music Production Group	4	F, Sp	MUSC 1060 w/C grade or better, MUSC 1530 or 1540, or instructor permission

ELECTIVES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
MUSC 1050	Songwriting I	2	F, Sp	
MUSC 1060	Songwriting II	2	Sp, Su	MUSC 1050 w/ C grade or better or instructor approval
MUSC 1400	Copyrights For Creative Professionals	1		
MUSC 1420	Sales Promo For Creative Professionals	2		
MUSC 1440	Build Creative Business	2		
MUSC 1510	Desktop Music Publishing	3	F	MUSC 1100 or equivalent proficiency (ability to read music notation) or MUSC 1100 taken concurrently
MUSC 1515	Basic Audio Production	3	F, Sp	
MUSC 1530	Music Recording Tech	3	Sp	MUSC/COMM/FLM/THEA 1515 w/C grade or better or instructor approval
MUSC 1550	Musical Acoustics	3	F, Sp	Math proficiency usually demonstrated by successful completion of the QL or QS Gen Ed requirement (knowledge of Algebra and Geometry)
MUSC 1560	Music Mixing Techniques	3	Sp, Su	Prereq: MUSC/COMM/FLM/THEA 1515 w/ C grade or better or instructor approval
MUSC 2510	Music Composition for Games and Interactive Media	3	Sp	MUSC 1540 or MUSC 1120 w/C grade or better or instructor approval
MUSC 2520	Music Scoring for Film	3	F	MUSC 1540 or MUSC 1120 w/C grade or better or instructor approval.
MUSC 2550	Music Internship	1-3	A	Instructor approval and second year status in the Music Recording Technology or Media Music programs

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
MUSC 1520	3	MUSC 1540	3
MUSC 1300	1		
Total	**4**	**Total**	**3**
FALL SEMESTER		**SPRING SEMESTER**	
MUSC 2500	4	MUSC 2500	4
ELEC	3	ELEC	3
Total	**7**	**Total**	**7**

MUSIC RECORDING TECHNOLOGY – CERTIFICATE OF PROFICIENCY[CTE] 24 credits minimum

Communication and Performing Arts Department
South City Campus
General Information, (801) 957-4073
Program Information, (801) 957-4130
www.slcc.edu/performingarts
Academic Advisor, SCC Cindy Clark, 1.061.ME, (801) 957-3361
Academic Advisor, SCC Gordon Storrs, 1.061.MD, (801) 957-3361

Program Faculty:
Associate Professors – Lyle Archibald, Thomas Baggaley
Assistant Professors – Craig Ferrin
Instructors – Stephen Sue

Program Description: This certificate program is part of the music program's participation in the college-wide "stackable credentials" initiative to create certificates that reflect student achievement even when students have not completed an entire degree program. This certificate represents the recording technology-only portion of a proposed Music Recording Technology AAS degree (meaning this certificate requires no additional musical training such as theory and no GE requirements that would be included in the AAS degree). The certificate represents proficiency working with digital audio recording equipment and related software applications (specifically digital audio workstations).

Career Opportunities: Students completing the certificate program will have received training that will help to prepare them to work as a recording engineer in a music recording studio and for freelance work as a sound designer for live concert productions. Students may also find freelance work in the allied fields of sound design/synthesis, film sound, songwriting, composition and arranging, although this certificate will not prepare them specifically for those jobs.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Students will demonstrate the ability to work on all aspects of a music recording project, both recorded in a live performance setting and recorded in a controlled studio setting. These aspects include but are not limited to microphone placement, live sound mixing, tracking and final recording mixing and mastering.	1, 4, 6, 7
Students will demonstrate an understanding of the mathematics and science associated with basic electronics and instrumentation technology.	1, 3, 7
Students will demonstrate an understanding of the mathematics and science associate with musical acoustics, especially as they relate to recording situations including but not limited to studio design, the acoustics of instruments and sound production and performance space acoustics that might affect live audio production.	1, 3
Students will demonstrate the ability to work in a collaborative team environment on professional-quality music projects for both musical and non-musical clients.	1, 2, 4, 6

Students will demonstrate the appropriate entrepreneurial skills necessary for a freelance artist including but not limited to portfolio development, networking, promotion/marketing and basic business accounting.	1, 4

REQUIRED COURSES: (24 CREDITS)

COURSE		CR	SEM	PREREQUISITE
MUSC 1300	Money & Creative Prof	1	F, Sp	
MUSC 1515	Basic Audio Production	3	A	
MUSC 1520	Intro to MIDI/Elec Mus Comp	3	F, Sp	
MUSC 1530	Music Recording Tech	3	Sp	MUSC/COMM/FLM/THEA 1515 w/C grade or better or instructor approval
MUSC 1550	Musical Acoustics	3	F, Sp	Math proficiency usually demonstrated by successful completion of the QL or QS Gen Ed requirement (knowledge of Algebra and Geometry)
PHYS 1010	Elementary Physics (PS)	3	F, Sp	
Two semesters of:				
MUSC 2500	Music Production Group	4	F, Sp	MUSC 1060, 1530 or 1540 w/C grade or better or instructor approval

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
PHYS 1010	3	MUSC 1530	3
MUSC 1510	3	MUSC 1520	3
MUSC 1300	1		
Total	**7**	**Total**	**6**
FALL SEMESTER		**SPRING SEMESTER**	
MUSC 2500	4	MUSC 2500	4
MUSC 1550	3		
Total	**7**	**Total**	**4**

NON-DESTRUCTIVE TESTING – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 65 credits minimum

Aerospace/Aviation and Related Technologies Division
Westpointe Center
General Information, (801) 957-4073
Program Information, (801) 957-2153
www.slcc.edu/nondestructive
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Instructors – Mark J Sabolik

Program Description: The non-destructive testing program offers students the opportunity for a career in a progressive new field with many diverse job opportunities and excellent entry-level salaries.

Non-destructive testing involves the examination of an object in any manner that will not impair its future usefulness. The six major NDT methods, radiography, ultrasonics, eddy current, magnetic particle, liquid penetrant and visual inspection, are used in a variety of industries including aerospace, petro-chemical, automotive, metals, non-metals, nuclear, marine, electronics, construction, aircraft, materials joining, utilities and many others. Students learn to perform the basic testing techniques on both metals and non-metals, such as synthetics and composites, as well as how to evaluate results and write final reports. Learning will be enhanced through field trips to area businesses and presentations by guest speakers.

During the first two semesters in NDT, the training will focus on basic manufacturing and materials-joining processes, including visual inspection, magnetic particles and liquid penetrant techniques. The third and fourth semesters will include eddy current, radiography and ultrasonics. The third and fourth semesters are dedicated to advanced study of these testing methods as well as computer application in NDT.

Career Opportunities: Currently the job market for NDT technicians is excellent. Employment can be obtained in a variety of industries. Because each testing method is unique, a technician can specialize in a specific method or work using all testing methods. Jobs are available both in-state and out-of-state. Technicians can work part time or full time depending on the type of work available. When you graduate you have met the requirements of a Level II technician. You will need to obtain on-the-job work experience in order to fulfill the hours required to become certified in each NDT method. These hours will vary depending on the method.

Level I - $12 to 17 per hour
Level II - $17 to $30 per hour
Level III - $25 to $75 per hour

Many Level IIIs work in research & development, as supervisors or develop and write procedures.

Transfer/Articulation Information: Students who earn an AAS degree in Non-Destructive Testing Technology have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: Students may start this program Fall or Spring semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: $60.00

Estimated Cost for Students:

Tuition per semester: www.slcc.edu/students-future/tuition-fees
Books and Supplies: $350

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Students will demonstrate knowledge to pass a general, specific, and practical examination meeting ASNT-TC-1A standards	1 – Substantive Knowledge
Students will demonstrate effective oral communication with proper Nondestructive Testing terminology.	2 – Communicate Effectively
Students will be able to apply reasoning and interpret information represented on data, graphs, and/or tables used in Nondestructive Testing.	3 – Develop Quantitative Literacies
Students will be able to apply Nondestructive Testing knowledge to effectively utilize problem solving skills as it relates to the operation of equipment used in industry.	4 – Think Critically
Students will be able to engage and interact as a team in a learning environment to develop skills which relate to the safe operation in the Nondestructive Testing industry standards.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900; within the past year, MATH 0990 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1030	Quant Reasoning	3	A	Within the past year, MATH 1010 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effect Comm	3	A	

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relat-Career Dev	3	A	

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (50 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade
NDT 1110	Intro to NDT	3	TBA	
NDT 1114	Ultrasonics I	3	TBA	Coreq: NDT 1115
NDT 1115	Ultrasonics I Lab	1	TBA	Coreq: NDT 1114
NDT 1120	Magnetic Particle	2	TBA	Coreq: NDT 1121
NDT 1121	Magnetic Particle Lab	1	TBA	Coreq: NDT 1120
NDT 1122	Eddy Current I	3	TBA	Coreq: NDT 1123
NDT 1123	Eddy Current I Lab	1	TBA	Coreq: NDT 1122
NDT 1130	Radiation Safety	3	TBA	
NDT 1132	Radiography I	3	TBA	NDT 1130 Coreq: NDT 1133

NDT 1133	Radiography I Lab	1	TBA	Coreq: NDT 1132
NDT 1210	Liquid Penetrant	2	TBA	Coreq: NDT 1211
NDT 1211	Liquid Penetrant Lab	1	TBA	Coreq: NDT 1210
NDT 1213	Ultrasonics II	3	TBA	Coreq: NDT 1210
NDT 1214	Ultrasonics II Lab	1	TBA	Coreq: NDT 1213
NDT 1222	Eddy Current II	3	TBA	NDT 1122 and NDT 1123 Coreq: NDT 1223
NDT 1223	Eddy Current II Lab	1	TBA	Coreq: NDT 1222
NDT 1230	Codes & Proced	2	TBA	Instructor approval
NDT 1232	Radiography II	3	TBA	NDT 1132 and NDT 1133 Coreq: NDT 1233
NDT 1233	Radiography II Lab	1	TBA	Coreq: NDT 1232
NDT 1234	Adv NDT Concepts	3	TBA	Instructor approval
WLD 1005	Related Welding	3	A	
WLD 1260	Blueprnt Welding	3	F	

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
NDT 1110	3	NDT 1122	3
NDT 1114	3	NDT 1123	1
NDT 1115	1	NDT 1130	3
NDT 1120	2	NDT 1132	3
NDT 1121	1	NDT 1133	1
COMM 1010	3	ENGL 1010	3
LE 1220	3	MATH 1120/1030	3-4
Total	**16**	**Total**	**17-18**

FALL SEMESTER		**SPRING SEMESTER**	
NDT 1210	2	NDT 1222	3
NDT 1211	1	NDT 1223	1
NDT 1213	3	NDT 1232	3
NDT 1214	1	NDT 1233	1
NDT 1230	2	NDT 1234	3
WLD 1005	3	DISTRIBUTION	3
WLD 1260	3		
ENGL 2100	3		
Total	**18**	**Total**	**14**

Advising Notes: Students will need basic reading and math skills. Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

NON DESTRUCTIVE TESTING-EDDY CURRENT – CERTIFICATE OF COMPLETION[CTE] 32 credits minimum

Aerospace/Aviation and Related Technologies Division
Westpointe Center
General Information: (801) 957-4073
Program Information: (801) 957-5853
http://www.slcc.edu/nondestructive
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Instructor – Mark J. Sabolik

Program Description: The non-destructive testing program offers students the opportunity for a career in a progressive new field with many diverse job opportunities and excellent entry-level salaries.
Non-destructive testing involves the examination of an object in any manner that will not impair its future usefulness. Eddy current, magnetic particle, and liquid penetrant, are used in a variety of industries including aerospace, petro-chemical, automotive, metals, non-metals, nuclear, marine, electronics, construction, aircraft, materials joining, utilities and many others. Students learn to perform the basic testing techniques on both metals and non-metals, such as synthetics and composites, as well as how to evaluate results and write final reports. Learning will be enhanced through field trips to area businesses and presentations by guest speakers.

Certification of completion will focus on basic manufacturing and materials-joining processes, including visual inspection, magnetic particles, liquid penetrant, and eddy current techniques.

Career Opportunities: Currently the job market for NDT technicians is excellent. Employment can be obtained in a variety of industries. Because each testing method is unique, a technician can specialize in a specific method or work using all testing methods. Jobs are available both in-state and out-of-state. Technicians can work part time or full time depending on the type of work available. When you graduate you have met the requirements of a Level II technician. You will need to obtain on-the-job work experience in order to fulfill the hours required to become certified in each NDT method. These hours will vary depending on the method.

Level I - $12 to $15 per hour
Level II - $15 to $25 per hour
Level III - $20 to $75 per hour

Many Level IIIs work in research & development, as supervisors or develop and write procedures.

Transfer/Articulation Information: Certificate requirements may be used for completion of training in accordance with ASNT-TC-1A criteria. Certificate requirements may also be used as credit toward entry-level requirements for Non Destructive Testing AAS Degree.

Program Entry Requirements: Students may start this program Fall or Spring semester. For information on getting started, please visit http://www.slcc.edu/gettingstarted/index.asp

Total Program/Course Fees: $60.00

Estimated Cost for Students:
Tuition per semester: http://www.slcc.edu/cashiering/tuitionfees.asp
Books and Supplies: $350

Estimated Time to Completion: If students follow suggested sample schedule completion time is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1.1 General Education 1. Basic communication 2. Writing 3. Human Relations 4. General Education Distribution 5. Quantitative literacy	1,2,3,4 and 5
2.1 At the completion of each NDT method students will demonstrate knowledge to pass a general theory examination meeting ASNT-TC-1A standards.	1 and 4
2.2 On completion of each NDT method students will be giving a specific exam covering codes and regulations examination meeting ASNT-TC-1A standards.	1,3 and 5
2.3 Student will perform practical hands on examination demonstrating proper use of theory and equipment to all ASNT-TC-1A standards.	1,2,3,4 and 5
3.1 Students will perform a number of inspections on various types of components.	1,2,3,4 an 5
4.1 Students will be able to apply reasoning and interpret information represented on data, graphs, and/or tables used in Nondestructive Testing	3 and 4

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within the past year, MATH 0990 w/C grade or better or appropriate Accuplacer score
OR				
IND 1120	Math for Industry	3	A	MATH 0900

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM courses			

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations-Career Dev	3	A	

NOTE: Students who may want to pursue an AAS degree in the future should take an approved Composition (En) course

GENERAL EDUCATION DISTRIBUTION AREAS: 3-4 CREDITS

Choose an additional three credits from one of the following distribution areas.

COURSE		CR	SEM	PREREQUISITE
	Biological Science (BS)	3-4		
	Composition (EN)	3-4		
	Humanities (HU)	3		
	Interdisciplinary (ID)	3		
	Physical Science (PS)	3		
	Social Science (SS)	3		

REQUIRED COURSES: 20-23 CREDITS

COURSE		CR	SEM	PREREQUISITE
NDT 1110	Intro to NDT	3	TBA	
NDT 1120	Magnetic Particle	2	TBA	Coreq :NDT 1121
NDT 1121	Magnetic Particle Lab	1	TBA	Correq: NDT 1120
NDT 1210	Liquid Penetrant	2	TBA	Correq: NDT 1211
NDT 1211	Liquid Penetrant	1	TBA	Correq: NDT 1210
NDT 1122	Eddy Current I	3	TBA	Coreq: NDT 1123
NDT 1123	Eddy Current I Lab	1	TBA	Coreq: NDT 1122
NDT 1222	Eddy Current II	3	TBA	Coreq: NDT 1223
NDT 1223	Eddy Current II Lab	1	TBA	Coreq: NDT 1222
	Elective Course	3	A	

ELECTIVE COURSES: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
WLD 1260	Blueprint Welding	3	A	
EDDT 1040	Intro to AUTOCAD	3	A	

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
NDT 1110	3	NDT 1122	3
NDT 1120	2	NDT 1123	1
NDT 1121	1	NDT 1222	3
NDT 1210	2	NDT 1223	1
NDT 1211	1	COMM ____	3
WLD 1260	3	LE 1220	3
MATH 1010	4	DISTRIBUTION	3-4
Total	**16**	**Total**	**17-18**

Advising Notes:

-Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended

-It is the student's responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-2153.

NON DESTRUCTIVE TESTING-RADIOGRAPHY – CERTIFICATE OF COMPLETION[CTE] 35 credits minimum

Aerospace/Aviation and Related Technologies Division
Westpointe Center
General Information: (801) 957-4073
Program Information: (801) 957-5853
http://www.slcc.edu/nondestructive
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Instructor – Mark J. Sabolik

Program Description: The non-destructive testing program offers students the opportunity for a career in a progressive new field with many diverse job opportunities and excellent entry-level salaries.
Non-destructive testing involves the examination of an object in any manner that will not impair its future usefulness. Radiography, magnetic particle, and liquid penetrant, are used in a variety of industries including aerospace, petro-chemical, automotive, metals, non-metals, nuclear, marine, electronics, construction, aircraft, materials joining, utilities and many others. Students learn to perform the basic testing techniques on both metals and non-metals, such as synthetics and composites, as well as how to evaluate results and write final reports. Learning will be enhanced through field trips to area businesses and presentations by guest speakers.

Certification of completion will focus on basic manufacturing and materials-joining processes, including visual inspection, magnetic particles, liquid penetrant, radiation safety, and radiography techniques.

Career Opportunities: Currently the job market for NDT technicians is excellent. Employment can be obtained in a variety of industries. Because each testing method is unique, a technician can specialize in a specific method or work using all testing methods. Jobs are available both in-state and out-of-state. Technicians can work part time or full time depending on the type of work available. When you graduate you have met the requirements of a Level II technician. You will need to obtain on-the-job work experience in order to fulfill the hours required to become certified in each NDT method. These hours will vary depending on the method.

Level I - $12 to $15 per hour
Level II - $15 to $25 per hour
Level III - $20 to $75 per hour

Many Level IIIs work in research & development, as supervisors or develop and write procedures.

Transfer/Articulation Information: Certificate requirements may be used for completion of training in accordance with ASNT-TC-1A criteria. Certificate requirements may also be used as credit toward entry-level requirements for Non Destructive Testing AAS Degree.

Program Entry Requirements: Minimum age for students to apply for radiography classes is 18 years old. Students may start this program Fall or Spring semester. For information on getting started, please visit
http://www.slcc.edu/gettingstarted/index.asp

Total Program/Course Fees: $60.00

Estimated Cost for Students:
Tuition per semester: http://www.slcc.edu/cashiering/tuitionfees.asp
Books and Supplies: $350

Estimated Time to Completion: If students follow suggested sample schedule completion time is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1.1 General Education 1. Basic communication 2. Writing 3. Human Relations 4. General Education Distribution 5. Quantitative literacy	1,2,3,4 and 5
2.1 At the completion of each NDT method students will demonstrate knowledge to pass a general theory examination meeting ASNT-TC-1A standards.	1 and 4
2.2 On completion of each NDT method students will be giving a specific exam covering codes and regulations examination meeting ASNT-TC-1A standards.	1,3 and 5
2.3 Student will perform practical hands on examination demonstrating proper use of theory and equipment to all ASNT-TC-1A standards.	1,2,3,4 and 5
3.1 Students will perform a number of inspections on various types of components.	1,2,3,4 an 5
4.1 Students will be able to apply reasoning and interpret information represented on data, graphs, and/or tables used in Nondestructive Testing	3 and 4

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within the past year, MATH 0990 w/C grade or better or appropriate Accuplacer score
OR				
IND 1120	Math for Industry	3	A	MATH 0900

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM courses			

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations-Career Dev	3	A	

GENERAL EDUCATION DISTRIBUTION AREAS: 3-4 CREDITS

Choose an additional three credits from one of the following distribution areas.

COURSE		CR	SEM	PREREQUISITE
	Biological Science (BS)	3-4		
	Composition (EN)	3-4		
	Humanities (HU)	3		
	Interdisciplinary (ID)	3		
	Physical Science (PS)	3		
	Social Science (SS)	3		

REQUIRED COURSES: 20-23 CREDITS

COURSE		CR	SEM	PREREQUISITE
NDT 1110	Intro to NDT	3	TBA	
NDT 1120	Magnetic Particle	2	TBA	Coreq :NDT 1121
NDT 1121	Magnetic Particle Lab	1	TBA	Correq: NDT 1120
NDT 1210	Liquid Penetrant	2	TBA	Correq: NDT 1211
NDT 1211	Liquid Penetrant	1	TBA	Correq: NDT 1210
NDT 1130	Radiation Safety	3	TBA	MATH 1010 or IND 1120
NDT 1132	Radiography I	3	TBA	Coreq: NDT 1133
NDT 1133	Radiography I Lab	1	TBA	Coreq: NDT 1132
NDT 1232	Radiography II	3	TBA	Coreq: NDT 1233
NDT 1233	Radiography II Lab	1	TBA	Coreq: NDT1232
	Elective Course	3	A	

ELECTIVE COURSES: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
WLD 1260	Blueprint Welding	3	A	
EDDT 1040	Intro to AUTOCAD	3	A	

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
NDT 1110	3	NDT 1130	3
NDT 1120	2	NDT 1132	3
NDT 1121	1	NDT 1133	1
NDT 1210	2	NDT 1232	3
NDT 1211	1	NDT 1233	1
WLD 1260	3	LE 1220	3
IND 1120	3	DISTRIBUTION	3-4
COMM ____	3		
Total	**18**	**Total**	**17-18**

Advising Notes:

-Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended

-It is the student's responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-2153.

NON DESTRUCTIVE TESTING-ULTRASONICS – CERTIFICATE OF COMPLETION[CTE] 32 credits minimum

Aerospace/Aviation and Related Technologies Division
Westpointe Center
General Information: (801) 957-4073
Program Information: (801) 957-5853
http://www.slcc.edu/nondestructive
Academic Advisor: Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Instructor – Mark J. Sabolik

Program Description: The non-destructive testing program offers students the opportunity for a career in a progressive new field with many diverse job opportunities and excellent entry-level salaries.
Non-destructive testing involves the examination of an object in any manner that will not impair its future usefulness. Ultrasonics, magnetic particle, liquid penetrant and visual inspection, are used in a variety of industries including aerospace, petro-chemical, automotive, metals, non-metals, nuclear, marine, electronics, construction, aircraft, materials joining, utilities and many others. Students learn to perform the basic testing techniques on both metals and non-metals, such as synthetics and composites, as well as how to evaluate results and write final reports. Learning will be enhanced through field trips to area businesses and presentations by guest speakers.

Certification of completion will focus on basic manufacturing and materials-joining processes, including visual inspection, magnetic particles, liquid penetrant,, and ultrasonics techniques

Career Opportunities: **:** Currently the job market for NDT technicians is excellent. Employment can be obtained in a variety of industries. Because each testing method is unique, a technician can specialize in a specific method or work using all testing methods. Jobs are available both in-state and out-of-state. Technicians can work part time or full time depending on the type of work available. When you graduate you have met the requirements of a Level II technician. You will need to obtain on-the-job work experience in order to fulfill the hours required to become certified in each NDT method. These hours will vary depending on the method.

Level I - $12 to $15 per hour
Level II - $15 to $25 per hour
Level III - $20 to $75 per hour

Many Level IIIs work in research & development, as supervisors or develop and write procedures.

Transfer/Articulation Information: Certificate requirements may be used for completion of training in accordance with ASNT-TC-1A criteria. Certificate requirements may also be used as credit toward entry-level requirements for Non Destructive Testing AAS Degree.

Program Entry Requirements: Students may start this program Fall or Spring semester. For information on getting started, please visit http://www.slcc.edu/gettingstarted/index.asp

Total Program/Course Fees: $60.00

Estimated Cost for Students:
Tuition per semester: http://www.slcc.edu/cashiering/tuitionfees.asp
Books and Supplies: $350

Estimated Time to Completion: If students follow suggested sample schedule completion time is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacies 4 – Think Critically 5 – Civic Engagement and/or Working Professionally
1.1 General Education 1. Basic communication 2. Writing 3. Human Relations 4. General Education Distribution 5. Quantitative literacy	1,2,3,4 and 5
2.1 At the completion of each NDT method students will demonstrate knowledge to pass a general theory examination meeting ASNT-TC-1A standards.	1 and 4
2.2 On completion of each NDT method students will be giving a specific exam covering codes and regulations examination meeting ASNT-TC-1A standards.	1,3 and 5
2.3 Student will perform practical hands on examination demonstrating proper use of theory and equipment to all ASNT-TC-1A standards.	1,2,3,4 and 5
3.1 Students will perform a number of inspections on various types of components.	1,2,3,4 an 5
4.1 Students will be able to apply reasoning and interpret information represented on data, graphs, and/or tables used in Nondestructive Testing	3 and 4

GENERAL EDUCATION REQUIREMENTS

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within the past year, MATH 0990 w/C grade or better or appropriate Accuplacer score
OR				
IND 1120	Math for Industry	3	A	MATH 0900

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM courses			

HUMAN RELATIONS (HR) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations-Career Dev	3	A	

NOTE: Students who may want to pursue an AAS degree in the future should take an approved Composition (En) course

GENERAL EDUCATION DISTRIBUTION AREAS: 3-4 CREDITS

Choose an additional three credits from one of the following distribution areas.

COURSE		CR	SEM	PREREQUISITE
	Biological Science (BS)	3-4		
	Composition (EN)	3-4		
	Humanities (HU)	3		
	Interdisciplinary (ID)	3		
	Physical Science (PS)	3		
	Social Science (SS)	3		

REQUIRED COURSES: 20-23 CREDITS

COURSE		CR	SEM	PREREQUISITE
NDT 1110	Intro to NDT	3	TBA	
NDT 1120	Magnetic Particle	2	TBA	Coreq :NDT 1121
NDT 1121	Magnetic Particle Lab	1	TBA	Correq: NDT 1120
NDT 1210	Liquid Penetrant	2	TBA	Correq: NDT 1211
NDT 1211	Liquid Penetrant	1	TBA	Correq: NDT 1210
NDT 1114	Ultrasonics I	3	TBA	Coreq: NDT 1115
NDT 1115	Ultrasonics I Lab	1	TBA	Coreq: NDT 1114
NDT 1213	Ultrasonics II	3	TBA	Coreq: NDT 1214
NDT 1214	Ultrasonics II Lab	1	TBA	Coreq: NDT 1213
	Elective Course	3	A	

ELECTIVE COURSES: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
WLD 1260	Blueprint Welding	3	A	
EDDT 1040	Intro to AUTOCAD	3	A	

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
NDT 1110	3	NDT 1114	3
NDT 1120	2	NDT 1115	1
NDT 1121	1	NDT 1213	3
NDT 1210	2	NDT 1214	1
NDT 1211	1	COMM ____	3
WLD 1260	3	LE 1220	3
MATH 1010	4	DISTRIBUTION	3-4
Total	**16**	**Total**	**17-18**

Advising Notes:

-Students who need to take preparatory classes prior to entering the program should plan extra time to compete the program. High school curriculum in math, science and communication is recommended

-It is the student's responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-2153.

NURSING - ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 71 credits minimum

Nursing Division
Jordan Campus General Information, (801) 957-4073
Division Office, (801) 957-6260
http://www.slcc.edu/nursing
Academic Advising, JHS 047, (801) 957- 6215
Health Science Admissions, JHS 047, (801) 957-6363

Program Faculty:
Professors – Georgia Anderson, Susan Labasky, Barbara Stencel
Associate Professors – Beverly Anderson, Jennie Barnes, Andrea Crittenden, Kim Dumas, Diane Moss, Donna Murphy, Sarah Pacheco, Russell Shipley
Assistant Professors– Jololene Allan, Betsy Christopher, Debora Jackson, Jane Jensen, Kathleen Jewkes, Lori Norton, Julie Rowsey, Deborah Smith,
Instructors – Kathy Buhler, Elizabeth Crowther, Marina Torres

Program Description: The nursing program is a two-year curriculum. Successful completion entitles the student to an Associate of Applied Science Degree (AAS). Completing the Associate of Science Degree (AS) requirements outlined under HEALTH SCIENCES will help position the students to transfer to a four-year institution for completion of a Bachelor of Science degree in Nursing.

Specialized Accreditation: The Salt Lake Community College Associate of Applied Science degree is approved by the Utah State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing, INC., ACEN, 3343 Peachtree Rd. NE, Suite 850, Atlanta, GA 30326, Phone (404) 975-5000. www.acenusing.org

The program provides both general and technical education for all nursing students, including practical nurses to earn an Associate of Applied Science Degree in Registered Nursing.

Specific information will be given to accepted students by program faculty regarding testing sites that have been approved by SLCC for both drug-screening test and criminal background check. The expenses of these requirements are additional student costs.

The clinical placement agencies make the final determination about accepting students for placement in their facility, and may decline to have students placed at their facility, based on the criminal background record of the student. The latter may cause the student not to be able to complete all of the program requirements.

In addition, if the criminal background check discloses issues of concern it will be the responsibility of the student to contact the licensing agency and seek advice regarding eligibility for licensure and requirements needed to progress in this profession.

For students who choose to complete their LPN licensure, the Program offers an LPN transition course (NSG 1800/1805) at the completion of the first year.

The nursing program faculty believe that didactic and clinical are integrated. The didactic informs clinical practice and clinical practice informs the didactic for corresponding courses. Therefore, any student failing clinical will receive no better than a "C" grade in the corresponding didactic course. Any student earning below a "C+" in didactic will receive no better than a "C" grade in the corresponding clinical course. In the event that either didactic or clinical are not passed with a "C+" or better, both corresponding didactic and clinical courses will have to be repeated concurrently.

Students accepted into the nursing program must meet the same health and safety requirements as the participating clinical facilities require of their own employees

Program Entry Requirements:

ADMISSION PROCESS
Applicants are admitted into the nursing program without discrimination or harassment based on beliefs, sex, national origin, age, pregnancy, or marital status. Students with disabilities can be admitted to the nursing program if they can meet nursing program performance objectives with reasonable accommodations.

1. Be admitted to SLCC as a matriculated student.
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at : http://www.slcc.edu/transcriptevaluation/. This process may take 4-6 weeks and must be completed before a student's application will be considered.
5. Program course prerequisites are as follows (all must be completed with a C or better):
   a. MATH 1040: Intro to Statistics (QL)
      Or
      MATH 1050: College Algebra (QL)
   b. BIOL 1610/1615: College Biology I and Lab (BS)
   c. BIOL 2320/2325: Human Anatomy and Lab (BS)
   d. BIOL 2420/2425: Human Physiology and Lab (BS)
   e. CHEM 1110/1115: Elementary Chemistry and Lab(BS)
6. Submit completed application and required documentation to the Health Sciences Admissions Office. For specific information regarding admission requirements, please go to the website at http://www.slcc.edu/nursing/future-nursing-students.aspx
7. Required support courses (these courses are not required upon application, but must be completed before the start of the 3rd semester of the SLCC Nursing Program with a C or better). Students are strongly encouraged to complete these courses prior to starting any technical coursework:
   a. ENGL 1010: Introduction to Writing (EN)
   b. HLTH 1020: Foundations of Nutrition
   c. PSY 1100: Human Growth and Development(SS)
      or
      FHS 1500: Life Span Human Development (SS)

ADMISSIONS PREREQUISITES

The following courses must be completed before beginning the nursing program. Courses must be completed with a C grade or better.

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I(BS)	4	A	MATH 0990 or MATH 1020 w/C grade or better or appropriate Accuplacer score AND RDG 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab(BS)	0	A	Coreq: BIOL 1610
BIOL 2320	Human Anatomy(BS)	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab(BS)	0	A	Coreq: BIOL 2320
BIOL 2420	Human Physiology(BS)	4	A	BIOL 1610 w/C grade or better AND CHEM 1110. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab(BS)	0	A	Coreq: BIOL 2420
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; MATH 1010 w/C grade or better or appropriate Accuplacer score
Or				
MATH 1050	MATH 1050: College Algebra (QL)	4	A	RDG 0990; MATH 1010 w/C grade or better or appropriate Accuplacer score
CHEM 1110	Elem Chemistry	4	F, Sp	MATH 1010 or appropriate Accuplacer score. Recommended Coreq: CHEM 1115
CHEM 1115	Elem Chemistry Lab	1	F, Sp	MATH 1010 or appropriate Accuplacer score. Recommended Coreq: CHEM 1110

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively

	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
1. Student recognizes the patient or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for patient's preferences, values, and needs.	1,2,4,5,6,7
2. Student functions effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care.	1,2,4,5,6,7
3. Student integrates best current evidence in clinical practice using patient/family preferences and values for delivery of optimal health care.	1,2,3,4,6,7
4. Student uses data to monitor the outcomes of care processes and use improvement methods to continuously improve the quality and safety of health care systems.	1,2,3,4,5,6,7
5. Student minimizes risk of harm to patients and providers through both system effectiveness and individual performance.	1,2,3,4,7
6. Student uses information and technology to communicate, manage knowledge, mitigate error, and support decision making.	1,2,3,4,7

COMMUNICATION (CM)

The philosophy of the Nursing Program contains communication as a curriculum thread. Courses integrate communication into content presented in the classroom and clinical settings. Students learn basic communication skills in the beginning level courses. Additional content is added with each course, including group dynamics, group communication, therapeutic and non-therapeutic patterns of communication.

HUMAN RELATIONS (HR)

Human Relations training is embedded within the Nursing curriculum. Human needs and interpersonal relationships are constant with each patient/nurse relationship and are threaded throughout the nursing curriculum.

DISTRIBUTION AREAS

Required distribution credits are fulfilled by completing courses required throughout the Nursing curriculum.

REQUIRED COURSES: (52 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
HLTH 1020	Foundations of Nutrition	3	A	
PSY 1100	Human Growth/Dev (SS)	3	A	
OR				
FHS 1500	Life Span Human Dev (SS)	3	A	
NSG 1200	Pharmacology I	2	F, Sp *(Su)	Completion of Nursing Program prerequisite courses and admission to the program per established curriculum plan
NSG 1300	Fundamentals of NSG	4	F, Sp *(Su)	Completion of Nursing Program prerequisite courses and admission to the program per established curriculum plan. Coreq: 1305
NSG 1305	Fundamentals of NSG Clinical	2	F, Sp *(Su)	Completion of Nursing Program prerequisite courses and admission to the program per established curriculum plan. Coreq: 1300
NSG 1400	Maternal/Newborn	2	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 1405
NSG 1405	Maternal/Newborn Clinical	1	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 1400
NSG 1500	NSG Care of Children	2	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 1505
NSG 1505	NSG Care Children Clinical	0	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 1500

NSG 1700	Med/Surge NSG I	4	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 1705
NSG 1705	Med/Surge NSG I Clinical	2	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 1700
NSG 2200	Med/Surge NSG II	4	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2205
NSG 2205	Med/Surge NSG II Clinical	2	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2200
NSG 2100	Pharmacology II	2	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan.
NSG 2300	Community Nursing	2	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2305
NSG 2305	Community Nurse Experience	0	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2300
NSG 2400	Med/Surg NSG III	3	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2405
NSG 2405	Med/Surg NSG III Simulation	0	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2400
NSG 2500	Nursing Management: A Clinical Synthesis	3	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan.
NSG 2600	Mental Health NSG	2	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2605
NSG 2605	Mental Health NSG Clinical	1	F, Sp *(Su)	Completion of prior semester courses per established curriculum plan. Coreq: NSG 2600
NSG 2900	Pathophysiology	4	F, Sp *(Su)	Completion of Nursing Program prerequisite courses

ELECTIVE COURSES:

COURSE		CR	SEM	PREREQUISITE
NSG 1800	Transition to Prac Nursing	2	F, Sp *(Su)	Completion of first year Nursing
NSG 1805	Transition Pr Nurse Clinical	1	F, Sp *(Su)	Completion of first year Nursing
NSG 1990	Independent Study	1-5	F, Sp	Actively enrolled in the Nursing Program
NSG 2990	Independent Study 2nd yr	1-5	F, Sp	Actively enrolled in the Nursing Program

TRANSTITIONAL COURSE REQUIRED FOR ADVANCED PLACEMENT STUDENTS

COURSE		CR	SEM	PREREQUISITE
NSG 1900	Transition to AS Nursing	1	F, Sp	Completion of first year Nursing

***Nursing classes in the summer are for partnership students only**

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
MATH 1040/1050	3/4	BIOL 2320/2325	4
BIOL 1610/1615	4	CHEM 1110	4
ENGL 1010	3	CHEM 1115	1
Total	**10**	**Total**	**9**
SUMMER SEMESTER			
BIOL 2420/2425	4		
PSY1100 or FHS 1500	3		
HLTH 1020	3		
Total	**10**		
FALL SEMESTER		**SPRING SEMESTER**	

NSG 1300	4	NSG 1400	2
NSG 1305	2	NSG 1405	1
NSG 1200	2	NSG 1500	2
NSG 2900	4	NSG 1505	0
		NSG 1700	4
		NSG 1705	2
Total	**12**	**Total**	**12**
FIRST YEAR NURSING COMPETENCY EXAM			
FALL SEMESTER		**SPRING SEMESTER**	
NSG 2200	4	NSG 2300	2
NSG 2205	2	NSG 2305	0
NSG 2100	2	NSG 2400	3
NSG 2600	2	NSG 2405	0
NSG 2605	1	NSG 2500	3
Total	**11**	**Total**	**8**
SECOND YEAR NURSING COMPETENCY EXAM			

To maintain a position in the program after staring nursing courses, students must be continually enrolled and complete all core nursing courses in sequence, as well as maintain a grade of C+ or better in all courses.

Successful completion of the Competency Exams is a program and graduation requirement.

ADVANCED PLACEMENT ADMISSIONS PROCESS (LPN TO RN)

The program also offers an Advanced Placement option. This is for students who have completed a practical nursing program and are licensed as a practical nurse in Utah. The following admission criteria must be met before the applicant will be accepted into the program.

1. Be admitted to SLCC as a matriculated student.
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Incoming Transcripts
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Incoming Transcript Office. The form is located at http://www.slcc.edu/transcriptevaluation/docs/Transfer_Credits_To_SLCC_Form.pdf This process may take 4-6 weeks and must be completed before a student's application will be considered.
5. All general education and science support classes must have a "C" or better.
6. Complete Pathophysiology (NSG 2900) with at least C+ or better.
7. Copy of current LPN License.
   SLCC retains the right to re-evaluate or retest students coming from non-ACEN accredited programs and nursing programs that differ from SLCC.
8. Submit completed application and required documentation to the Health Sciences Admissions Office. For specific information regarding admission requirements, please go to the website at http://www.slcc.edu/nursing/future-nursing-students.aspx

ADMISSIONS PREREQUISITES

The following courses must be completed before beginning the nursing program. Courses must be completed with a C grade or better.

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I (BS)	4	A	MATH 0900 w/ C grade or better or appropriate Accuplacer score AND RDG 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology I Lab (BS)	0	A	Coreq: BIOL 1610
BIOL 2320	Human Anatomy(BS)	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab (BS)			
BIOL 2420	Human Physiology (BS)	4	A	BIOL 1610 w/C grade or better AND CHEM 1110. Coreq: BIOL

				2425
BIOL 2425	Human Physiology Lab (BS)			
CHEM 1110	Elem Chemistry (BS)	4	F, Sp	MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing). Recommended Coreq: CHEM 1115
CHEM 1115	Elem Chemistry Lab (BS)	1	F, Sp	MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing). Recommended Coreq: CHEM 1110
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
HLTH 1020	Foundations of Nutrition	3	A	
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1050	MATH 1050: College Algebra (QL)	4	A	RDG 0990; MATH 1010 w/C grade or better or appropriate Accuplacer score
PSY 1100	Human Growth/Dev	3	A	
OR				
FHS 1500	Life Span Human Dev	3	A	

Transfer/Articulation Information:

RN-BS: UNIVERSITY OF UTAH
The University of Utah offers a Nursing Bachelor's degree via an internet program for former SLCC students who have completed their Associate of Science in Health Science with an RN emphasis. Students may apply for this option via the U of Utah College of Nursing (CON).

- We strongly encourage interested students to consult with either the SLCC RN program advisor, Deron Hutchinson, at (801) 957-6215 or a University Center academic advisor at (801) 957-4734.
- For further information and requirements see the University Center website at www.slcc.edu/universitycenter

Students who anticipate transferring to a four year institution in pursuit of a (BSN) Bachelors of Science in Nursing should also refer to the Associate of Science degree in Health Sciences w/Nursing Option. These students should also consult with an Academic Advisor for assistance with planning.

OCCUPATIONAL THERAPY ASSISTANT– ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 86 credits minimum

Allied Health Division
Jordan Campus, JCHSC, JHS 044
Program Information, (801) 957-6215
http://www.slcc.edu/ota
Academic Advising, JHS 047, (801) 957-6407
Health Sciences Admissions, JHS 047, (801) 957-6253

Program Faculty:
Professor – Brenda K. Lyman
Instructor – Lyndsay Fait

Program Description: The Program Occupational Therapy is a health profession that provides services to children and adults of all ages whose lives have been disrupted by physical injury or illness, developmental problems, the aging process and/or psychosocial dysfunction. Occupational Therapy Assistants use occupation and purposeful activity with clients/patients to help them reach their maximum level of independence.

Specific tasks may include daily living skill training,
fabrication of adaptive equipment, leading individual and group treatment activities, adapting home environments, ADA architectural accessibility standards, enabling computer access for the disabled, cognitive retraining, improving development of gross/fine motor skills and activities that enhance quality of life. Graduates will receive an Associate of Applied Science degree after successful completion of academic and fieldwork experiences.

The Occupational Therapy Assistant program is an engaged service learning program. Service learning requirements are embedded in coursework. Students are required to spend 150 hours or more involved in service learning, which may be outside of scheduled course times. Students may be required to attend conferences and out-of-state activities. The expenses of these requirements are additional student costs. Expenses can be offset by enrollment in AmeriCorps, if available. Students with a "B" average or higher will graduate as civically engaged scholars.

Career Opportunities: Work settings includes acute care hospitals, rehabilitation centers, psychiatric hospitals, community living facilities, home health agencies, community mental health centers, school systems, nursing homes, burn centers and rehabilitation clinics. Practice areas include: children and youth, health and wellness, mental health, productive aging, rehabilitation, disability and participation, work and industry and emerging practice areas. COTAs work under the supervision of licensed, occupational therapists.

Transfer/Articulation Information: Students who are transferring credits from other institutions, Advanced Placement (AP) or College Level Examination Program (CLEP) scores should submit them to SLCC's Transfer Evaluation Office and submit the form, "Request for Evaluation of Transfer Credits. For more information, log on to http://www.slcc.edu/transcriptevaluation. Transfer evaluation may take up to six weeks to complete. All transfer credits, AP and CLEP scores must be posted before submitting the Health Sciences Admission Application. It is highly recommended that students meet with the Health Sciences advisor upon completion of the evaluation process to review transfer credits, AP and CLEP scores.

Program Entry Requirements:

ADMISSIONS PROCESS

1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at : http://www.slcc.edu/transcriptevaluation/. This process may take 4-6 weeks and must be completed before a student's application will be considered.

5. Complete Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC (required before you are able to register for classes that have MATH and RDG/WRTG courses as prerequisites). See: www.slcc.edu/testing

OCCUPATIONAL THERAPY ASSISTANT PROGRAM SELECTIVE ADMISSION'S APPLICATION REQUIREMENTS

See the Occupational Therapy Assistant webpage for essential information regarding completion of program application and additional application requirements at www.slcc.edu/ota. Completion of the prerequisites allows students to apply to the program. Application submission does not guarantee admission to the program. Students should see a Health Sciences advisor.

APPLICATION REQUIREMENTS

1. Complete Online Application for Program
2. HESI (Health Education Systems, Incorporated) A2 exam.
3. Proof of Immunizations and CPR Health Care Provider certification adult, child, and baby with AED, First Aid certification; include with application.
4. Background check through SLCC's authorized vendor. In addition, it will *be the responsibility of the student to contact the licensing board and seek advice regarding eligibility for licensure and requirements needed to progress in this profession, if the criminal background check discloses issues of concern.*
5. Complete community service, 25 hours and submit one letter of recommendation.
6. Proctored essay.

NOTE: See program website for detailed information: http://www.slcc.edu/ota/index.asp

PROGRAM COURSE PREREQUISITES

MATH QUALIFICATIONS
- ***Accuplacer*** college level math score of 43 (*valid for 1 year*)
- ACT math score of 23 (*valid for 1 year*)
- MATH 1010 or higher *(minimum C grade within the past 5 years)*

ENGLISH QUALIFICATIONS
- AP English credit (*must be listed on SLCC transcript*)
- CLEP English credit (*must be listed on SLCC Transcript*)
- ENGL 1010 or higher Introduction to Writing *(minimum C grade)*

HUMAN ANATOMY
- BIOL 2320-2325 *(minimum B grade within the past 5 years; limited to two attempts)*

COMMUNICATIONS
- COMM 1010 *(minimum C grade)*

HUMAN GROWTH AND DEVELOPMENT
- PSY 1100 *(minimum C grade)*

INTRODUCTION TO OCCUPATIONAL THERAPY
- OTA 1020 *(minimum B grade within the past 5 years; limited to two attempts)*

RECOMMENDED BUT NOT REQUIRED
- MA 1100

NOTE: It is the student's responsibility to examine each course description for details of prerequisite classes. Prerequisites must be satisfied before the designated class is taken. Successful completion of all prerequisite classes is required before admission to the program.

IMMUNIZATION / CPR / DRUG TESTING / BACKGROUND REQUIREMENTS

- PPD (tuberculosis skin test)
- Tetanus, Diphtheria and Pertussis (Tdap)
- Measles, Mumps, Rubella (MMR)
- Varicella (Chicken Pox)
- Hepatitis B vaccination series
- Hepatitis A vaccination series
- Flu Shot
- Drug Testing

- Completed Criminal Background Check via SLCC vendor

NOTE: See program website for detailed information on immunizations, drug testing and criminal background check and CPR/First Aid in relationship to fieldwork and future certification, licensure and employment. http://www.slcc.edu/ota/index.aspx.

Course Fees: www.slcc.edu/ota

Estimated Cost for Students: Tuition per semester: www.slcc.edu/students-current/tuition-fees

Estimated Time to Completion: Four semesters

Specialized Accreditation: This program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE), 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20814-3425, (301) 652-2682, (301) 652-7711 (FAX), (800) 377-8555 (TTY). Graduates will be prepared to take the national certification examination administered by the National Board for Certification in Occupational Therapy, Inc (NBCOT). After successful completion of the exam, the individual will be a certified occupational therapy assistant (COTA) and eligible for state licensure, which is required to practice in Utah. Students with a history of a misdemeanor or felony may not be eligible for fieldwork placements, service learning requirements, state licensure or national certification and should contact the program coordinator before enrolling in classes.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
1. Graduates will acquire substantial foundational knowledge of the profession.	1,6,7
2. Graduates will acquire substantial therapy skills.	1,2,4,6
3. The program graduates will pass the National Board Certification of Occupational Therapy occupational therapy assistant examination.	1,4
4. Graduates with certifications will obtain employment in occupational therapy or their chosen field.	1,2,4
5. Employers will report that our graduates are competent at their jobs.	1,2,3,4,5,6,7
6. The program graduates will be effective in verbal, written, and non-verbal communicators with patients, peers, and others.	2,6,7
7. The program graduates will display quantitative literacy necessary for gainful employment in occupational therapy.	3
8. Graduates will exhibit behaviors consistent with showing respect for diversity.	4,6
9. Graduates will actively participate in service learning projects.	5,6,7

PREREQUISITE COURSES: (19 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
MATH 1010	Intermed Algebra (QS)	4	A	RDG 0900; and within the last year MATH 0990 w/C grade of better or appropriate Accuplacer score
BIOL 2320	Human Anatomy	4	A	BIOL 1610 (BS) w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
COMM 1010	Elem Effective Comm (CM)	3	A	
PSY 1100	Human Growth & Dev (SS)	3	A	
OTA 1020	Intro Occupational Thrpy	2	A	

HUMAN RELATIONS (HR)

Human relations training is embedded within the Occupational Therapy Assistant curriculum. Human needs and interpersonal relationships are constant with each patient, surgical technologist, nurse, and physician relationship and are threaded throughout the Occupational Therapy Assistant curriculum.

REQUIRED COURSES: (67 CREDITS)

COURSE		CR	SEM	PREREQUISITE
OTA 1100	Functional Anatomy	3	F	Acceptance into the OTA Program. Coreq: OTA 1105
OTA 1105	Functional Anatomy Lec/Lab	1	F	Acceptance into the OTA Program. Coreq: OTA 1100
OTA 1120	OT Modalities I Lec	2	F	Acceptance into the OTA program. Coreq: OTA 1130
OTA 1130	OT Modalities I Supervised Inst	3	F	Acceptance into the OTA program. Coreq: OTA 1120
OTA 1140	Physical Dysfunc Lec	3	F	Acceptance into the OTA program. Coreq: OTA 1150
OTA 1150	Physical Dysfunc Supervised Inst	3	F	Acceptance into the OTA program. Coreq: OTA 1140
OTA 1170	Phys Dysfunc Field Wk I	2	F	Acceptance into the OTA program.
OTA 1180	OT Domain & Process	2	F	Acceptance into the OTA program.
OTA 1210	OT Profess Issues I	2	F	Acceptance into the OTA program.
OTA 1220	OT Modalities II Lec	2	Sp	Complete all 1st semester courses. Coreq: OTA 1230
OTA 1230	OT Modalities II Supervised Inst	3	Sp	Complete all 1st semester courses. Coreq: OTA 1220
OTA 1240	Physical Dysfunction II	3	Sp	Complete all 1st semester courses. Coreq: OTA 1250
OTA 1250	Physical Dysfunc II Supervised Inst	3	Sp	Complete all 1st semester courses. Coreq: OTA 1240
OTA 1270	Pediatric FW Exper	2	Sp	Complete all 1st semester courses.
OTA 1280	Pediatric Lec	3	Sp	Complete all 1st semester courses. Coreq: OTA 1290.
OTA 1290	Pediatric-Supervised Inst	3	Sp	Complete all 1st semester courses. Coreq: OTA 1280
OTA 2310	OT Profess Issues II	2	Sp	Complete all 1st semester courses.
OTA 2320	OT Modalities III Lec	2	F	Complete all 2nd semester courses. Coreq: OTA 2330
OTA 2330	OT Modalities III Supervised Inst	3	F	Complete all 2nd semester courses. Coreq: OTA 2320
OTA 2340	Psychosocial Behavior	3	F	Complete all 2nd semester courses.
OTA 2350	Geriatrics	3	F	Complete all 2nd semester courses.
OTA 2370	Psy/Soc Geriat FW I Exp	2	F	Complete all 2nd semester courses.
OTA 2450	Fieldwork Exper II Pt 1	6	Sp	Complete all 3rd semester courses.
OTA 2460	Fieldwork Exper II Pt 2	6	Sp	Complete all 3rd semester courses.

SAMPLE SCHEDULE			
PREREQUISITES			
BIOL 2320-2325	4		
COMM 1010 (CM)	3		
ENGL 1010 (EN)	3		
MATH 1010 (QS)	4		
PSY 1100 (SS)	3		
OTA 1020	2		
Total	**19**		
FALL SEMESTER		**SPRING SEMESTER**	
OTA 1100	3	OTA 1210	2
OTA 1105	1	OTA 1220	2
OTA 1120	2	OTA 1230	3
OTA 1130	3	OTA 1240	3
OTA 1140	3	OTA 1250	3
OTA 1150	3	OTA 1270	2
OTA 1170	2	OTA 1280	3
OTA 1180	2	OTA 1290	3
Total	**19**	**Total**	**21**
FALL SEMESTER		**SPRING SEMESTER**	
OTA 2310	2	OTA 2450	6
OTA 2320	2	OTA 2460	6
OTA 2330	3		
OTA 2340	3		
OTA 2350	3		
OTA-2370	2		
Total	**15**	**Total**	**12**

Advising Notes:

Additional Program Notes:

PARALEGAL STUDIES – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 64 credits minimum

Computer Sciences and Paralegal Studies Division
Library Square, 231 E 400 S, Salt Lake City
Taylorsville Redwood Campus, BB 109
General Information, (801) 957-4073
Information, (801) 957-5150
http://www.slcc.edu/paralegalstudies
Academic Advisor, IAB 327 B, 801.957.3866

Program Faculty:
Instructors – KC Jensen, Sharee Laidlaw, L. Monte Sleight

Program Description: A paralegal is a person qualified through education, training and work experience, who under direction and supervision of an attorney performs delegated legal work for the attorney or law firm which the attorney otherwise would perform. Although a paralegal is not licensed to practice law, he or she completes tasks traditionally performed by an attorney with the exceptions of giving legal advice, independently representing clients and any other unauthorized practice of law.

Career Opportunities: This American Bar Association approved program is designed for those considering employment as a paralegal who wish to update their professional development or for those already in the field.

Transfer/Articulation Information: Students who are interested in pursuing courses leading to a Bachelor's degree in paralegal studies should consult the Paralegal Advisor, IAB 327B, 801.957.3866.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation: The Finance and Credit associate degree program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). This accreditation represents the achievement of meeting the high national standards established for associate degree-granting business programs.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Interview clients and witnesses and appropriately interact with clients. 2. Comply with the litigation process. 3. Use traditional and electronic resources to conduct legal research. 4. Draft Legal Documents 5. Understand basic substantive and procedural legal principles.	1 – Substantive Knowledge
1. Communicate effectively orally 2. Communicate effectively in writing	2 – Communicate Effectively
1. Perform Appropriate Calculations	3 – Develop Quantitative Literacy
1. Extract relevant data from complex information, process it appropriately, and draw reasonable conclusions.	4 – Think Critically
1. Recognize potential ethical issues in the practice of the law and apply appropriate rules of professional responsibility.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing(EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra(QS)	4	A	RDG 0990; within the past year MATH 0990 w/C grade or better or appropriate Accuplacer score

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Prin Public Speaking(IN)	3	A	

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 2110	Interpersonal Comm(ID,HR)	3	F, Sp	

DISTRIBUTION AREAS: (6 CREDITS)

Choose an additional six credits from at least two of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (31 CREDITS)

COURSE		CR	SEM	PREREQUISITE
*PLS 1010	Intro to Law	3	A	
PLS 1020	Intro Civil Lit	3	A	
*PLS 1030	Int Legal Rsch/Write	3	A	ENGL 1010
*PLS 1050	Legal Rsch/Wrtg II	3	A	PLS 1020, PLS 1030
PLS 1070	Crim Law & Prc	3	A	
*PLS 1120	Paralegal Proc I	3	A	
PLS 1180	Evidence	3	F, Sp	PLS 1070
PLS 2010	Comp Esntls Paralegal	4	A	CIS 1020 or challenge exam
PLS 2190	Ethics	3	A	12 cr of PLS classes
ONE OF THE FOLLOWING				
PLS 2090	Paralegal Practicum	3	A	PLS 1010, 1030, 1050, 1120, 2010
PLS 2000	CO-OP	3	A	PLS 1050 and program approval
PLS 2200	Legal Portfolio	3	A	PLS 1050

*Must be completed with a B- grade or higher. All other major courses must be completed with a C grade or better.

NOTE: 75% of major course requirements must be completed at Salt Lake Community College.

ELECTIVE COURSES: (SELECT 15 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
**CJ 2330	Juvenile Justice	3	F, Sp	CJ 1010(SS)
MA 1100	Medical Term	2	A	
MGT 2050	Legal Env of Bus	3	A	BUS 1050(ID)
MGT 2080	Employment Law	3	A	BUS 1050(D)
PLS 1080	Contracts	3	F, Sp	
PLS 1100	Bankruptcy & Collection	3	F	
PLS 1110	Wills, Prob/Est	3	Sp	
PLS 1130	Admin Law	3	F	
PLS 1140	Environ Law	3	F	
PLS 1160	Immigration Law	3	Sp	
PLS 1170	Family Law	3	F, Su	
PLS 1190	Constitutional Law	3	Su	
PLS 1300	Torts	3	F, Sp	
PLS 1530	Real Estate Law	3	Sp	
PLS 2000	CO-OP	1-6	A	PLS 1050 and program approval
PLS 2050	Legal Rsch/Write III	3	A	PLS 1050
PLS 2070	Mediation	3	F	Variable, contact department
PLS 2200	Legal Portfolio	3	Sp	PLS 1050
PLS 2250	Securities	3	F	PLS 1010
PLS 2260	Hollywood & the Law	3	Su	Variable, contact department
PLS 2990	Special Studies	1-3	TBA	Variable, contact department

**Must be completed with a B grade or higher. All electives must be completed with a C grade or better.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	COMM 2110	3
MATH 1010	4	PLS 1030	3
PLS 1010	3	PLS 1070	3
PLS 1020	3	PLS 2010	4
PLS 1120	3	PLS ELEC	3
Total	**16**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
COMM 1020	3	PLS 2000/2200	1-6
PLS 1050	3	PLS 2200	3
PLS 1180	3	PLS 2090	3
PLS ELEC	9	PLS 2190	3
		PLS ELEC	3
		DISTRIBUTION	6
Total	**18**	**Total**	**16-21**

Advising Notes: The following courses require a B- grade or higher: PLS 1010, PLS 1030, PLS 1050 and PLS 1120. Students are also required to earn a grade of C or better in Paralegal Program electives.

General Education requirements and elective courses provide training in effective oral and written communication and human relation skills. Various courses are taught using group and team activities in the learning process to develop the student's interactive skills and to build human values and ethics.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

Cooperative Education is the College's program for recognizing and rewarding new learning associated with study-related employment in a business, industrial or government work environment. Credit earned from PLS 2000 is applied toward graduation requirements as both an alternative required class and/or as an elective credit. Contact the Cooperative Education Department at (801) 957-4014.

The Department strongly recommends that students enhance their employment opportunities through Cooperative Education as soon as skills permit, to complement the certificate or degree.

PHYSICAL THERAPIST ASSISTANT – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS)

70 credits including prerequisites

Allied Health Division
Jordan Campus, JCHSC 059A
Program Information, (801) 957-6243
www.slcc.edu/ptassistant
Academic Advising, Jordan Campus, JHS 047, (801) 957- 6215
Health Science Admissions, JHS 047, (801) 957-6253

Program Faculty:
Professors – Ken Freeman, DPT; Diana Ploeger, PT, M Ed

Program Description: The Physical Therapist Assistant (PTA) program provides both general and technical education. The Physical Therapist Assistant program is accredited by the Commission on Accreditation in Physical Therapy Education.

The program consists of four semesters of physical therapist assistant coursework and labs in addition to the prerequisite courses. Upon successful completion, graduates are awarded an associate of applied science degree. Graduates are able to sit for the national examination for physical therapist assistants, which allows the individual to be eligible for licensure in states that require licensure to practice. To practice as a Physical Therapist Assistant in Utah, licensure is required.

Career Opportunities: The Physical Therapist Assistant is a health care provider working with individuals and their families under the supervision of a physical therapist in providing client care by applying a variety of therapy treatments in a variety of health care settings. Treatment techniques include heat, cold, electrotherapy, hydrotherapy, traction, massage and therapeutic exercises. Health care settings include hospitals, extended care facilities, rehabilitation centers, out-patient clinics, sports medicine clinics, work hardening programs, schools and homes. The physical therapist assistant also will be involved in modification of treatment programs, client/family education and discharge planning under the direction of a physical therapist.

Program Entry Requirements:

ADMISSION PROCESS

1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at www.slcc.edu/transcriptevaluation/transferring-to-slcc. This process may take 4-6 weeks and must be completed before a student's SLCC application will be considered.
5. Complete Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC, (required before you are able to register for classes that have MATH and RDG/WRETG courses as prerequisites). See: www.slcc.edu/testing/
6. Program course prerequisites are as follows:
   - **ALL prerequisites have a limit of two attempts**
   - BIOL 2320/2325 must be completed w/ a B or better and be less than 5 years old
   - PTA 1010 and PTA 1500 must be completed w/ a B or better
   - Remaining prerequisite courses must be completed with a C or better

COURSE		CR	SEM	PREREQUISITE
BIOL 2320	Human Anatomy	4	A	BIOL 1610/1615 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/ a C or better or appropriate Accuplacer score
MATH 1010	Interm Algebra	4	A	RDG 0990; within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score
PSY 1100	Human Growth & Dev	3	A	

PTA 1010	Intro to Physical Therapy	2	F, Sp	
PTA 1500	Practice Issues for the PTA	2	F, Sp	PTA 1010

NOTE: All prerequisite courses must be completed prior to submitting application for the Physical Therapist Assistant program.

PROGRAM-SPECIFIC APPLICATION REQUIREMENTS

See the Physical Therapist Assistant webpage for essential information regarding completion of application requirements http://www.slcc.edu/ptassistant/index.aspx

Estimated Cost for Students: Tuition per semester: www.slcc.edu/students-current/tuition-fees
Estimated cost for books and supplies: $400

Estimated Time to Completion: Students will follow the suggested semester schedule, time to completion is four semesters (Fall, Spring, Summer, Fall).

Specialized Accreditation: Commission on Accreditation in Physical Therapy Education,1111 North Fairfax Street Alexandria, VA 22314-1488

Program Objectives: See program website for detailed information on the Physical Therapist Assistant Program assessment outcomes www.slcc.edu/ptassistant

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Program graduates demonstrate technological skills appropriate for entry-level employment as a physical therapist assistant.	Acquiring substantive knowledge in field of their choice, developing knowledge and skills, thinking critically
2. Program graduates demonstrate research skills appropriate to an entry-level physical therapist assistant.	Thinking critically and developing quantitative literacies
3. Program graduates demonstrate professionalism through behaviors consistent with the APTA Code of Ethics and state licensure regulations for physical therapist assistants.	Developing knowledge and skills to be civically engaged
4. Program graduates demonstrate skills in the use of current equipment consistent with the field of physical therapy.	Developing knowledge and skills to be civically engaged
5. Program graduates communicate clearly with physical therapy stakeholders in verbally and written formats.	Communicating effectively

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900; and within the last year MATH 0990 w/C grade of better or appropriate Accuplacer score

COMMUNICATION (CM)

The Physical Therapist Assistant Program contains communication as a curriculum thread. Courses integrate communication into content presented in the classroom and clinical settings. Students learn basic communication skills in the beginning level courses. Additional content is added with each course, including group dynamics, group communication, therapeutic and non-therapeutic patterns of communication.

HUMAN RELATIONS (HR)

Human relations training is embedded within the physical therapist assistant curriculum. Human needs and interpersonal relationships are constant with each patient/physical therapist assistant relationship and are threaded throughout the physical therapy curriculum.

REQUIRED COURSES: (52 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PTA 2010	Functional Anatomy	3	F	PTA 1500 and acceptance into the technical program. Coreq PTA 2015
PTA 2015	Functional Anatomy Lab	1	F	PTA 1500 and acceptance into the technical program. Coreq PTA 2010
PTA 2100	Patient Care Skills	2	F	Admission into technical portion of program. Coreq PTA 2110
PTA 2110	Patient Care Skills Lab	1	F	Admission into technical portion of program. Coreq PTA 2100
PTA 2200	Therapeutic Modalities	2	F	Admission into technical portion of program. Coreq PTA 2210
PTA 2210	Therapeutic Mods Lab	2	F	Admission into technical portion of program. Coreq PTA 2200
PTA 2300	Therapeutic Exercise	2	F	Admission into technical portion of program. Coreq PTA 2310
PTA 2310	Therapeutic Exercise Lab	2	F	Admission into the core curriculum of the program. Coreq PTA 2300
PTA 2350	Data Collection PTA	2	Sp	Admission to the program. Coreq PTA 2360
PTA 2360	Data Collection PTA Lab	2	Sp	Admission to the program. Coreq PTA 2350
PTA 2400	Musculoskeletal Disorders	3	Sp	Admission to the program. Coreq PTA 2410
PTA 2410	Musculoskeletal Disorders Lab	1	Sp	Admission to the program. Coreq PTA 2400
PTA 2450	Neurological Disorders	2	Su	Admission to the program. Coreq PTA 2460
PTA 2460	Neurological Disorders Lab	2	Su	Admission to the program. Coreq PTA 2450
PTA 2510	PT for Specific Clientele	3	Sp	Admission to the program. Coreq PTA 2520
PTA 2520	PT for Specific Clientele Lab	1	Sp	Admission to the program. Coreq PTA 2510
PTA 2530	Gerontology	2	Sp	Admission to the program
PTA 2550	Rehabilitation Psychology	2	Su	Admission to the program
PTA 2600	Clinical Experience I	4	Su	Acceptance into the PTA program
PTA 2700	Clinical Internship I	6	F	Acceptance into the PTA program
PTA 2710	Clinical Internship II	6	F	PTA 2700
PTA 2750	Seminar for PTA	1	F	Admission to the program
PTA 2850	Special Studies for PTA	1	Sp	Admission to the program
PTA 2950	Sports Physical Therapy	2	F	Admission to the program

SAMPLE SCHEDULE

PREREQUISITES			
ENGL 1010	3		
MATH 1010	4		
PSY 1100	3		
BIOL 2320/2325	4		
PTA 1010	2		
PTA 1500	2		
Total	**18**		
FALL SEMESTER		**SPRING SEMESTER**	
PTA 2010	3	PTA 2350	2
PTA 2015	1	PTA 2360	2
PTA 2100	2	PTA 2400	3
PTA 2110	1	PTA 2410	1
PTA 2200	2	PTA 2510	3
PTA 2210	2	PTA 2520	1
PTA 2300	2	PTA 2530	2
PTA 2310	2	PTA 2850	2
Total	**15**	**Total**	**16**
SUMMER SEMESTER		**FALL SEMESTER**	
PTA 2450	2	PTA 2700	6
PTA 2460	2	PTA 2710	6
PTA 2550	2	PTA 2750	1
PTA 2600	4		
Total	**10**	**Total**	**13**

Advising Notes: The Physical Therapist Assistant program accepts 24 students every Fall semester. All prerequisite courses must be completed prior to submitting application to the program. The program consists of theory, laboratory and clinical

courses. The curriculum is offered during the day only. Students must complete the technical curriculum in the order outlined by the program and maintain a C grade **(77%)** or better in each required course.

Graduates are eligible to sit for the National Physical Therapist Assistant exam through the Federation of State Boards in Physical Therapy (www.fsbpt.org). Licensure is required in the State of Utah.

PHYSICS – ASSOCIATE OF SCIENCE (AS) — 63 credits minimum

Division of Natural Sciences
Taylorsville Redwood Campus, SI 341, (801) 957-4944
General Information, (801) 957-4073
www.slcc.edu/physics
Academic Advising, SI 209, (801) 957-4858

Program Faculty:
Associate Professor - Trina Van Ausdal, Jonathan Barnes
Assistant Professors - David Schaffer

Program Description: Physics includes the study of physics and astronomy. Classes are transferable to other schools in the state system of higher education and most other universities and colleges.
Physics classes are offered at three levels:

1. General survey classes for fulfilling a General Education requirement for non-technical students
2. A non-calculus, two-semester series for professionals and technicians (other than engineers)
3. A four-semester series of calculus-based physics for physics majors.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Students planning to transfer to Utah Valley University should take Math 2280 in place of Math 2250; there may be additional electives available for transfer as well. Students planning to transfer to Utah State University, Weber State University and the University of Utah may also take Chemistry 1220/1225.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1a. Acquire substantive knowledge of fundamental physics principles in mechanics, thermodynamics, electromagnetism, wave optics, and modern physics. 1b. Demonstrate competency using a spreadsheet program to solve and analyze physical situations. 1c. Be prepared for further study in physics or a related discipline at a four-year college or university.	1 – Substantive Knowledge
2a. Organize, present, and explain – both orally and in writing – solutions to physics problems. 2b. Communicate well in a group setting.	2 – Communicate Effectively
3a. Use and interpret information represented as data and graphs. 3b. Use appropriate mathematical techniques and physics concepts to analyze data. 3c. Apply concepts and methods of inquiry appropriate to physics problems.	3 – Develop Quantitative Literacy
4a. Demonstrate effective problem solving. 4b. Critically analyze physics problems and solutions for validity. 4c. Make connections across disciplines such as engineering, medicine, and biology. 4d. Apply scientific method to the inquiry process.	4 – Think Critically

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1210	Calculus I (QL)	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3

NOTE: Physical Science (PS) general education component is satisfied through pre-major coursework.

REQUIRED COURSES: (31 CREDITS)

COURSE		CR	SEM	PREREQUISITE
CHEM 1210	Gen Chem I	4	F,Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	MATH 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
MATH 1220	Calculus II	4	A	Within last year, MATH 1210 w/C grade or better
MATH 2210	Multivariate Calculus	3	A	Within last year, MATH 1220 w/C grade or better
MATH 2250	Diff Equations	4	F,Sp	Within last year, MATH 1220 w/C grade or better. Optional coreq: MATH 2210 required departmental approval
PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220
PHYS 2500	Computer Methods	2	F	PHYS 2210. Recommended prereq: PHYS 2220
PHYS 2710	Intro Modern Physics	3	Sp	MATH 2210, PHYS 2220, PHYS 2225 w/C grade or better. Recommended prereq: MATH 2250

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
CHEM 1210	4	MATH 1220	4
CHEM 1215	1	PHYS 2210	4
ENGL 1010	3	PHYS 2215	1
MATH 1210	4	DISTRIBUTION	3
DISTRIBUTION	3	LW	1
Total	**15**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
STUDENT CHOICE	3	MATH 2250	4
ENGL 2010	3	PHYS 2710	3
MATH 2210	3	AI	3
PHYS 2220	4	DISTRIBUTION (2)	6
PHYS 2225	1		
PHYS 2500	2		
Total	**16**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. The semesters in which courses are taught are listed below. Students should check the semester class schedule for day/ evening availability and modifications caused by varying enrollment.

DEPARTMENTAL OFFERINGS

COURSE		CR	SEM	PREREQUISITE
PHYS 1010	Elem Physics (PS)	3	A	
PHYS 1040	Elem Astronomy (PS)	3	A	
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
PHYS 2020	College Physics II	4	A	PHYS 2010. Recommended coreq: PHYS 2025
PHYS 2025	College Physics Lab II	1	A	PHYS 2010. Recommended coreq: PHYS 2020
PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2211	Physics Problem Session	1		
PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2221	Physics Problem Session	1		
PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220
PHYS 2500	Computer Methods	2	F	PHYS 2210. Recommended prereq: PHYS 2220
PHYS 2710	Intro Modern Physics	3	Sp	MATH 2210, PHYS 2220, PHYS 2225 w/C grade or better. Recommended prereq: MATH 2250

POLITICAL SCIENCE – ASSOCIATE OF SCIENCE (AS) 61 credits minimum

History, Anthropology and Political Science Department
Taylorsville Redwood Campus, AAB 165
Associate Dean: Marianne McKnight, AAB 165Q, 801-957-4547
Administrative Assistant: Laura Rice, AAB 165, 801-957-4307
www.slcc.edu/pols
Academic Advisor: Sidney McGuire Brown, AAB 237B, 801-957-3866
General Information, (801) 957-4073

Program Faculty:
Professors – David Hubert, Shari Sowards
Associate Professors – Joshua Gold

Program Description: Political Science prepares students to understand and participate in the processes whereby policies are made in local, state, national and international political systems. Students learn the factual and theoretical ways in which governmental and non-governmental actors interact. In the process, students develop analytical and communication skills.

Political Science courses are an essential part of a liberal arts education because many disciplines come together in political analysis. Moreover, political science courses are useful in a variety of majors such as history, sociology, pre-law, business, public administration, economics, education and international studies. Students who would like hands-on experience in the political realm may sign up for an internship administered by the Political Science Department. SLCC students have interned in Washington D.C. and Salt Lake City, volunteered on political campaigns, conducted exit polls, hosted a variety of national and local political figures and participated in nationwide foreign policy simulations.

Transfer/Articulation Information: Students should check with the department or academic advisor to determine which courses are transferable to other colleges within the Utah System of Higher Education. Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an academic advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
A. Acquire substantive knowledge of political science. B. Be prepared for further study in Political Science or a related discipline at a four-year college or university. C. Understand key concepts, events and personalities relating to U.S. government. D. Understand key concepts, events and personalities relating to the history, expression, and importance of modern political ideologies.	1 – Substantive Knowledge
Effectively communicate orally and in writing about key concepts and significant topics in U. S. government, political ideologies, and other topics of Political Science.	2 – Communicate Effectively
Use and interpret information represented as data, graphs, and tables to analyze political behavior, public policy, the historical development of the U. S. political system or modern political ideologies, and/or other topics in Political Science.	3 – Develop Quantitative Literacy
Demonstrate in writing their understanding of key aspects of critical thinking such as claims and evidence analysis, identification of fallacious argumentation, hypotheses, and concepts pertinent to Political Science.	4 – Think Critically
Develop and demonstrate the knowledge and skills to be civically engaged.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) SELECT ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

NOTE: Courses that meet General Education requirements may be used to meet program requirements. If this option is chosen, student must complete additional elective courses to meet the total credit hour requirement. Please meet with an academic advisor to discuss options.

EXCEPTION: POLS 2300 and POLS 1100 are major course requirements; they cannot fulfill General Education requirements.

REQUIRED COURSES: (6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 2300	Political Ideology (SS)	3	F, Sp	

PROGRAM ELECTIVES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
POLS 1110	Intro State/Local Govt	3	TBA	
POLS 1900	Special Studies	1-2	F, Sp	Instructor approval
POLS 2000	Internship	2-4	TBA	Instructor approval
POLS 2100	Intro Intl Politics (SS)	3	TBA	
POLS 2070	Div & US Politics (SS,DV)	3	A	POLS 1100 w/C grade or better
POLS 2200	Intro Compare Politics(SS)	3	TBA	
POLS 2900	Special Topics	1-3	TBA	Instructor approval
POLS 2950	Leadership	2	F	
POLS 2500	Peace and Conflict:	3	F	

	Domestic (SS)		
POLS 2700	Model United Nations (SS)	3	S

ELECTIVES:

Complete 15 credits from any college course numbered 1000 or above. CIS 1020 and MATH 1010 may apply toward the 15 credits of electives.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
MATH 1030	3	POLS 2300	3
HLAC	1	POLS ELEC	3
POLS 1100	3	DISTRIBUTION	3
DISTRIBUTION	3	AI	3
STUDENT CHOICE	3		
Total	**16**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
POLS ELEC	3	DISTRIBUTION (2)	6
DISTRIBUTION (2)	6	ELEC (3)	9
ELEC (2)	6		
Total	**15**	**Total**	**15**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

PRE-PROFESSIONAL

Taylorsville Redwood Campus
General Information, (801) 957-4073
Program Information, (801) 957-4978
http://www.slcc.edu
Academic Advisor, SC 240, (801) 957-4835

Program Description: Salt Lake Community College offers most, if not all, the courses needed in the freshman and sophomore years of pre-professional programs such as pre-chiropractic, pre-dentistry, pre-law, pre-medicine, pre-pharmacy, pre-physical therapy, pre-occupational therapy, physician assistant, and pre-veterinarian.

Requirements for these programs vary from college to college. Programs listed below are examples only. They are best estimates of what most colleges require. Students should check with the advisor of the program to which they wish to transfer for full details. This is important to avoid taking unnecessary courses or missing important requirements.

Associate of Science degrees are not offered in any pre-professional program. Possible AS degrees for pre-professional students are General Studies, Biology, Chemistry or Physical Science. Students should consult an academic advisor to determine which AS degree is best suited to their needs.

PRE-CHIROPRACTIC

A minimum of 90 semester hours is required to apply to chiropractic colleges; 30 of the 90 semester credits must be upper division credits. All courses must be transferable to a Bachelor's degree. Students must have a cumulative GPA of at least 2.5 for both prerequisite courses and the required 90 semester credits.

BIOLOGY: One academic year with related labs which may include:

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	RDG 0990; MATH 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology Lab I	0	A	Coreq: BIOL 1610
BIOL 1620	College Biology II	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 1625
BIOL 1625	College Biology Lab II	0	A	Coreq: BIOL 1620
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2420	Human Physiology	4	A	BIOL 1610 w/C grade or better AND CHEM 1110 or CHEM 1210. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420

CHEMISTRY: Two academic years with related labs which may include:

COURSE				
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320

ENGLISH/COMMUNICATION: Six semester credits which may include:

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermed Writing	3	A	ENGL 1010 w/C grade or better
COMM 1010	Elements Effective Comm	3	A	
COMM 1020	Prin Public Speaking	3	A	

HUMANITIES AND/OR SOCIAL SCIENCES: 15 semester credits

PHYSICS: 10 semester credits

COURSE		CR	SEM	PREREQUISITE
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
PHYS 2020	College Physics II	4	A	PHYS 2010. Recommended coreq: PHYS 2025
PHYS 2025	College Physics Lab II	1	A	PHYS 2010. Recommended coreq: PHYS 2020
OR				
PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220

PSYCHOLOGY

COURSE		CR	SEM	PREREQUISITE
PSY 1010	Gen Psychology (SS)	3	A	

ELECTIVES: As needed to equal 90 semester credits

PRE-DENTISTRY OR PRE-MEDICINE

The completion of a bachelor's degree is required for entrance into medical school. A bachelor's degree is not required for dental school, but is highly recommended.

BIOLOGY: One or more academic years with related labs which may include:

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	RDG 0990; MATH 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology Lab I	0	A	Coreq: BIOL 1610
BIOL 1620	College Biology II	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 1625
BIOL 1625	College Biology Lab II	0	A	Coreq: BIOL 1620
BIOL 2020	Cell Biology	4	F, Sp	BIOL 1610 w/C grade or better. Coreq: BIOL 2025
BIOL 2025	Cell Biology Lab	0	F, Sp	Coreq: BIOL 2020
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2420	Human Physiology	4	A	BIOL 1610 w/C grade or better AND CHEM 1110 or CHEM 1210. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420

NOTE: A cell biology course is strongly recommended.

CHEMISTRY: Two academic years with related labs which may include:

COURSE				
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220

CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320

ENGLISH/COMMUNICATION: One academic year of composition and/or speech which may include:

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermed Writing	3	A	ENGL 1010 w/C grade or better
COMM 1020	Prin Public Speaking	3	A	

HUMANITIES AND/OR SOCIAL SCIENCES: One course

MATHEMATICS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or 1080 w/C grade or better or appropriate Accuplacer score
MATH 1220	Calculus II	4	A	Within the last year Math 1210 w/C grade or better

NOTE: Most dental and medical schools favor a full year of calculus.

PHYSICS: one academic year with related labs which may include:

COURSE		CR	SEM	PREREQUISITE
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
PHYS 2020	College Physics II	4	A	PHYS 2010. Recommended coreq: PHYS 2025
PHYS 2025	College Physics Lab II	1	A	PHYS 2010. Recommended coreq: PHYS 2020
OR				
PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220

SOCIAL SCIENCE: One course

PRE-LAW

No specific subjects are required. Any AS degree that leads to a BS degree will qualify. Pre-legal students must be able to express themselves clearly and forcefully in concise English and in writing. In addition, the following skills are desired: critical reading ability, analytical problem solving, general research and task organization and management.

PRE-OCCUPATIONAL THERAPY

BIOLOGY

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	RDG 0990; MATH 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology Lab I	0	A	Coreq: BIOL 1610
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2420	Human Physiology	4	A	BIOL 1610 w/C grade or better AND CHEM 1110 or CHEM 1210.

				Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420

PHYSICS OR KINESIOLOGY

COURSE				
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
OR				
HLTH 2200	Kinesiology	3	A	Recommended: BIOL 1090

STATISTICS: One course*

TECHNICAL WRITING

COURSE		CR	SEM	PREREQUISITE
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

ANTHROPOLOGY

COURSE		CR	SEM	PREREQUISITE
ANTH 1010	Culture & Human Exp(ID)	3	A	
OR				
ANTH 2011	People/Culture of SW(HU)	3	A	ANTH 2011

PSYCHOLOGY

COURSE		CR	SEM	PREREQUISITE
PSY 1100	Human Growth& Dev (SS)	3	A	
OR				
FHS 1500	Lifespan Human Dev (SS)	3	A	
PSY 2300*	Abnormal Psychology	3	A	ENGL 1010 and PSY 1010

SOCIOLOGY OR HEALTH

COURSE		CR	SEM	PREREQUISITE
SOC 1010	Intro to Sociology (SS)	3	A	
OR				
SOC 1020	Social Problems (SS)	3	A	
OR				
SOC 2680	Sociology of Aging	3	A	SOC 1010
OR				
HLTH 1050	Life, Society & Drugs (ID)	3	A	
OR				
EDU 1400	Study of Disability (SS,DV)	3	A	

MEDICAL TERMINOLOGY

COURSE		CR	SEM	PREREQUISITE
MA 1100	Medical Terminology	2	A	

NOTE: The University of Utah's Occupational Therapy program is a junior level entry. A minimum of 13 upper division credits are required before entering the program.

*Course available as upper division at University of Utah.

PRE-PHARMACY

Students are expected to have completed all of their General Education requirements before applying to the Pharmacy program. A bachelor's degree is not required, but is highly recommended.

BIOLOGY:

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	RDG 0990; MATH 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615

BIOL 1615	College Biology Lab I	0	A	Coreq: BIOL 1610
BIOL 2060	Microbiology	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2065
BIOL 2065	Microbiology Lab	0	A	Coreq: BIOL 2060
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2420	Human Physiology	4	A	BIOL 1610 w/C grade or better AND CHEM 1110 or CHEM 1210. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420

CHEMISTRY: Two academic years with related labs which may include:

COURSE				
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310
CHEM 2320	Organic Chem II	4	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325
CHEM 2325	Organic Chem Lab II	1	Sp,Su	CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320

ENGLISH

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

MATHEMATICS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or 1080 w/C grade or better or appropriate Accuplacer score
MATH 1220	Calculus II	4	A	Within the last year Math 1210 w/C grade or better

PHYSICS: One academic year with related labs which may include:

COURSE		CR	SEM	PREREQUISITE
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
PHYS 2020	College Physics II	4	A	PHYS 2010. Recommended coreq: PHYS 2025
PHYS 2025	College Physics Lab II	1	A	PHYS 2010. Recommended coreq: PHYS 2020
OR				
PHYS 2210	Physics Sci & Eng I	4	A	MATH 1210. Recommended coreq: PHYS 2215
PHYS 2215	Physics Sci & Eng Lab I	1	A	MATH 1210. Recommended coreq: PHYS 2210
PHYS 2220	Physics Sci & Eng II	4	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225
PHYS 2225	Physics Sci & Eng Lab II	1	A	PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220

PRE-PHYSICAL THERAPY

BIOLOGY

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	RDG 0990; MATH 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology Lab I	0	A	Coreq: BIOL 1610

BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
BIOL 2420	Human Physiology	4	A	BIOL 1610 w/C grade or better AND CHEM 1110 or CHEM 1210. Coreq: BIOL 2425
BIOL 2425	Human Physiology Lab	0	A	Coreq: BIOL 2420

CHEMISTRY: One academic year with related labs which may include:

COURSE				
CHEM 1110	Elem Chemistry	4	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1115
CHEM 1115	Elem Chem Lab	1	A	MATH 1010 or appropriate Accuplacer score. Recommended coreq: CHEM 1110
CHEM 1120	Elem Bioorganic Chem	4	A	CHEM 1110. Recommended coreq: CHEM 1125
CHEM 1125	Elem Bio Chem Lab	1	A	CHEM 1110. Recommended coreq: CHEM 1120
OR				
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220

ENGLISH

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermed Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

HEALTH

COURSE		CR	SEM	PREREQUISITE
HLTH 1200	First Aid and Safety	3	A	

MATHEMATICS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or 1080 w/C grade or better or appropriate Accuplacer score

STATISTICS

COURSE		CR	SEM	PREREQUISITE
MATH 2040	Stats for Applied Science	4	F, Sp	Within last year Math 1050 w/C grade or better or appropriate Accuplacer score

PHYSICS

COURSE		CR	SEM	PREREQUISITE
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010
PHYS 2020	College Physics II	4	A	PHYS 2010. Recommended coreq: PHYS 2025
PHYS 2025	College Physics Lab II	1	A	PHYS 2010. Recommended coreq: PHYS 2020

PSYCHOLOGY

COURSE		CR	SEM	PREREQUISITE
PSY 1010	Gen Psychology (SS)	3	A	

NOTE: The University of Utah's Physical Therapy program is a junior level entry. A bachelor's degree is required before entering the program.

PRE-VETERINARY

Any AS degree that leads to a BS degree will qualify, however we strongly encourage the Biology AS degree.

BIOLOGY: One or more academic years with related labs which may include:

COURSE		CR	SEM	PREREQUISITE
BIOL 1610	College Biology I	4	A	RDG 0990; MATH 0990 w/C grade or better or appropriate Accuplacer score. Coreq: BIOL 1615
BIOL 1615	College Biology Lab I	0	A	Coreq: BIOL 1610
BIOL 1620	College Biology II	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 1625
BIOL 1625	College Biology Lab II	0	A	Coreq: BIOL 1620
BIOL 2030	Genetics	4	F, Sp	BIOL 1610 w/C grade or better and CHEM 1210 w/C grade or better. Coreq: BIOL 2035
BIOL 2035	Genetics Lab	0	F, Sp	Coreq: BIOL 2030

CHEMISTRY: Three semesters with related labs which may include:

COURSE				
CHEM 1210	Gen Chem I	4	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1215	Gen Chem Lab I	1	F,Sp	Math 1050 w/C grade or better or appropriate Accuplacer score. Recommended coreq: CHEM 1215
CHEM 1220	Gen Chem II	4	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1225
CHEM 1225	Gen Chem Lab II	1	Sp,Su	CHEM 1210. Recommended coreq: CHEM 1220
CHEM 2310	Organic Chem I	4	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315
CHEM 2315	Organic Chem Lab I	1	F,Sp	CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310

MATHEMATICS

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1210	Calculus I	4	A	Within the last year, MATH 1060 or 1080 w/C grade or better or appropriate Accuplacer score

PHYSICS: one semester with related labs which may include:

COURSE		CR	SEM	PREREQUISITE
PHYS 2010	College Physics I	4	A	MATH 1060 or 1080. Recommended coreq: PHYS 2015
PHYS 2015	College Physics Lab I	1	A	MATH 1060 or 1080. Recommended coreq: PHYS 2010

STATISTICS: One course

PROFESSIONAL TRUCK DRIVING – CERTIFICATE OF PROFICIENCY[CTE] 240 Clock Hours

Program Division: Division of Applied Technology
Program Location: Meadowbrook Campus C 110
General Information: 801-957-7522
Program Information: Phone 801-957-3354
Program Website http://www.slcc.edu/sat/programs/professional-driving.aspx
Academic Advisor Butch Steffen SCM-W136C 801-957-3317

Program Faculty:
Instructors – Bill Tovar, Kenneth Medell

Program Description:
This intensive program is designed to prepare students for an entry level truck driving position as a Class "A" CDL driver. The program has three courses with units of study that cover basic and advanced operating practices, defensive driving, inspections, life skills and essential activities such as trip planning, map reading, hours of service, cargo handling and an employment workshop.

Career Opportunities:
For state and national occupation information, visit http://onlinelonetcenter.org/find and enter the following O*Net codes:

- 53-3032.00 Truck Drivers, Heavy and Tractor-Trailer
- 53-3032.02 Tractor-Trailer Truck Drivers
- 53-3021.00 Bus Drivers, transit, and Inter-city
- 53-3022.00 Bus Drivers, School

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE).
TABE Reading 6.5
TABE Math 4.5
CDL Learner's Permit (Class A)
Motor Vehicle Report (MVR)
No DUI's within past two years
DOT medical card
Drug Test

Estimated Cost for Students:
Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/professional-driving.aspx

Estimated Time to Completion:
240 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
The student will successfully pass the Commercial Driver License Skills Tests, obtain a Commercial Driver License (CDL) and find employment in the trucking industry.	1, 6

REQUIRED COURSES: 240 CLOCK HOURS)				
COURSE		Clock Hours	SEM	PREREQUISITE
KPDR 0510	Truck Driving/Class “A” CDL	160	A	
KPDR 0521	Extended Driving Course	80	A	KPDR 0510

PSYCHOLOGY – ASSOCIATE OF SCIENCE (AS) 61 credits minimum

Psychology and Sociology Department
Taylorsville Redwood Campus, AAB 165
General Information, (801) 957-4073
Program Information, (801) 957-4327
http://www.slcc.edu/psychology
Academic Advisor, AAB 237A, (801) 957-4294

Program Faculty:
Associate Professors – Larry R. Christensen, Howard Ingle, Karen Kwan, Katerina Salini
Assistant Professors – Lora L. Harpster, Shannon Flynt
Instructors – Justice Morath

Program Description: The Psychology department offers individual courses in psychology, as well as a two-year AS degree. Listed below is the recommended course of study for the AS degree.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Cost for Students: Tuition and books based on the number of credit hours each semester.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
1. Theory and Content of Psychology. Students will demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.	1 – Substantive Knowledge
2. Communication Skills. Students will be able to communicate effectively in a variety of formats.	2 – Communicate Effectively
3. Research Methods in Psychology. Students will understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.	3 – Develop Quantitative Literacy
4. Critical Thinking Skills in Psychology. Students will gain experience in critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.	4 – Think Critically
5. Civic Engagement. Students will develop the following skills and knowledge to by civically engaged and /or to work with others in a professional and constructive manner.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:
LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:
Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (3 CREDITS)

COURSE		CR	SEM	PREREQUISITE
PSY 1010	General Psychology (SS)	3	A	

NOTE: Students may use PSY 1010/PSY 1100 to fill a Major Course Requirement or a General Education Distribution Area in Social Science, but not both.

If PSY 1010/PSY 1100 are used to fill the Social Science Requirement, select 15 credit hours of Psychology courses from the following:

PROGRAM ELECTIVES: (SELECT 12 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
PSY 1100	Human Growth (SS)	3	A	
PSY 2010	Psych as a Sci & Prof	3	F, Sp	PSY 1010 and ENGL 1010
PSY 2250	Personality Theory	3	TBA	PSY 1010 and ENGL 1010
PSY 2300	Abnormal Psych	3	TBA	PSY 1010 and ENGL 1010
PSY 2500	Social Psychology	3	F, Sp	PSY 1010 or SOC 1010; and ENGL 1010
PSY 2710	Brain and Behavior	3	F, Sp	PSY 1010
PSY 2900	Special Topics	1-3	TBA	PSY 1010 and instructor approval

ELECTIVES:
Complete 12 credits from the following or any college course numbered 1000 or above.

COURSE		CR	SEM	PREREQUISITE
PSY 1210	Personal Growth Dev	3	A	
PSY 1900	Special Studies	1-2	A	PSY 1010 or instructor approval
PSY 2000	CO-OP Intern	2-4	A	PSY 1010, sophomore standing, 2.0 GPA and study related employment
PSY 2370	Gender in America (SS/DV)	3	TBA	PSY 1010 or SOC 1010
PSY 2400	Eco-Psychology	3	TBA	PSY 1010
PSY 2600	Psy Race, Class, Gender	3	TBA	PSY 2500

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
MATH 1030/1040	3	DISTRIBUTION (2)	6
AI	3	STUDENT CHOICE	3
PSY 1010	3	PSY COURSE	3
ELEC	3		
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
PSY COURSE (2)	6	PSY COURSE	3
ELEC	3	ELEC (2)	6
HLAC	1		
Total	**16**	**Total**	**15**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

The semesters in which courses are taught are listed above. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

RADIOLOGIC TECHNOLOGY
– ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) **75 credits including prerequisites**

Allied Health Division
Jordan Campus, JCHSC 059A
General Information, (801) 957-6200
Program Information, (801) 957-6200
http://www.slcc.edu/radtech
Academic Advising, JHS 047, (801) 957- 6215
Health Science Admissions, JHS 047, (801) 957-6253

Program Faculty:
Professors – Lisa Wood
Associate Professors – David Neil
Instructors – Rebecca Lowell

Program Description: The Associate of Applied Science degree in Radiologic Technology leads to a national certification and state licensure. The program offers students didactic and clinical experiences to learn skills of an entry-level radiographer. Radiology courses are taught at Jordan Health Sciences Bldg, Jordan Campus and clinical education occurs at local health care facilities. Students can complete General Education classes at any SLCC Campus location.

Career Opportunities: Radiographers provide patient services using imaging modalities at the request of physicians qualified to prescribe and/or perform radiologic procedures. A radiographer performs radiographic procedures, applies principles of radiation protection, evaluates radiographs for technical quality, exercises professional judgment and provides patient care. Radiographers can find employment in hospitals, clinics, private offices, industry and public health facilities.

Transfer/Articulation Information: Students who are transferring credits from other institutions, Advanced Placement (AP) or College Level Examination Program (CLEP) scores should submit them to SLCC's Transfer Evaluation Office and submit the form, "Request for Evaluation of Transfer Credits. For more information, log on to http://www.slcc.edu/transcriptevaluation. Transfer evaluation may take up to six weeks to complete. All transfer credits, AP and CLEP scores must be posted before submitting the Health Sciences Admission Application. It is highly recommended that students meet with the Health Sciences advisor upon completion of the evaluation process to review transfer credits, AP and CLEP scores

Program Entry Requirements:

ADMISSIONS PROCESS

1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at : http://www.slcc.edu/transcriptevaluation/. This process may take 4-6 weeks and must be completed before a student's application will be considered.
5. Complete Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC (required before you are able to register for classes that have MATH and RDG/WRTG courses as prerequisites). See: www.slcc.edu/testing

APPLICATION REQUIREMENTS

1. See the Radiologic Technology webpage for essential information regarding completion of application requirements at http://www.slcc.edu/radtech/admission-process.aspx

NOTE: See program website for detailed information: http://www.slcc.edu/radtech/index.asp

REQUIRED PREREQUISITE COURSES:

Courses listed below (or equivalent transfer credit, AP or CLEP) must be completed with a C grade or better with the exception of BIOL 2320 and BIOL 2325 which must be completed with a **B- grade or better within the past five years; limited to two attempts.**

COURSE		CR	SEM	PREREQUISITE
ENGL 1010 (EN)	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
MATH 1010 (QS)	Intermed Algebra	4	A	RDG 0900; and within the last year MATH 0990 w/C grade of better or appropriate Accuplacer score
OR				
MATH 1050 (QL)	College Algebra			
BIOL 2320	Human Anatomy	4	A	BIOL 1610 w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
RADS 1010	Intro Radiologic Tech	2	A	

NOTE: It is the student's responsibility to examine each course description for details of other prerequisite classes. Those prerequisites must be satisfied before the designated program prerequisite course may be taken.

IMMUNIZATION / CPR / DRUG TESTING / BACKGROUND REQUIREMENTS

- Annual Influenza Vaccination
- Annual PPD (tuberculosis skin test)
- Tetanus, Diphtheria and Pertussis (Tdap)
- Measles, Mumps, Rubella (MMR)
- Varicella (Chicken Pox)
- Hepatitis B vaccination series
- Hepatitis A vaccination series
- Current CPR – Two-year Health Care Provider
- Drug Testing, student will be notified
- Completed Background via SLCC vendor

NOTE: See program website for detailed information on immunizations www.slcc.edu/radtech

Estimated Cost for Students: Estimated Cost of Core Curriculum for Resident Students: http://www.slcc.edu/students-current/tuition-fees/. Approximate cost course fees: http://www.slcc.edu/policies/docs/c4s01.01.pdf

Estimated Time to Completion: Students will follow the program semester schedule. It will take four semesters and one summer semester (Fall, Spring, Summer, Fall, Spring), to complete the program.

Specialized Accreditation: The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606-3182. Graduates are eligible to take the American Registry of Radiologic Technology (ARRT) examination in Radiography.

Program Objectives:
See program website for detailed information on the Radiology Technology Program assessment outcomes www.slcc.edu/radtech

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1- Acquire substantive knowledge 2- Communicate effectively 3- Develop quantities literacies 4- Think critically and creatively 5- Develop knowledge and skills to be civically engaged 6- Develop the knowledge and skills to work with others in a professional and constructive manner 7- Develop computer and information literacy
1.The student will have entry-level employment skills • Students will produce diagnostic quality radiographs • Students will recognize emergency situations and initiate appropriate treatment • Students will have knowledge of positioning and image evaluation criteria • Students will utilize proper radiation protection practices	1,5,6 & 7
2. Students will develop effective communication skills • Students will communicate effectively with patients, peers and others in the healthcare field appropriate to healthcare quality standards	1, 2, 4, 5 & 6
3.Students will develop effective critical thinking skills • Students will analyze radiographic images for proper positioning and image quality and determine corrective actions needed for non-quality images	1, 2, 3, 4, 5 & 6
4.Students will develop effective problem-solving skills • Students will develop quantitative literacies (math skills) necessary to safely perform procedures in the radiologic field • Students will use effective problem solving skills in the clinical setting	1, 2, 3, 4, 5 & 6
5.Students will demonstrate clinical competencies • Students will successfully compete all mandatory and elective competency requirements for each semester and meet minimum standards required by accreditation	1, 2, 3, 4, 5, 6 & 7
6.Students will demonstrate personal growth & professional development • Students will demonstrate professional and ethical behavior and meet legal and ethical standards for the profession • Students will demonstrate life-long learning activities	1, 2, 4, 5 & 6
7.The program will provide an adequate number of qualified entry-level technologies to meet the needs of the community • The programs completion rate will meet the JRCERT requirements • Students will feel prepared for their first position as a radiographer • Students will obtain employment in radiography • Students will pass the ARRT examination	1, 2, 3, 4, 5, 6 & 7

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS

COMPOSITION (EN) (Courses are part of program required pre-requisites)

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
OR				
ENGL 2010	Intermed Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE STUDIES (QS) (Courses are part of program required pre-requisites)

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra (QS)	4	A	RDG 0900; and within the last year MATH 0990 w/C grade of better or appropriate Accuplacer score
OR				
MATH 1050	College Algebra (QL)	4	A	RDG 0900; and within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score

REQUIRED COURSES: (62 CREDITS)

COURSE		CR	SEM	PREREQUISITE
COMM 1010*	Elem Effective Comm	3	A	
CIS 1020*	Computer Essentials	3	S	

*Highly recommended to be completed prior to application to the program.

NOTE: Students have to be admitted to the program before they can take any Radiologic Technology Courses (RADS) listed below. The program requires four consecutive semesters and one summer term of full-time day commitment with an average weekly involvement of 35 hours. Students must receive a C grade or better in all courses to remain in the program.

COURSE		CR	SEM	PREREQUISITE
RADS 1020	Rad Anat & Proc I	4		Admission to the program
RADS 1030	Radiographic Imaging I	2		Admission to the program
RADS 1040	Clinical Education I	4		Admission to the program
RADS 1050	Patient Care	2		Admission to the program
RADS 1110	Radiation Protection	2		RADS 1030
RADS 1120	Rad Anat & Procedure II	4		RADS 1020
RADS 1130	Radiographic Imaging II	4		RADS 1030
RADS 1140	Clinical Education II	4		RADS 1040
RADS 1220	Rad Anat & Procedure III	2		RADS 1120
RADS 1240	Clinical Education III	3		RADS 1140
RADS 2010	Image Analysis	2		RADS 1220
RADS 2020	Rad Anat & Procedure IV	2		RADS 1220
RADS 2030	Radiographic Imaging III	2		RADS 1130
RADS 2040	Clinical Education IV	4		RADS 1240
RADS 2050	Adv Patient Care	2		RADS 1050
RADS 2060	Radiobiology	2		Completion of prior semester courses per curriculum plan
RADS 2100	Comp Radiology	3		RADS 1030
RADS 2110	Radiographic Pathology	2		RADS 2050
RADS 2120	Sectional Anatomy	2		Completion of prior semester courses per curriculum plan
RADS 2140	Clinical Education V	4		RADS 2040

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
RADS 1020	4	RADS 1110	2
RADS 1030	2	RADS 1120	4
RADS 1040	4	RADS 1130	4
RADS 1050	2	RADS 1140	4
Total	**12**	**Total**	**14**

SUMMER SEMESTER	
RADS 1220	2
RADS 1240	3
RADS 2050	2
CIS 1020*	3
TOTAL	**10**

FALL SEMESTER		SPRING SEMESTER	
RADS 2020	2	RADS 2100	3
RADS 2030	2	RADS 2010	2
RADS 2040	4	RADS 2120	2
RADS 2060	2	RADS 2140	4

RADS 2110	2	COMM 1010*	3
Total	**12**	**Total**	**14**

***CIS 1020 and COMM 1010 are highly recommended to be taken with the pre-requisites prior to entering program**

Advising Notes: Radiology classes are held during the day, either 1 to 2 days per week depending on the semester. Clinical education experiences are held during the day, 3 days per week. Students may be required to attend non-traditional clinical hours (evenings & weekends) at some facilities. Weekend shifts in the hospitals allow the student to see a variety of examinations and work more independently than during the week. These rotations will be limited to once a month. Hospitals requiring this will be announced during new student orientations.

An evening program is offered every even-numbered year. Classes are held either 1 or 2 nights per week depending on the semester. Clinical education experiences are held during the evening, 3 evenings per week, (some semesters requiring a 2 evening and 1 day rotation).

Clinical and academic involvement for students may never exceed 40 hours per week.

AIR CONDITIONING/HEATING/REFRIGERATION – CERTIFICATE OF COMPLETION[CTE] 960 Clock Hours

Program Division: Division of Applied Technology
Program Location: Meadowbrook Campus, Building A, Office A129E
General Information: 801-957-7522
Program Information: 801-957-3354
Program Website: http://www.slcc.edu/sat/programs/skilledservicetech/airconditioning.aspx
Academic Advisor: Butch Steffen, MBC B115, 801-957-3317

Program Faculty:
Instructors – George Lange

Program Description:

This program is designed to prepare students for future employment in the heating, ventilation, air conditioning, refrigeration (HVACR) industry. The program consists of 6 major sections with required core training courses and elective courses designed to allow students to determine which area of the HVACR industry they would like to specialize in. Throughout training students will be given the opportunity to demonstrate, thereby certifying, their skills by participating in nationally recognized tests which provide "Employment Ready" certifications. "Employment Ready" certifications confirm the student's grasp of the critical skills needed for entry level technicians in the HVACR industry. The following is a general overview of the program.

1. Occupational Safety. The 20 hour course provides safety training as applied to the HVACR industry.
2. Green Energy efficiency awareness training is emphasized in all functions of the program with a review section that provides basic understanding of energy conservation and its role in the future of the HVACR industry. Green Mechanical Counsel (GMC) 3rd party certification is available.
3. Electrical training specific to the HVAC industry. Theory and Lab exercises provide essential building code and troubleshooting training.
4. Service of multiple types of heating equipment is introduced with emphasis on combustion equipment safety, and maximizing operating efficiency. Training includes meeting the requirements to complete the Rocky Mountain Gas Assoc. (RMGA), Carbon Monoxide Safety Assoc. (COSA), and HVAC Excellence (ESCO) "Employment Ready" 3rd party certifications.
5. Refrigeration theory and lab exercises on the basic fundamentals of residential and commercial equipment service. Core training includes EPA 608 (CFC certification) and R410A Certification which are industry required certifications to use these refrigerants. "Employment Ready" certifications confirm the student's understanding of core fundamentals and chosen elective options, designed to fit the specific training needs of the students. Optional EPA 609 (Automotive Refrigeration) training is available with the elective options of automotive and transportation systems refrigeration training.
6. Students will choose a final elective either participating in an externship working in a supervised environment with a local employer performing semi-skilled and skilled job tasks or working on a capstone project under the direction of the instructor. The capstone project will emphasize improved energy efficiency concepts and focus on a specific area of the student's own personal interest. The project may require students to utilize resources in the local HVACR community outside of the classroom to complete this challenge.

Certifications

The following certifications are available to students. Some certifications are required; others are optional.

- Rocky Mountain Gas Association (RMGA): Combustion Gas (RMGA) Certification (required)
- ESCO Institute –HVAC Excellence "Employment Ready" Certifications (ERC) (optional depending on electives)
    - Electrical Service ERC
    - Refrigeration & Air Conditioning ERC
    - Heat Pump ERC
    - Gas Appliances ERC
    - Oil Systems ERC
    - Combustion Analysis & Energy Efficiency ERC

- Carbon Monoxide Safety Association (COSA) thru ESCO Institute: Carbon Monoxide & Combustion Safety (COSA) Certification (optional depending on electives)
- Green Mechanical Council (GMC) thru ESCO Institute: Green Mechanical Awareness (GMC) Certification (optional)
- EPA 608 (Chloro-Floro-Carbon – CFC) Refrigerant Certification thru ESCO Institute (required)
- EPA 609 (Automotive CFC) Refrigerant Certification thru ESCO Institute (optional)
- Air Conditioning & Refrigeration Safety Coalition (AC&R) thru ESCO Institute: R410A Refrigerant Safety (AC&R) Certification (optional)

Career Opportunities:
For state and national occupation information, visit http://onlinelonetcenter.org/find and enter the following O*Net codes:
- 49-9021.00 HVAC Mechanics and Installers
- 49-9021.01 Heating and Air Conditioning Mechanics
- 49-9021.02 Refrigeration Mechanics

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):
Reading 8.0
Math 10.0

Estimated Cost for Students:
Please visit the program website for up-to-date cost information.
http://www.slcc.edu/sat/programs/skilledservicetech/airconditioning.aspx

Estimated Time to Completion:
960 Clock Hours

Specialized Accreditation: (Certifications/Licenses)
- OSHA 10-Hour Safety Training Certification
- EPA 608 (CFC) Certification - meets federal requirements to purchase and use refrigerants
- EPA 609 (Automotive CFC) Certification - meets federal requirements to purchase and use R-134 required for automotive service applications
- COSA (Carbon Monoxide Safety Association) Certification in Carbon Monoxide Safety Training
- RMGA (Rocky Mountain Gas Association) Certification required to service gas appliances
- AC&R (Air Conditioning & Refrigeration Safety Coalition) R-410 Safety Training Certification required to purchase & use R-410A.
- HVAC Excellence Association "Employment Ready" Certifications: 3rd party certification of various aspects of HVAC service that recognizes basic understanding of trade fundamentals.

Follow-up certifications are also available contingent upon additional training and service experience.
- GMC (Green Mechanical Coalition) "Green Mechanical" Awareness Certification – provides certification of training in basic understanding and awareness of energy efficiency applications in the HVAC industry.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students will successfully complete 3rd party certifications in the following areas as required: • EPA 608 (CFC) Certification • EPA 609 (automotive CFC Certification	1, 6

• RMGA Gas Service Training Certification • HVAC Excellence "Employment Ready" Certification in various areas of HVAC training. (certifications based on course electives selected) • COSA Carbon Monoxide Safety Certification • AC&R R-410A Safety Certification • GMC "Green Mechanical" Awareness Certification	
Students will obtain training related jobs. The various certificates earned in this program should provide a positive influence to their hiring potential by employers.	1, 6
Students will be able to apply their training toward completion of an apprenticeship or AAS degree through their continuation in the consecutive SLCC programs.	1, 6
Students will learn skills associated with improving energy and environmental efficiencies that the students will find beneficial for their career opportunities.	1, 6

REQUIRED COURSES: (720 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KACC 0100	Safety Fundamentals	20	A	
KACC 0105	Green Energy Systems	40	A	
KACC 0200	Fundamentals of Electricity	180	A	
KACC 0220	Electrical Applications	140	A	
KACC 0230	HVAC Fundamentals	20	A	
KACC 0240	Applied Combustion Theory	80	A	
KACC 0250	Applied Refrigeration Theory	70	A	
KACC 0260	Automotive A/C Service	10	A	
KACC 0300	Residential HVAC Systems	160	A	
KACC 0290	Employment Workshop	0-10	A	

ELECTIVE COURSES: (CHOOSE TWO FOR 160 CLOCK HOURS)

COURSE		CLOCK HOURS	SEM	PREREQUISITE
KACC 0400	Light Commercial HVAC Systems	80	A	
KACC 0420	Commercial HVAC Systems	80	A	
KACC 0440	Commercial Heat/Refrigeration	80	A	

ELECTIVE COURSES: (CHOOSE ONE FOR 80 CLOCK HOURS MINIMUM)

KACC 0500	Capstone Project	80	A
KACC 0990	HVAC Externship	80-240	A

Total Program Hours **960**

Heavy Duty Diesel Maintenance Technician
– CERTIFICATE OF PROFICIENCY[CTE] 405 Clock Hours

Program Division: Division of Applied Technology
Program Location: Meadowbrook
General Information: 801-957-7522
Program Information: Phone 801-957-3354
Program Website http://www.slcc.edu/sat/programs/skilledservicetech/dieselmaintenance.aspx
Academic Advisor Butch Steffen SCM-W136C 801-957-3317

Program Faculty:
Instructor – Mike Ensign

Program Description:
The Heavy Duty Diesel Maintenance Technician program prepares students for entry-level positions in diesel equipment service and repair shops. Students learn basic safety and shop skills to perform preventative maintenance and inspections, repair various brake systems, and adjust and maintain suspension and steering systems. Students are required to learn basic computer skills that are needed in the service environment.

Program Entry Requirements:
Students must demonstrate basic education skills as assessed by the Test of Adult Basic Education (TABE):

- Reading 9.0
- Math 9.0

Estimated Cost for Students:
Please visit the following program website for up-to-date cost information:
http://www.slcc.edu/sat/programs/skilledservicetech/dieselmaintenance.aspx

Estimated Time to Completion:
405 Clock Hours

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy
	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
Students will be able to diagnose and repair air brakes, ABS and wheel end components such as wheel seals and bearings.	1,4
Students describe importance of preventative maintenance, perform various inspections, identify and repair problems with equipment.	1,2,4
Students will be able to diagnose and repair various steering and suspension problems and perform basic alignments.	1,4
Students will be able to perform proper shop safety, properly identify and use a variety of fire extinguishers, and identify and use a variety hand tools, measuring tools and shop equipment.	1,4,6

REQUIRED COURSES: (405 CLOCK HOURS)

COURSE		Clock Hours		PREREQUISITE
KAOS 0170	Computer Concepts	30	A	
KHVT 0035	Safety and Shop Skills	60	A	
KHVT 0010	Prev Maint & Inspection	90	A	
KHVT 0005	Heavy Duty Brakes	90	A	

KHVT 0015	Suspension and Steering	120	A
KWRK 0515	Job-Seeking Skills	15	A

Advising Notes:

SOCIAL WORK – ASSOCIATE OF ARTS (AA) 64 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information, (801) 957-4073
Program Information, (801) 957-5035
www.slcc.edu/socialwork
Academic Advisor, AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Associate Professors – Mequette Sorensen, Enrique Velasquez

Program Description:
Social Work students learn to provide professional services for emotionally, economically or socially disadvantaged persons.

This introductory level program will acquaint students to the multi-faceted, multi-skilled Social Work profession. Students learn issues in the provision of services to emotionally, economically, mentally or socially disadvantaged persons. The program also requires internships where the student will learn to apply and further understand theoretical frameworks discussed in class.

Transfer/Articulation Information: Due to the numerous possibilities, it is suggested that students consult the Social Work Academic Advisor for information on how the higher education institutions accept credits for a given class. For specific information, contact the institution in which the transfer of credit is desired or the Social Work Academic Advisor.

WEBER STATE UNIVERSITY
ANTH 1010, BIOL 1090, PSY 1010, SOC 1010, SW 1010, SW 2100.

UNIVERSITY OF UTAH
BIOL 1010 or BIOL 1090 or BIOL 1610; POLS 1100, PSY 1010, SOC 1010, SW 1010, SW 2100, SW 2650. Community service is highly valued by the admissions committee at this institution.

UTAH STATE UNIVERSITY
ANTH 1010, BIOL 1010, FHS 1500, MATH 1040, PSY 1010, SOC 1010, SW 1010, SW 2100. SW 1010 must be completed with a C+ or better; all other classes with a C or better.

UTAH VALLEY UNIVERSITY
ENGL 1010 & ENGL 2010 with a C+ or better. SW 1010 with a B- or better. Community service is highly valued by the admissions committee at this institution.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application, volunteer and/or paid experience in the community as well as a competitive GPA. See the Social Work Academic Advisor or full-time faculty member at SLCC or the advisor at the intended receiving institution for specifics regarding application processes to Bachelors level education.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Acquire substantive knowledge of fundamental concepts in specific fields of social work such as Human Behavior, Social Welfare Policy, Mental Health, Drug and Alcohol Abuse, Group Therapy and Ethics. Be prepared for further study in social work or a related discipline at a four-year college or university.	1 – Substantive Knowledge
Effectively communicate orally and in writing about case-related issues specific to the social work field.	2 – Communicate Effectively
Use and interpret information represented as data, graphs, and tables to	3 – Develop Quantitative Literacy

analyze and understand human behavior in individuals, groups, families, organizations , communities, globally and /or other topics in social work.	
Demonstrate orally and in writing understanding of key aspects of critical thinking such as reasoning, problem-solving, strengths identification and case-related issues specific to the social work field.	4 – Think Critically
Develop and demonstrate in class, writing assignments and an internship the knowledge, ethical practice and skills to be civically engaged and to participate within society.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quant Reasoning	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

*POLS 1100 required for the University of Utah Social Work program

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
*Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
*Social Science (SS)	3
Physical Science (PS)	3

***NOTE:** PSY 1010 is recommended for the Social Science (SS) Distribution requirement. Biol 1010/1015 is required for USU. Biol 1090 is required for Weber.

LANGUAGE (LN) 5 CREDITS

COURSE		CR	SEM	PREREQUISITE
LANG 1020	Foreign Language	5	A	LANG 1010 or instructor approval

REQUIRED COURSES: (25 CREDITS)

COURSE		CR	SEM	PREREQUISITE
SOC 1010	Intro to Sociology (SS)	3	A	
SW 1010	Intro Social Wk	3	A	SW 2100 can be taken concurrently
SW 2100	Hu Beh Soc Env	3	A	SW 1010 can be taken concurrently
SW 2230	Intro Grp Ther	2	F, Sp	SW 1010, SW 2100, and SW 2720
SW 2280	Drug/Alch Abus	2	F, Sp	SW 1010 and 2100

SW 2650	Soc Welfare Po	3	A	SW 1010 and SW 2100 can be taken concurrently
SW 2720	Mental Health	2	F, Sp	SW 1010 and 2100
SW 2750	Ethics Soc Wk	2	F, Sp	SW 2720; however SW 2230 and SW 2280 can be taken concurrently with SW 2750
SW 2940	Social Work Internship	5	F, Sp	SW 1010, SW 2100, SW 2230, SW 2280, SW 2650, SW 2720, SW 2750. Both SW 2750, SW 2230, and SW 2940 can be taken concurrently, however placement will not occur until SW 2750 and SW 2230 are close to completion

SAMPLE SCHEDULE

FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
MATH 1030/1040	3	SOC 1010	3
SW 1010	3	SW 2720 (preq 2100)	2
SW 2100	3	POLITICAL SCIENCE 1100 (U of U req) (AI)	3
Interdisciplinary (ID)	3	STUDENT CHOICE*	3
SW 2650	3	HLAC	1
Total	**18**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
BIOL SCI (1090, 1010)	4	PHYS SCIENCE (PS)	3
SW 2280 (preq 2100)	2	HUMANITIES (HU)	3
SW 2230 (preq 2720)	2	PSYCH 1010 (SS)	3
SW 2750 (preq 2720; but 2230 and 2280 can be taken concurrently)	2	FINE ARTS (FA)	3
LANG 1020	5	SW 2940	5
Total	**14-15**	**Total**	**17**

Advising Notes:
*ETHS 2410/20/30/40 is recommended for Student Choice

SW 2230, 2280 must be completed (or can be taken concurrently) before registering for SW 2750.

SW 2750, SW 2230, and SW 2940 can be taken concurrently, however placement will not occur until SW 2750 and SW 2230 are close to completion. See Social Work Academic Advisor or Social Work Faculty for more details.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. It is important that all students take Psychology 1010 and Sociology 1010 early in the program.

Additional Program Notes: Semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment

SOCIAL WORK – ASSOCIATE OF SCIENCE (AS) 62 credits minimum

Education, Family & Human Studies and Social Work Department
Taylorsville Redwood Campus, Eccles ECD Lab School
General Information, (801) 957-4073
Program Information, (801) 957-5035
http://www.slcc.edu/socialwork
Academic Advisor, AAB 237A, (801) 957-4294

Associate Dean: Dale Smith

Program Faculty:
Associate Professors – Mequette M. Sorensen, Enrique Velasquez

Program Description:
Social Work students learn to provide professional services for emotionally, economically or socially disadvantaged persons.

This introductory level program will acquaint students to the multi-faceted, multi-skilled Social Work profession. Students learn issues in the provision of services to emotionally, economically, mentally or socially disadvantaged persons. The program also requires internships where the student will learn to apply and further understand theoretical frameworks discussed in class.

Transfer/Articulation Information: Due to the numerous possibilities, it is suggested that students consult the Social Work Academic Advisor for information on how the higher education institutions accept credits for a given class. For specific information, contact the institution in which the transfer of credit is desired or the Social Work Academic Advisor.

WEBER STATE UNIVERSITY
ANTH 1010, BIOL 1090, PSY 1010, SOC 1010, SW 1010, SW 2100.

UNIVERSITY OF UTAH
BIOL 1010 or BIOL 1090 or BIOL 1610; POLS 1100, PSY 1010, SOC 1010, SW 1010, SW 2100, SW 2650. Community service is highly valued by the admissions committee at this institution.

UTAH STATE UNIVERSITY
ANTH 1010, BIOL 1010, FHS 1500, MATH 1040, PSY 1010, SOC 1010, SW 1010, SW 2100. SW 1010 must be completed with a C+ or better; all other classes with a C or better.

UTAH VALLEY UNIVERSITY
ENGL 1010 & ENGL 2010 with a C+ or better. SW 1010 with a B- or better. Community service is highly valued by the admissions committee at this institution.

Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application, volunteer and/or paid experience in the community as well as a competitive GPA. See the Social Work Academic Advisor or full-time faculty member at SLCC or the advisor at the intended receiving institution for specifics regarding application processes to Bachelors level education.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Acquire substantive knowledge of fundamental concepts in specific fields of social work such as Human Behavior, Social Welfare Policy, Mental Health, Drug and Alcohol Abuse, Group Therapy and Ethics. Be prepared for further study in social work or a related discipline at a four-year college or university.	1 – Substantive Knowledge
Effectively communicate orally and in writing about case-related issues specific to the social work field.	2 – Communicate Effectively
Use and interpret information represented as data, graphs, and tables to	3 – Develop Quantitative Literacy

analyze and understand human behavior in individuals, groups, families, organizations , communities, globally and /or other topics in social work.	
Demonstrate orally and in writing understanding of key aspects of critical thinking such as reasoning, problem-solving, strengths identification and case-related issues specific to the social work field.	4 – Think Critically
Develop and demonstrate in class, writing assignments and an internship the knowledge, ethical practice and skills to be civically engaged and to participate within society.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
OR				
MATH 1040	Intro to Statistics	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
*POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

*POLS 1100 required for University of Utah Social Work Program

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
*Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
*Social Science (SS)	3
Physical Science (PS)	3

***NOTE:** PSY 1010 is recommended for the Social Science (SS) Distribution requirement. Biol 1010/1015 is required for USU. Biol 1090 is required for Weber.

REQUIRED COURSES: (25 CREDITS)

COURSE		CR	SEM	PREREQUISITE
SOC 1010	Intro to Sociology (SS)	3	A	
SW 1010	Intro Social Wk	3	A	SW 2100 can be taken concurrently
SW 2100	Hu Beh Soc Env	3	A	SW 1010 can be taken concurrently
SW 2230	Intro Grp Ther	2	F, Sp	SW 1010, SW 2100, and SW 2720
SW 2280	Drug/Alch Abus	2	F, Sp	SW 1010 and 2100
SW 2650	Soc Welfare Po	3	A	SW 1010 and SW 2100 can be taken concurrently
SW 2720	Mental Health	2	F, Sp	SW 1010 and 2100
SW 2750	Ethics Soc Wk	2	F, Sp	SW 2720; however SW 2230 and SW 2280 can be taken

				concurrently with SW 2750
SW 2940	Social Work Internship	5	F, Sp	SW 1010, SW 2100, SW 2230, SW 2280, SW 2650, SW 2720, SW 2750. Both SW 2750, SW 2230, and SW 2940 can be taken concurrently, however placement will not occur until SW 2750 and SW 2230 are close to completion

***ELECTIVES: (SELECT 3 CREDITS FROM THE FOLLOWING)**

COURSE		CR	SEM	PREREQUISITE
ETHS 2410	African Amer (SS, DV)	3	F, Sp	
ETHS 2420	Asian American (SS, DV)	3	F, Sp	
ETHS 2430	Mexican Amer (SS, DV)	3	F, Sp	
ETHS 2440	Native American (SS, DV)	3	F, Sp	
SW 1900	Special Studies	1-2	A	SW 1010, 2100, SW 2230, SW 2280, SW 2650, SW 2720
SW 2900	Special Topics	1-3	TBA	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
MATH 1030/1040	3	SOC 1010	3
SW 1010	3	SW 2720 (preq 2100)	2
SW 2100	3	SW 2650	3
Interdisciplinary (ID)	3	STUDENT CHOICE	3
		HLAC	1
Total	**15**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
BIOL SCI (1090, 1010)	4	SW 2940	5
SW 2280 (preq 2100)	2	SW ELECTIVE*	3
SW 2230 (preq 2720)	2	PSYCH 1010 (SS)	3
SW 2750 (preq 2720; but 2230 and 2280 can be taken concurrently)	2	HUMANITIES (HU)	3
POLITICAL SCIENCE 1100 (U of U req) (AI)	3	PHYS SCIENCE (PS)	3
FINE ARTS (FA)	3		
Total	**16**	**Total**	**17**

Advising Notes:

SW 2230, 2280 must be completed (or can be taken concurrently) before registering for SW 2750.

SW 2750, SW 2230, and SW 2940 can be taken concurrently, however placement will not occur until SW 2750 and SW 2230 are close to completion. See Social Work Academic Advisor or Social Work Faculty for more details.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. It is important that all students take Psychology 1010 and Sociology 1010 early in the program.

Additional Program Notes: Semesters in which courses are taught are listed below. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment

SOCIOLOGY – ASSOCIATE OF SCIENCE (AS) 61 credits minimum

Psychology and Sociology Department
Taylorsville Redwood Campus, AAB 165
General Information, (801) 957-4073
Program Information, (801) 957- 4327
www.slcc.edu/sociology
Academic Advisor, AAB 237A, (801) 957-4294

Program Faculty:
Professors – Anne Graham, Deidre Tyler
Associate Professors – Spencer Blake
Instructors – Zendina Mostert, Daniel Poole

Program Description: Sociology is concerned with social causes and consequences of human behavior. Subject matter ranges from the family to deviant behavior, gender to social problems, divisions of race, ethnicity and class to shared beliefs of a common culture. A degree in sociology will prepare students for degrees/careers in the social sciences, law, business and other professions. Social work students are also encouraged to take courses in sociology in order to establish a strong theoretical base. A recommended course of study is listed below.

The Sociology Department offers individual courses in sociology as well as a two-year AS degree with an emphasis in sociology.

Transfer/Articulation Information: Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Estimated Time to Completion: If students follow the suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
Acquire substantive knowledge of sociology. Be prepared for further study in sociology or a related discipline at a four-year college or university. Understand key concepts, theories, terms, definitions, and events relating to the field of sociology. Understand key concepts, events and theories relating to social institutions, social groups, race, gender, and social stratification. Expose students to the social science methodology and how that is applied to social structure and social environments.	1 – Substantive Knowledge
Effectively communicate orally and in writing about key concepts and significant topics in sociology, social institutions, gender, class, race, and other topics of sociology.	2 – Communicate Effectively
Use and interpret information represented as data, graphs, and tables to analyze human behavior, social institutions, gender issues, racial discrimination, and/or other topics in sociology.	3 – Develop Quantitative Literacy
Demonstrate in writing an understanding of key aspects of critical thinking such as claims and evidence analysis, identification of fallacious argumentation, hypotheses, and concepts pertinent to sociology.	4 – Think Critically
Develop and demonstrate the knowledge and skills to be civically engaged and to participate with society.	5 – Civic Engagement and/or Working Professionally

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE 3 CREDITS FROM ONE OF THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

DISTRIBUTION AREAS:

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Social Science (SS)	3
Physical Science (PS)	3

REQUIRED COURSES: (6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
SOC 1010	Intro Sociology (SS)	3	A	
AND				
SOC 2370	Gender in America(SS,DV)	3	F, Sp	ENGL 1010 or placement into ENGL 2010 or higher
OR				
SOC 2630	Race/Ethnicity (SS, DV)	3	F, Sp	

NOTE: Students may use SOC 1010 to fill a Major Course Requirement or a General Education Distribution Area in Social Science (SS), but not both.

PROGRAM ELECTIVES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
SOC 1020	Social Problems (ID)	3	A	
SOC 1900	Independent Studies	1-2	TBA	SOC 1010
SOC 2370	Gender in Amer (SS, DV)	3	F, Sp	ENGL 1010 or placement into ENGL 2010 or higher
SOC 2400	Intermountain West (ID)	3	F, Sp	
SOC 2600	Marriage & Family	3	F, Sp	SOC 1010
SOC 2630	Race/Ethnicity (SS, DV)	3	F, Sp	

NOTE: Students may use Sociology courses to fill Major Course Requirements or General Education Distribution Areas, but not both.

ELECTIVES:

Complete 15 credits from any college course numbered 1000 or above. MATH 1010 may apply toward the 15 credits of electives.

COURSE		CR	SEM	PREREQUISITE
SOC 1010	Intro to Sociology (SS)	3	A	
SOC 1020	Social Problems (ID)	3	A	
SOC 1900	Independent t Studies	1-2	TBA	SOC 1010
SOC 2370	Gender in Amer (SS,DV)	3	F, Sp	SOC 1010 or PSY 1010
SOC 2400	Intermountain West (ID)	3	A	
SOC 2600	Marriage & Family	3	F, Sp	SOC 1010
SOC 2630	Race & Ethnicity (SS, DV)	3	F, Sp	SOC 1010
SOC 2900	Special Topics	1-3	TBA	SOC 1010

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	ENGL 2010	3
MATH 1040	3	DISTRIBUTION (2)	6
SOC 1010	3	S0C 2370 or 2630	3
ELEC	3	STUDENT CHOICE	3
AI	3	HLAC	1
Total	**15**	**Total**	**16**
FALL SEMESTER		**SPRING SEMESTER**	
SOC ELEC	3	SOC ELEC	3
DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
ELEC (2)	6	ELEC (2)	6
Total	**15**	**Total**	**15**

Advising Notes: It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. Students who need to take preparatory classes to meet requirements of first semester courses should plan on extra time to complete the program.

The semesters in which courses are taught are listed above. Students should check the semester class schedule for day/evening availability and modifications caused by varying enrollment.

SURGICAL TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE] 39 credits

Allied Health Division
Jordan Campus, JCHSC 059A
Program Information, (801) 957-6215
www.slcc.edu/surgicaltech
Academic Advising, Jordan Campus, JHS 047, (801) 957- 6407
Health Science Admissions, JHS 047, (801) 957-6253

Program Faculty:
Program Director - Gregory Maughan
Instructors – Gregory Maughan, Jana Mitchell

Program Description: The Surgical Technology program prepares individuals to work primarily in the operating room. Students will be placed in clinical facilities, a different one each semester. These clinical placements are made at the discretion of the program director and the clinical coordinator. Clinical is in the second semester from about 6:30 a.m. to 3:30 p.m., Monday through Friday. Students must provide their own transportation to and from the clinical sites and may be required to take public transportation. Upon completion of the program, the surgical technology student receives a certificate of completion and are required to sit for the National Board of Surgical Technology and Surgical Assisting (NBSTSA) Exam within one year as mandated ARC/STSA (Accreditation Review Council on Education in the Surgical Technology and Surgical Assisting.

Career Opportunities: The surgical technologist is an individual with specialized education who functions as a member of the surgical team in the role of scrub person assisting with surgical procedures, creating and maintaining the sterile surgical field and, setting up and handing the instruments, sutures and other equipment needed to do the procedure and also is responsible for care of the instruments before and after the procedure. Employment opportunities are available in hospitals, surgical centers, labor and delivery, and physician's surgical suites.

The surgical technologist must be in good physical and mental health to withstand rigors of the job. Enrollment in the Surgical Technology program is limited to the number of available clinical sites.

This is a service learning program requiring students to perform twelve hours of guided community service.

Program Entry Requirements:

ADMISSIONS PROCESS

1. Be admitted to SLCC as a matriculated student. See www.slcc.edu/students-future/admissions
2. High School Graduate or equivalent.
3. For transfer credit, submit OFFICIAL, SEALED transcripts for ALL colleges and universities where prerequisite course work has been completed. Send to:
   SLCC Office of the Registrar and Academic Records
   4600 South Redwood Road
   P.O Box 30808
   Salt Lake City, UT 84130-0808
4. Also, a request to have an OFFICIAL evaluation of student's transcript must be submitted to the SLCC Transfer Evaluation Office. The form is located at : http://www.slcc.edu/transcriptevaluation/. This process may take 4-6 weeks and must be completed before a student's application will be considered
5. Complete Accuplacer exam, or submit current SAT/ACT test scores, if MATH and ENGL course work have not been transferred to SLCC (required before you are able to register for classes that have MATH and RDG/WRTG courses as prerequisites). See: www.slcc.edu/testing
6. Program course prerequisites are as follows (Must be completed with a C or better except BIOL 2320/2325 which must be completed with a C+ or better within the past 5 years):

COURSE		CR	SEM	PREREQUISITE
BIOL 2320	Human Anatomy	4	A	BIOL 1610 (BS) w/C grade or better. Coreq: BIOL 2325
BIOL 2325	Human Anatomy Lab	0	A	Coreq: BIOL 2320
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/ a C or better or appropriate Accuplacer score
PSY 1100	Human Growth & Dev (SS)	3	A	
OR				
PSY 1210	Personal Growth & Dev	3	A	

MA 1100 Medical Terminology 3 A

NOTE: All prerequisite courses must be completed prior to submitting application for the Surgical Technology program.

SURGICAL TECHNOLOGY PROGRAM SELECTIVE ADMISSION'S APPLICATION REQUIREMENTS
See the Surgical Technology webpage for essential information regarding completion of program application and additional application requirements at www.slcc.edu/surgicaltech Completion of the prerequisites allows students to apply to the program. Application submission does not guarantee admission to the program. Students should see a Health Sciences advisor.

Course Fees: www.slcc.edu/surgicaltech

Estimated Cost for Students: Tuition per semester: www.slcc.edu/students-current/tuition-fees

Specialized Accreditation:
The Salt Lake Community College Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, FL 33756

Program Objectives: Please see the SLCC Surgical Technology website for program assessment outcomes: www.slcc.edu/surgicaltech

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Prepare competent entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.	1,2,3,4,5,6,7
2. Prepare surgical technology students to sit for the National Board Exam for Surgical Technologists and Surgical Assists.	3,4
3. Prepare surgical technologists to scrub in the primary role in Endoscopy, General, Obstetrics and Gynecology, Otorhinolaryngology, Genitourinary Orthopedic, Oral and Maxillofacial, Plastic and Reconstructive, Ophthalmic, Peripheral Vascular, Cardiovascular and Neurological specialties.	2,3,4
4. Engage students in a clinical experience under the supervision of an experienced surgical technologist. Produce evidence of a minimum of 120 surgical cases. Show 30 cases in General Surgery. 20 of the cases must be in the First Scrub Role. Show 90 cases in various surgical specialties. 60 of the cases must be in the First Scrub Role and evenly distributed between a minimum of 5 surgical specialties. However, 15 is the maximum number of cases that can be counted in any one surgical specialty. Demonstrates progression in First and Second Scrubbing surgical procedures of increased complexity as he/she moves towards entry-level graduate abilities.	1,2,3,4,7
5. Develop effective communication skills including reading, writing, speaking and listening skills as necessary in the surgical setting.	1,2,4,6
6. Develop reasoning, problem solving, anticipation, and prioritization skills in the surgical setting, in order to effectively create and organize the sterile field for efficiency, safety and conservation of financial resources.	4,5
7. Develop a sense of civic engagement in order to work with others in a professional and constructive manor in the medical arena.	1,5,6
8. Prepare students to serve diverse patient populations with an ability to	1,2,5,6

meet their individual needs; these populations include those of diverse ethnicity, religion, disability, gender, age, and sexual orientation.	
9. Develop a strong surgical conscience in students, placing the patient first always.	1,2,4,5

GENERAL EDUCATION REQUIREMENTS
Core Skills

QUANTITATIVE STUDIES(QS) 3CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Elementary Algebra	4	A	RDG 0900; within the last year, MATH 0990 w/grade or Better, or appropriate Accuplacer Score

COMUNICATION (CM) 3CREDITS

COURSE	CR	SEM	PREREQUISITE
COMM 1010	3	A	

HUMAN RELATIONS (HR)
Human relations training is embedded within the Surgical Technology curriculum. Human needs and interpersonal relationships are constant with each patient, surgical technologist, nurse, and physician relationship and are threaded throughout the Surgical Technology curriculum.

REQUIRED COURSES: (32 CREDITS)

COURSE		CR	SEM	PREREQUISITE
SURG 1200	Intro Surgical Technology	10	F	Admission to program
SURG 1250	Adv Surgical Technology	10	F	SURG 1200
SURG 1500	Surgical Procedures I	1	Sp	SURG 1250. Coreq: SURG 1510
SURG 1510	Surgical Practicum I	5	Sp	SURG 1250. Coreq: SURG 1500
SURG 1600	Comprehensive Surg Tech	1	Sp	SURG 1500. Coreq: SURG 1510
SURG 1610	Surgical Practicum II	5	Sp	SURG 1600. Coreq: SURG 1610

SAMPLE SCHEDULE

PREREQUISITES			
BIOL 2320	4		
BIOL 2325	0		
ENGL 1010(EN)	3		
MATH 1010 (QS)	4		
COMM 1010 (CM)	3		
MA 1100	3		
PSY 1100/1210	3		
Total	**20**		
FALL SEMESTER		**SPRING SEMESTER**	
SURG 1200	10	SURG 1500	1
SURG 1250	10	SURG 1510	5
		SURG 1600	1
		SURG 1610	5
Total	**20**	**Total**	**12**

Advising Notes: A maximum of eighteen students are accepted to the program every Fall semester. Accepted students must take the SURG courses in the order outlined in the sample schedule. To remain in the program, students must complete the SURG courses with a C+ grade or better.

TECHNICAL TRANSFER – ASSOCIATE OF SCIENCE[CTE] (AS) 63 credits minimum

Technical Specialties Division

Taylorsville Redwood Campus, CT
General Information, (801) 957-4073
Program Information, (801) 957-4346
www.slcc.edu/saats
Academic Advisor, Taylorsville Redwood Campus CT 249, (801) 957-4550

Program Faculty:
From the various designated technical specializations.

Program Description:
The program is designed to provide students with a practical hands-on technical experience through a Certificate of Completion in designated technical specialization programs along with a Certificate of Completion in General Education (or Letter of Completion). Students will be prepared to transfer within the Utah System of Higher Education in a major of their choosing after having satisfied all General Education requirements for the transfer institution. Technical course transfer will be dependent upon the transfer institution and major selected. The program is designed to give students the skills necessary for technical employment while pursuing a bachelor's degree.

Designated Certificate of Completion Providing Technical Specialization Include:
Accounting
Aerospace/Aviation Technology - Dispatch
Automotive Collision Repair
Automotive Maintenance and Light Repair
Automotive Refinishing
Aviation Business Operations Fixed-Wing
Aviation Business Operations Rotor-Wing
Biomanufacturing
Business & Personal Computing
Business Management
Cabinetmaking & Furniture Construction
Commercial Fixed Wing
Commercial Rotor Wing
Construction Management & Sustainable Building
Diesel Systems Technology
Electronics Engineering Technology
Engineering Drafting & Manufacturing Technology
Family & Human Studies**
Finance & Credit
Geographic Information Science Technology (GIS)
Health Information Technology
Machining CNC/CAM Technology
Marketing Management
Medical Assistant
Motorcycle & Outdoor Power Equipment Technology
Retail Management
Surgical Technology
Welding Technology
Writing

Career Opportunities: Provides entry level positions within a variety of technical businesses or shops with potential for rapid promotion. This is the first step towards starting or working in a technical business. Additional opportunities are available in marketing, management, sales, etc. The program is designed to allow technical employment while pursuing a bachelorette degree.

Estimated Cost for Students: In addition to SLCC tuition and fees http://www.slcc.edu/cashiering/tuition-and-fees-aspx, the estimated cost of books and personal tools & equipment is based on the individual technical programs you have chosen. Please see the Certificate of Completion descriptions for your technical choice.

Estimated Time to Completion: If students follow the suggested sample schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
See Technical Area of Specialization	
See General Education Program	

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-5 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry (QL)	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1080	Precalculus (QL)	5	A	Appropriate Accuplacer score within the last year
MATH 1090	College Algebra-Business (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I (QL)	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

INTENSIVE (IN)

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communication (IN)	3	A	
COMM 1010	Elem Effective Comm (IN)	3	A	
COMM 1020	Prin Public Speaking (IN)	3	A	
COMM 1270	Analysis of Argument (IN)	3	F, Sp	
PHIL 1250	Reason/Ratl Dec Making (IN)	3	A	

TECH 1030	Complex Devices Simplified (IN)	3	F,Sp

OR

DEPTH

Any second course from one of the Distribution Areas

DISTRIBUTION AREAS (15 CREDITS)

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Physical Science (PS)	3		
Social Science (SS)	3		

NOTE: The General Education portion of the AS Transfer Degree is met by completing the Certificate of Completion in General Education or a Letter of Completion. Specific General Education courses will be taken as part of the Technical Certificate of Completion.

REQUIRED CERTIFICATE OF COMPLETION: (31 CREDITS MINIMUM)*

Complete one of the following Certificates of Completion:
Accounting (30 credits)
Aerospace/Aviation Technology – Dispatch (37-39 credits)
Automotive Collision Repair (32 credits)
Automotive Maintenance and Light Repair (38 credits)
Automotive Refinishing (34 credits)
Aviation Business Operations Fixed-Wing (36 credits)
Aviation Business Operations Rotor-Wing (36 credits)
Biomanufacturing (30 credits)
Business & Personal Computing (32 credits)
Business Management (33 credits)
Cabinetmaking & Furniture Construction (31 credits)
Commercial Fixed Wing (38 credits)
Commercial Rotor Wing (38 credits)
Construction Management & Sustainable Building (33 credits)
Diesel Systems Technology (33 credits)
Electronics Engineering Technology (31 credits)
Engineering Drafting & Manufacturing Technology (30 credits)
Family & Human Studies (36 credits)**
Finance & Credit (34 credits)
Geographic Information Science Technology (GIS) (31 credits)
Health Information Technology (39 credits)
Machining CNC/CAM Technology (30-32 credits)
Marketing Management (37 credits)
Medical Assistant (49 credits)
Motorcycle & Outdoor Power Equipment Technology (32 credits)
Retail Management (30 credits)
Surgical Technology (32 credits)
Welding Technology (35 credits)
Writing (33 credits)

*Includes General Education courses, please work with your academic advisor.
** See Education, Family & Human Studies and Social Work Department for additional AS degree options.

ELECTIVES

Additional course work to meet the 63 credit hour minimum may be required. Please make your selection based upon the transfer institutions requirements and the major selected.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
First Year = Technical Certificate of Completion			
Total	**16**	**Total**	**15**
FALL SEMESTER		**SPRING SEMESTER**	
Second Year = General Education			
Total	**16**	**Total**	**15**

Advising Notes: It is highly recommended that each student meet with the appropriate program advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. The program advisor may be reached at (801) 957-4550.

Additional Program Notes: All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employable skills. For more information see http://skillsusa-utah.org

Theatre Arts – ASSOCIATE OF SCIENCE (AS) 63 credits minimum

Communication and Performing Arts
South City Campus
General Information, 801-957-7522
Program Information, 801-957-3099
http://www.slcc.edu/performingarts
Academic Advisor: Cindy Clark, SCC 1.061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC 1.061MD (801) 957-3361

Program Faculty:
Associate Professors – Jon Clark, Tess Boone
Assistant Professors – Channing Lowe
Instructors – Julie Heaton, Mark Davis

Program Description: The Theatre Department offers a two-year program in theatre for students planning to major in either acting or technical theatre at a four-year institution, or directly pursue the theatre professionally. Students will have the opportunity to develop their abilities in acting for the stage, screen and other media. Students will also develop their knowledge and abilities in theatrical and screen production.

Departmental offerings include Introduction to Theatre, Introduction to Film, a variety of acting classes for stage, screen and other media; Stagecraft, Musical Theatre, Voice and Movement, Speech, Voice Over, Dialects, Script Analysis, Lighting Design, Sound Design and Production, Film and Theatre Production, and Makeup. The Department also offers opportunities to develop individual skills in a variety of theatrical productions, and cooperative projects with the film production classes each semester. Students will learn practical skills involved in running the backstage aspects of a stage production, and the fundamentals of basic video camera operation.

The Theatre Department faculty supports high standards in theatre education, enriched with film collaboration; they encourage and mentor individual students to attain their highest potential.

Career Opportunities: Continuation to baccalaureate granting institutions in performance, and technical production. Students may also obtain employment and/or internships with theatres in the local communities and nation-wide as performers, technical/running crew members, stage managers, and directors. Performers may seek representation by talent agencies in order to work in the film and television industry. Many actors and technicians do not hold regular jobs in the field but work as contract entrepreneurs in the communities.

Transfer/Articulation Information: Theatre Arts candidates planning to transfer to a four-year institution will be required to achieve a minimum GPA of 3.0 in their major courses.

Program Entry Requirements: A placement audition is required for the acting track. Contact Julie Heaton: julie.heaton@slcc.edu. An interview is required for technical track. Contact Jon Clark: jon.clark@slcc.edu

Total Program/Course Fees: Estimated books and supplies- $350 - $450 per semester, in addition to $10.00 for performing classes for theatre.

Estimated Cost for Students: Cost of supplies and texts are comparable with other General Education classes. Some courses require additional fees or may require live play or film attendance.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Specialized Accreditation:

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge
	2 – Communicate Effectively
	3 – Develop Quantitative Literacy

	4 – Think Critically and Creatively
	5 – Civic Engagement
	6 – Work Professionally and Constructively
	7 – Develop Computer and Information Literacy
	8 – Lifelong Wellness
1. Prepare students for transfer to four-year theatre arts programs in the state of Utah.	1, 2, 4, 8
2. Demonstrate academic understanding of theory and skills related to performance and production of artistic works for stage, film and other media.	1, 4, 6, 7, 8
3. Demonstrate ability to critically analyze the production values for stage, film and other media, with appropriate expression, accuracy and artistic value.	1, 2, 4, 6
4. Demonstrate competency in, and understanding of, the skills involved in creating artistic works for stage, film and other media.	1, 3, 4, 5, 6, 8

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-5 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry (QL)	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1080	Precalculus (QL)	5	A	Appropriate Accuplacer score within the last year
MATH 1090	College Algebra-Business (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I (QL)	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) (3 CREDITS)

DISTRIBUTION AREAS (18 CREDITS)

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		

Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (17 CREDITS)

COURSE		CR	SEM	PREREQUISITE
THEA 1033	Acting I: Basic Acting for Stage and Screen	3	F, Sp	
THEA 1223	Makeup	3	F	
THEA 1513	Tech I: Stagecraft	3	F, Sp	W/ THEA 1160
THEA 1160	Tech I Lab	3	F, Sp	W/ THEA 1513
THEA 1190	Production	1	F, Sp	
	THEA 1190 must be taken twice	1		
THEA 1713	Script Analysis	3	Sp	

REQUIRED COURSES – Acting Track: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
THEA 1113	Voice I: Speech	3	F	
THEA 1030	Voice & Movement	3	Sp	
THEA 2033	Acting II: Scene Study for Stage and Screen	3	F, Sp	THEA 1033

ELECTIVE COURSES – Acting Track: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
THEA 2113	Voice II: Dialects for Stage and Screen	3	F	THEA 1113
THEA 2150	Acting III: Auditions	3	F	THEA 1033
THEA 2413	Voice III: Voice Over	3	Sp	THEA 1113 or Instructor Approval
THEA 2443	Musical Theatre	3	Sp	THEA 1033

REQUIRED COURSES – Technical Track: (9 CREDITS)

COURSE		CR	SEM	PREREQUISITE
THEA 1170	Tech II: Lab	3	F, Sp	W/ THEA 2540
THEA 1515	Basic Audio Production	3	A	
THEA 2540	Tech II: Intro to Lighting for Stage and Screen	3	F, Sp	THEA 1513, W/ THEA 1170

ELECTIVE COURSES – Technical Track: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
THEA 1400	Copyrights for Creative Professionals	1	F, Sp	
THEA 1420	Salesmanship and Promotion for Creative Professionals	2	Sp	
THEA 1440	Building a Creative Business	2	Sp	
THEA 2513	Tech III: Intro to Design for Stage and Screen	3	F, Sp	

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
THEA 1033	3	THEA 1713	3
THEA 1113	3	THEA 2033/THEA ELEC	3
THEA 1223	3	THEA 1190	1
ENGL 1010	3	DISTRIBUTION (2)*	6
DISTRIBUTION (1)	3	LW	1
Total	**15**	**Total**	**14**
FALL SEMESTER		**SPRING SEMESTER**	

THEA 1160	3	THEA 1030/THEA 2540	3
THEA 1513	3	THEA ELEC/THEA 1170	3
THEA 1190	1	ENGL 2010	3
DISTRIBUTION (2)	6	DISTRIBUTION (2)	6
QL	3	AI	3
Total	**16**	**Total**	**18**

***Advising Notes**: It is the student's responsibility to examine each course description for details of prerequisites for each class. Those prerequisites must be satisfied before the designated class may be taken. It is recommended that students complete some of their distribution requirements by taking THEA 1013 Introduction to Theater (which meets the Interdisciplinary distribution requirement) and one of the following: THEA 1023 Introduction to Film, THEA 1090 Bridging the Arts, or THEA 1070 Film and Culture U.S. (each of which meets the Fine Arts distribution requirement – THEA 1070 also meets the Diversity course requirement). It is also recommended that students take another of these courses (THEA 1023, 1070, or 1090) to meet the Student Choice (Depth) General Education requirement.

Additional Program Notes:
Acting Track: At the completion of the program, students are required to perform an exit audition before a jury in order to demonstrate practical application of their skills, abilities, and versatility in performance. It is strongly encouraged that students take a minimum of one acting class each semester in order to prepare for this audition. Students planning on transferring to a 4 year institution should note that a similar audition is usually required for admission to an acting program.

Tech Track: All the courses listed as electives are highly recommended for successful transition into the profession. At the completion of the program, students will submit a portfolio that demonstrates the accomplishment of the student learning outcomes. The portfolio is evaluated by faculty and approved to obtain the degree.

VISUAL ART & DESIGN: GRAPHIC COMMUNICATIONS – ASSOCIATE OF SCIENCE (AS) — 63 credits minimum

Visual Art & Design Department
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC 1.061MD, (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – *Associate Professor*, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica – *Assistant Professor,* BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Assistant Professor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, ***Graphic Communications***, Graphic Design, Illustration, Multimedia, Photography, and Web Design.

Students who elect to pursue an AS Degree in ***Graphic Communications*** will prepare themselves for entry-level work in the graphic communications industry and/or transfer to a 4-year college or university. In this associate's program students use standard software programs, basic printing techniques, and technical procedures to prepare materials for both traditional publishing (printing) and new digital publishing technologies (tablets and digital devices, etc…). Students pursuing this AS degree will prepare themselves for successful transfer to an institution offering four-year Graphic Arts degrees.

Career Opportunities: Upon completion of this certificate, students may find entry-level design and layout positions in the Graphic Communications industry including but not limited to printing, publishing, and web design related careers. Students may elect to work in customer service, sales, design, production coordination, estimating, or prepress, etc…

Transfer/Articulation Information: This Associate of Science (AS) degree meets the requirements to satisfy the lower division general education requirements for a baccalaureate degree at all Utah public institutions of higher education. Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements:
Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with computers is **essential**.

Total Program/Course Fees:
Approximately $500 depending on chosen electives. Course Fees are used for maintenance and upgrade of:
- Press Equipment and Supplies
- Computers, software and supplies
- Servers, hosting, and storage space
- Technologies relating to publishing

Estimated Cost for Students: In addition to tuition and fees, and depending on chosen electives, ***Graphic Communications*** students may expect to pay an estimated $1000 for books and supplies needed for class projects in this two-year program.

Estimated Time to Completion: The AS in ***Graphic Communications*** degree can be completed in four semesters. It is recommended students wishing to finish in that amount of time follow the suggested schedule outlined below **specifically in regard to the sequencing of ART courses.**

Specialized Accreditation:

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
• demonstrate an understanding of current industry trends through selected reading materials, in class projects, and class trips • understand the history and establishment of the printing industry as it affects the past, present, and future of graphic communications • demonstrate an ability to properly follow safety regulations for working in an OSHA compliant environment • create comprehensive print-ready and digital publication files that meet current industry standards	1 – Acquire Substantive Knowledge
• create a detailed checklist of the information needed to create print-ready and digital project files • participate both in class and online discussions using proper grammar and well thought out responses • prepare and present new ideas and concepts to a group of students through class presentations and group work	2 – Communicate Effectively
• prepare artwork for print and digital outputs from design through file preparation using industry leading software • output projects using multiple printing processes including digital, offset, screen printing, and new printing technologies • prepare artwork as color separations, knock outs, overprints, and with variable data printing when applicable • safely operate printing press equipment, print, and finish projects	3 – Develop Quantitative Literacy
• use critical thinking skills to prepare complex impositions, dielines, and other pertinent graphic arts industry skills • use basic math calculations to estimate job pricing, commissions, discounts, cost centers, budgeted hourly rates, and paper pricing • learn how math is used in the graphic arts industry by calculating basic paper weights, resolution and image sizes, and other math related problems	4 – Think Critically and Creatively
• utilize industry standard software to complete print-ready documents • use industry standard software to complete digital publications • master industry standard prepress file preparation techniques • tour and/or intern at graphic communications industry companies	5 – Civic Engagement
• work in and/or tour professional printing companies • work collaboratively with professional organizations such as the Printing Industries of Utah • participate in hands-on printing activities at local printing companies	6 – Work Professionally and Constructively
• prepare artwork for print and digital outputs from design through file preparation using industry leading software • output projects using multiple printing processes including digital, offset, screen printing, and new printing technologies • prepare artwork as color separations, knock outs, overprints, and with variable data printing when applicable	7 – Develop Computer and Information Literacy
• work collaboratively with professional organizations such as the Printing Industries of Utah • understand the history and establishment of the printing industry as it affect the past, present, and future of graphic communications • prepare and present new ideas and concepts to a group of students through class presentations and group work • safely operate printing press equipment, print, and finish projects	8 – Lifelong Wellness

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE	CR	SEM	PREREQUISITE

ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing (EN)	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing (EN)	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-5 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1030	Quantitative Reasoning (QL)	3	A	RDG 0990; within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1040	Intro to Statistics (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1050	College Algebra (QL)	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1060	Trigonometry (QL)	3	A	RDG 0990; within last year MATH 1050 w/C grade or better or appropriate Accuplacer score
MATH 1080	Precalculus (QL)	5	A	Appropriate Accuplacer score within the last year
MATH 1090	College Algebra-Business (QL)	3	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score
MATH 1210	Calculus I (QL)	4	A	Within the last year, MATH 1060 or MATH 1080 w/C grade or better or appropriate Accuplacer score

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics (AI)	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

INTENSIVE (IN)

COURSE		CR	SEM	PREREQUISITE
BUS 2200	Business Communication	3	A	
COMM 1010	Elem Effective Comm	3	A	
COMM 1020	Prin Public Speaking	3	A	
COMM 1270	Analysis of Argument	3	F, Sp	
PHIL 1250	Reasn/Ratl Dec Making	3	A	
TECH 1030	Complex Devices Simplified	3	F,Sp	
OR				
DEPTH	Any second course from one of the Distribution Areas			

DISTRIBUTION AREAS (18 CREDITS)

Choose one course (three credit hours) from each of the following distribution areas. One of the courses must also be a Diversity course (DV).

COURSE	CR	SEM	PREREQUISITE	RECOMMENDED
Biological Science (BS)	3-4			
Fine Arts (FA)	3-4			ART 1020: Intro to Drawing ART 1050: Intro to Photo
Humanities (HU)	3			ART 2230: Photo; A Cultural History ARTH 2710: Art History: Prehis/Ren ARTH 2720: Ren/Cont
Interdisciplinary (ID)	3			CIS 1070: Living in a Digital World COMM 2110: Interpers Comm COMM 2500: Elem/Issues Digit Med
Physical Science (PS)	3			
Social Science (SS)	3			

REQUIRED COURSES: (26 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1120	Design	3	A	
ART 1135	Printing Fundamentals	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1120 and ART 1200 (both may be taken concurrently)
ART 1240	Screen Printing	3	SP	(**HIGHLY** recommended ART 2412)
ART 1280	Photoshop Software/Design	3	A	
ART 2120	eDesign & Publishing	3	SP	ART 1200 and ART 1230
ART 2200	Adv InDesign Software	2	SP	ART 1200 and ART 1230
ART 2412	Illustrator Software	3	FA/SP	

ELECTIVE COURSES: (SELECT 3 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math for Visual Arts	3	F, Sp	
ART 2000	Visual Art CO-OP	1-5	A	Sophomore standing, minimum 2.0 GPA, study related to employment working at least 20 hours per week, and instructor approval
ART 2010	History of Visual Art & Design	3	F	
ART 2080	VAD Internship	1-3	A	Instructor approval and second year status
ART 2140	Adv Photoshop-Sftwr/Des	2	FA/SP	ART 1250, ART 1810, ART 2340, or Instructor approval
ART 2220	Advanced Design	3	FA/SP	ART 1135 and ART 1230; take ART 2220 AFTER or concurrently w/ART 2230
ART 2230	Advanced Type & Layout	3	FA/SP	ART 1230; take ART 2230 BEFORE or concurrently w/ART 2220
ART 2420	Adv Illustrator Software	2	SP	ART 2412 or Instructor approval
ART 2440	Web Site Design	3	FA/SP	ART 1280 or ART 1800

Students completing an AS in ***Graphic Communications*** are encouraged to complete a 3 credit ART 2080 VAD Internship for their chosen elective.

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ART 1120	3	ART 1230	3
ART 1135	3	ART 2412	3
ART 1200	3	ART 2200	2
ENGLISH	3	ENGLISH	3
FINE ARTS	3	HUMANITIES	3
		DISTRIBUTION AREA	3
Total	**15**	**Total**	**17**
FALL SEMESTER		**SPRING SEMESTER**	
ART 1280	3	ART 1240	3
GCOM ELECTIVE	3	ART 2120	3
QUANTITATIVE LITERACY	3	AMERICAN INSTITUTIONS	3
LIFELONG WELLNESS	1	INTERDISCIPLINARY	3
DISTRIBUTION AREA	6	DISTRIBUTION AREA	3
Total	**16**	**Total**	**15**

Advising Notes:
Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the recommended sequence.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes:
For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit:
www.slcc.edu/students-current/resources

VISUAL ART & DESIGN: ANIMATION – ASSOCIATE OF SCIENCE (AS) 64 credits minimum

Visual Art & Design Department
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061.ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061.MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – Associate Professor, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica – *Instructor,* BS Graphic Design, MS Graphic Communications Technology Management
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Students who elect to pursue an AS Degree in Animation will prepare themselves to successfully transfer to an institution offering a four year Animation Degree. Students will work to develop foundation drawing and design skills, apply animation principles in time based visualizations, and illustrate a working knowledge of quality visual storytelling.

Career Opportunities: Animation artists find varied careers in the creation of digital 2D and 3D art and animation in the video game, film, broadcast, visual effects, mobile, and internet industries.

Transfer/Articulation Information: This Associate of Science (AS) degree meets the requirements to satisfy the lower division general education requirements for a baccalaureate degree at all Utah public institutions of higher education. Admission into a major program at a transfer institution depends upon the receiving institution's requirements for that major. Some major programs are restricted and require special application as well as a competitive GPA. See an Academic Advisor at both SLCC and the intended receiving institution for specific articulation information.

Program Entry Requirements:

Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with traditional drawing, computers, and Photoshop.

Total Program/Course Fees:
Approximately $500 depending on chosen electives. Fees are used for maintenance and upgrade of:

- Computers, software and supplies
- Servers, hosting, and storage space
- Traditional Animation lab
- Model fees and supplies

Estimated Cost for Students: In addition to tuition and fees, and depending on chosen electives, animation students may expect to pay an estimated $1000 for books and supplies needed for class projects and portfolio development in this two-year program.

Estimated Time to Completion: The Animation Emphasis is very rigorous and drawing intensive. If students follow Recommended Sequence, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy 8 – Develop the attitudes and skills for lifelong wellness
1. Demonstrate a competent application of foundation drawing and design skills.	1,2,4
2. Demonstrate a competent application of animation principles in a time based visualization.	1,2,3,4
3. Illustrate a working knowledge of quality visual storytelling.	1,2,4,5
4. Engage in collaborative production development practices and interdisciplinary experiences.	1,2,4,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 6 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score
ENGL 2010	Intermediate Writing	3	A	ENGL 1010 w/C grade or better
OR				
ENGL 2100	Technical Writing	3	A	ENGL 1010 w/C grade or better

QUANTITATIVE LITERACY (QL) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
MATH 1050	College Algebra	4	A	RDG 0990; within last year MATH 1010 w/C grade or better or appropriate Accuplacer score

OR

Any faculty approved higher level (above MATH 1050) QL course

AMERICAN INSTITUTIONS (AI) CHOOSE ONE COURSE (3 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
ECON 1740	Econ History of US	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
HIST 1700	American Civilization	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score
POLS 1100	US Govt & Politics	3	A	RDG 0990 w/C grade or better or appropriate Accuplacer score

INSTITUTIONAL REQUIREMENTS:

LIFELONG WELLNESS (LW) 1 CREDIT

STUDENT CHOICE (IN OR DEPTH) 3 CREDITS

INTENSIVE (IN)

OR

DEPTH

Any second course from one of the Distribution Areas

DISTRIBUTION AREAS:

Complete one 3-credit hour course from the list of General Education Distribution Areas (BS, FA, HU, ID, PS, SS). See SLCC General Catalog for complete list of approved courses. Students may wish to consult with a Faculty Advisor for assistance when selecting a Distribution Course.

COURSE	CR	SEM	PREREQUISITE
Biological Science (BS)	3-4		
Fine Arts (FA)	3-4		
Humanities (HU)	3		
Interdisciplinary (ID)	3		
Physical Science (PS)	3		
Social Science (SS)	3		

The following are **RECOMMENDED** distribution courses for Animation students.

COURSE		CR	SEM	PREREQUISITE
FLM 1023	Intro to Film (FA)	4	A	
FLM 1070	Film and Cult (FA, DV)	4	A	
PHYS 1010	Elem Physics (PS)	3	A	

COMPLETE THE FOLLOWING ANIMATION ARTS CORE COURSES: (30 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I	4	A	
ART 1120	Design	3	A	
ART 1260	Figure Drawing	3	A	ART 1110
ART 1620	Intro to Animation	2	F, Su	
ART 1660	Storyboarding	3	F, Sp	ART 1120 and 1620
ART 1670	Character Anim Basics	3	F	ART 1620 (for 2D) or ART 2640 (for 3D), and Instructor approval
ART 1800	Digital Media Essentials	4	A	
ART 2260	Adv Figure Draw	2	F	ART 1260
ART 2630	Intro to 3D Modeling	3	A	ART 1800 or Instructor approval
ART 2640	Intro to 3D Animation	3	F,Sp	ART 1620 and 2630, or Instructor approval

ANIMATION AS RECOMMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ENGL 1010	3	STUDENT CHOICE	3
QL	3-4	FLM 1023	4
ART 1110	4	PHYS 1010	3
ART 1620	2	ART 1120	3
ART 1800	4	ART 1260	3
Total	**16-17**	**Total**	**15-16**
3rd SEMESTER – FALL		**4th SEMESTER – SPRING**	
ENGL 2010	3	LW	1
AI	3	DISTRIBUTION (3)	9
DISTRIBUTION	3-4	ART 1660	3
ART 1670	3	ART 2640	3
ART 2260	2		
ART 2630	3		
Total	**17-18**	**Total**	**16**

Advising Notes:

Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in

order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the recommended sequence.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes:
For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit:
www.slcc.edu/students-current/resources

VISUAL ART & DESIGN: ANIMATION EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS)

64-69 credits minimum

Visual Art & Design Division
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC 1.061.ME, (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061.MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – *Associate Professor*, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica – *Assistant Professor*, BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – *Concurrent Enrollment Liaison, Instructor,* BFA Photography
RICHARDSON, Trudy – *Concurrent Enrollment Liaison, Instructor,* BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Students who elect to pursue an AAS Degree in Animation will prepare themselves for entry level work in an animation related profession. They develop foundation drawing and design skills, apply animation principles in time based visualizations, and illustrate a working knowledge of quality visual storytelling. Students should choose electives and projects carefully to develop a working competency of both the arts and technologies involved in at least one specific area of the discipline. The Animation Emphasis is very technically rigorous and drawing intensive. It requires careful scheduling of classes to complete the program in the recommended time.

Career Opportunities: Animation artists find varied careers in the creation of digital 2D and 3D art and animation in the video game, film, broadcast, visual effects, mobile, and internet industries.

Transfer/Articulation Information: This AAS Degree is currently not transferable to four year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credit may be granted by receiving institutions on a per case basis.

Program Entry Requirements:
Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with traditional drawing, computers, and Photoshop.

Total Program/Course Fees: Approximately $500 depending on chosen electives. Fees are used for maintenance and upgrade of:

- Computers, software and supplies
- Servers, hosting, and storage space

- Traditional Animation lab
- Model fees and supplies

Estimated Cost for Students: In addition to tuition and fees, and depending on chosen electives, animation students may expect to pay an estimated $1000 for books and supplies needed for class projects and portfolio development in this two-year program.

Estimated Time to Completion: If students follow Recommended Sequence, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Demonstrate a competent application of foundation drawing and design skills.	1,2,4
2. Demonstrate a competent application of animation principles in a time based visualization.	1,2,3,4
3. Illustrate a working knowledge of quality visual storytelling.	1,2,4,5
4. Engage in collaborative production development practices and interdisciplinary experiences.	1,2,4,5
5. Exhibit a working competency of both the arts and technologies involved in at least one specific area of the discipline.	1,2,3,4,5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any approved EN course

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermed Algebra	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

OR

Any faculty approved higher level (above MATH 1010) QL course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	

OR

Any approved CM course

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Seminar	2	F,Sp	Recommended: take first semester

OR

Any approved HR course

DISTRIBUTION AREAS: (3 CREDITS)

Complete one 3-credit hour course from the list of General Education Distribution Areas (BS, FA, HU, ID, PS, SS). See SLCC General Catalog for complete list of approved courses. Students may wish to consult with a Faculty Advisor for assistance when

selecting a Distribution Course.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

The following are **RECOMMENDED** distribution courses for Animation students.

COURSE		CR	SEM	PREREQUISITE
FLM 1023	Intro to Film (FA)	4	A	
FLM 1070	Film and Cult (FA, DV)	4	A	
PHYS 1010	Elem Physics (PS)	3	A	

ANIMATION EMPHASIS REQUIREMENTS

COMPLETE THE FOLLOWING VISUAL ARTS CORE COURSES: (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I Drawing	4	F, Sp	
ART 1120	Design	3	A	
ART 1260	Figure Drawing	3	A	ART 1110
ART 1800	Digital Media Essent	4	A	
ART 2110	Foundation II Drawing	4	Sp,Su	ART 1110 or 1020
ART 2470	Digital Video Prod	2	F, Sp	ART 1800, 1280, 2340 or instructor approval

COMPLETE ONE OF THE FOLLOWING PORTFOLIO COURSES: (2 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1850	Port/Career Prep	2	F, Sp	
ART 2490	Adv Study Comp/Graph	2	Sp	Instructor approval

COMPLETE ONE VISUAL ARTS ELECTIVE COURSE: (2-4 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART	Elective(s)	2-4		

COMPLETE THE FOLLOWING ANIMATION COURE COURSES: (15 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1620	Intro to Animation	2	F, Su	
ART 1660	Storyboarding	3	F, Sp	ART 1110 and 1620
ART 2630	Intro to 3D Modeling	3	A	ART 1800 or instructor approval
ART 2640	Intro to 3D Animation	3	F, Sp	ART 2630 and 1620, or instructor approval
ART 2670	Anim Prod Workshop	4	Sp	ART 1660 and 50 completed credit hours toward Animation Emphasis

COMPLETE 2 COURSES FROM THE FOLLOWING SPECIALIZATION COURSES*: (4-6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1670	Character Anim Basics	3	F	ART 1620 or 2640
ART 1680	Game Development	3	Sp	ART 1800
ART 2050	Vis Dev & Char Design	2	F	ART 1120 and 1260
ART 2480	Digital Painting	2	F, Sp	ART 2110 and (ART 1280 or 1800)
ART 2650	3D Char Design & Rigging	3	Sp	ART 2640
ART 2660	VFX & Compositing	3	F	ART 2640
ART 2665	3D Lighting & Rendering	3	F	ART 2630
ART 2680	Game Assets & Prod	3	F	ART 1680, ART 2640 and (CSIS 1350 or CSIS 1850)

COMPLETE MINIMUM OF 6 CREDITS FROM THE FOLLOWING ANIMATION ELECTIVES*: (6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1050	Intro to Photography	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1200 and ART 1120 (can be taken concurrently)
ART 1670	Character Anim Basics	3	F	ART 1620 or 2640
ART 1680	Game Development	3	Sp	ART 1800

ART 1690	Software Testing 1	1	F	ART 1680
ART 1810	Interm. Photo/Multi	2	F, Sp	ART 1800
ART 2050	Vis Dev & Char Design	2	F	ART 1120 and 1260
ART 2140	Adv Photoshop Sftwr/Des	2	F, Sp	ART 1280 or 1810 or 2340 or instructor approval
ART 2210	Illustration I	3	Sp	ART 1110, 2110 (can be taken concurrently) or instructor approval
ART 2260	Adv Figure Draw	2	F, Sp	ART 1260
ART 2270	Illustration II	3	F	ART 2210 or instructor approval
ART 2290	Adv Illustration	2	Sp	ART 2270 or instructor approval
ART 2412	Illustrator Software	3	F, Sp	
ART 2440	Web Site Design	3	F, Sp	ART 1800
ART 2480	Digital Painting	3	F, Sp	ART 1280 or 1800, and ART 2110
ART 2580	Web Animation	3	F, Sp	ART 2440
ART 2610	Multimedia/Authoring	2	F, Sp	ART 2440
ART 2620	Motion Graphics	2	F, Sp	ART 1230 and 1620
ART 2650	3D Char Design & Rigging	3	Sp	ART 2640
ART 2665	3D Lighting & Rendering	3	F	ART 2630
ART 2680	Game Assets & Prod	3	F	ART 1680, ART 2640 and (CSIS 1350 or CSIS 1850)
ART 2660	VFX & Compositing	3	F	ART 2640
ART 2900	Visual Art/Dsgn	1-3	-	Instructor approval
ART 2960	Spec Topics Anim	1-6	-	Instructor approval
COMM 2200	Begin Video Prod.	4	F, Sp	Recommended: ART 1800
COMM 2210	TV/Film Lighting Ess	2	A	
COMM 2570	Intro to Vis Comm (FA)	3	A	
CSIS 1350	Apps and Applets	4	F, Sp	
CSIS 1850	Obj Orient Prog/VArt	2	Sp	ART 1800 or equivalent
FLM 1023	Intro to Film (FA)	4	A	
MUSC 2570	Game Audio	3	F, Sp	MUSC 1515
PHYS 1010	Elem Physics (PS)	3	A	
THEA 1033	Acting I – Basic	3	A	

ANIMATION AAS EMPHASIS RECCOMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ENGL 1010	3	DISTRIBUTION	3-4
ART 1150	2	ART 1260	3
ART 1110	4	ART 1660	3
ART 1120	3	ART 2110	4
ART 1620	2	ART 2630	3
ART 1800	4		
Total	**18**	**Total**	**17-18**
3rd SEMESTER – FALL		**4th SEMESTER – SPRING**	
COMM 1010	3	MATH 1010	4
ART 2050	2	ART 2480	2
ART 2470	2	ART 2490	2
ART 2640	3	ART 2670	4
ELEC	4-6	ELEC	4-5
Total	**14-16**	**Total**	**16-17**

Advising Notes:

***EACH COURSE MAY ONLY BE USE ONCE TO FULFILL A VISUAL ART ELECTIVE, SPECALIZATION ELECTIVE, ANIMATION ELECTIVE, OR GENERAL EDUCATION DRISTRIBUTION AREA REQUIREMENT, UNLESS THE COURSE IS REPEATED AND IS REPEATABLE FOR CREDIT. Students should work with faculty advisor to choose electives and projects carefully to develop a working competency of both the art and technologies involved in at least one specific area of the discipline. Some courses may require prerequisites not required for completion of the program and not listed in the Recommended Sequence or degree requirements. Students wishing to take those courses should plan on extra time to complete the prerequisites.**

Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the **Recommended Sequence**.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes:
For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit:
www.slcc.edu/students-current/resources

VISUAL ART & DESIGN: GRAPHIC DESIGN EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 69 credits minimum

Visual Art & Design Department
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061.ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061 MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – *Associate Professor*, BFA Graphic Design
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica – *Assistant Professor,* BFA Graphic Design, MFA Graphic Communications Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Assistant Professor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, graphic design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Students who elect to pursue an AAS Degree in Graphic Design will prepare themselves for entry level work in various applications of visual art, graphic design and advertising. Graphic creativity and proficiency in current computer programs necessary for employment in the graphic design field are integral parts in this program.

Graphic designers are responsible for the creative concept, design, layout and execution of printed and digital materials such as ads, brochures, logos, annual reports, catalogs, signs, packaging and posters.

Career Opportunities upon Completion of Program: Students who elect to specialize in Graphic Design receive job-entry skills and training in various applications of visual art, graphic design and advertising.

Students awarded a Graphic Design Degree may find jobs in a variety of industries such as: Graphic Design, Package Design, Advertising & Marketing, TV & Film, Book & Magazine Publishing, Printing, Web Design, Animation, Textile Design, Tradeshow & Exhibit Design, Game Design, Research and Public Relations.

Positions may include: Creative Director, Associate Creative Director, Senior Art Director, Art Director, Jr. Art Director, Sr. Graphic Designer, Jr. Graphic Designer, Senior Production Artist, Entry-level Production Artist, Production Manager, Production Associate, Production Assistant, Design Manager, Graphic Design Engineer, Web Designer, Composition Technician, Desktop Publishing Technician, Prepress Department Technician, Paper Representative, Printing Representative, etc.

Transfer/Articulation Information: This AAS Degree is currently not transferable to four-year institutions; however, some of the General Education components are transferable. The Visual Art & Design/Graphic Design Program is committed to general

and pre-professional programs and some credit may be granted by receiving institutions on a per case basis (See Utah System of Higher Education Institutions).

Program Entry Requirements:

Required: High School Diploma or equivalent.

Recommended: Artistic and technical aptitude, familiarity with computers.

Total Program/Course Fees: Approximately $250 for all course fees to complete program.

- Computers, computer programs and supplies
- Offset printing equipment and supplies
- Model fees and supplies

Estimated Cost for Students: In addition to tuition and fees, Graphic Design students may expect to pay at least $1,500 for books and supplies needed for class projects and portfolio development in this two-year program.

Estimated Time to Completion: If students follow the recommended sequence, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Demonstrate an acquired knowledge of and ability to apply: • The principles and elements of design. • The history, development and usage of typography. • The study of page layout and how it may be applied to real world design / layout jobs in advertising agencies, graphic design studios, commercial print companies, etc.	1, 2, 4
Demonstrate an acquired knowledge of and ability to apply: • TRADITIONAL (hand rendered) mechanical skills and techniques as a means to complete thumbnail and rough conceptualization studies. • TRADITIONAL (hand rendered) representational, stylistic and figure drawing skills.	1, 2, 3, 4
Demonstrate an acquired knowledge of and ability to apply: • TECHNICAL usage of computer software program skills and vocabulary needed in the design and printing industry. • TECHNICAL usage of paper, printing methods, color application, production and graphic standards.	1, 2, 3, 4, 5
Demonstrate an acquired knowledge of and ability to apply: • Personal responsibility, professional and constructive work habits. • Organizational and time/project management skills. • Positive communication with others, in order to discuss ideas, theories and opinions needed for effective business interaction. • Implementation of the design process, brainstorming, planning and goal performance needed to produce effective presentations and comprehensive portfolio development.	1, 2, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any EN designated course

QUANTITATIVE STUDIES (QS) 3CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math for Vis Arts (QS) (Suggested)	3	A	

OR

Any faculty approved higher level (above ART 1210) QS or QL designated course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem of Effective Comm	3	A	

OR

Any approved CM designated course

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Sem (Suggested)	2	A	

OR

Any HR designated course

DISTRIBUTION AREAS: (3 CREDITS)

Students must take one 3-credit hour course from the list of General Education Distribution Areas (BS, FA, HU, ID, PS, SS) See SLCC General Catalog for complete list of approved courses. It is the student's responsibility to fulfill any course prerequisites. VAD Graphic Design students may wish to consult with an advisor for assistance when selecting a GE Distribution course.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

GRAPHIC DESIGN EMPHASIS REQUIREMENTS: (55 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I Drawing	4	A	
ART 1120	Design	3	A	
ART 1135	Printing Fundamentals	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1200 and ART 1120 (either may be taken concurrently)
ART 1260	Figure Drawing	3	A	ART 1110
ART 1280	Photoshop Software/Des	3	A	
ART 2010	History of Art & Design	3	F, Sp	
ART 2070	Portfolio Development	3	F, Sp	ART 2230 (Graphic Design Emphasis) or ART 2270 (Illustration Emphasis) or Instructor approval
ART 2110	Foundation II Drawing	4	F, Sp	ART 1110
ART 2220	Advanced Design	3	F, Sp	ART 1135 and ART 1230; take ART 2220 AFTER or concurrently w/ART 2230
ART 2230	Adv Type & Layout	3	F, Sp	ART 1230; take ART 2230 BEFORE or concurrently w/ART 2220
ART 2240	Package Design	3	F, Sp	ART 1135 and ART 2230
ART 2280	Advertising Workshop	3	Sp	ART 2230
ART 2412	Illustrator Software	3	F, Sp	
ART 2440	Web Site Design	3	F, Sp	ART 1280
ART 2580	Web Animation	3	F, Sp	ART 2440

ART ____	Elective	2	A	Varies

GRAPHIC DESIGN EMPHASIS ELECTIVES

Courses requiring prerequisites must have those prerequisites fulfilled before the elective can be taken. Choose from the following Graphic Design Emphasis Electives:

COURSE		CR	SEM	PREREQUISITE
ART 1050	Intro to Photography (FA)	3	A	
ART 1620	Animation I	5	Sp	ART 1110 and Instructor approval
ART 1240	Screen Printing	3	F, Sp	
ART 1310	Photography I	4	A	
ART 1320	Photo Vision	3	F, Sp	w/ART 1310 or ART 1050 (either may be taken concurrently)
ART 1530	Beg Painting – Watercolor	3	A	
ART 1540	Beg Painting – Oil	3	A	
ART 1620	Intro to Animation	2	F	
ART 1660	Storyboarding	3	Sp	ART 1120 and ART 1620
ART 1900	Independent Studies	1-4	A	Instructor approval
ART 2140	Adv Photoshop Sftwr/Des	2	F, Sp	ART 1280 or ART 1810 or ART 2340 or Instructor approval
ART 2200	Adv InDesign Software	2	Sp	ART 1200 or Instructor approval
ART 2210	Illustration I	3	Sp	ART 2110 or with ART 2110
ART 2420	Adv Illustrator Software	2	Sp	ART 2412 or Instructor approval
ART 2530	Adv Painting – Watercolor	3	A	ART 1530
ART 2540	Adv Painting – Oil	3	A	ART 1540
ART 2550	Website Design II	3	F	ART 2440
ART 2940	Spec Topics Design	1-6	A	Instructor approval
ART 2990	Adv Independent Studies	1-3	A	Instructor approval

RECOMMENDED SEQUENCING – AAS VAD / GRAPHIC DESIGN COURSES

RECOMMENDED SEQUENCE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1110	4	ART 1210	3
ART 1120	3	ART 1230	3
ART 1135	3	ART 1280	3
ART 1150	2	ART 2412	3
ART 1200	3	COMM	3
ENGL 1010	3	GRAPHIC DESIGN ELEC	2
Total	**18**	**Total**	**17**
3rd SEMESTER – FALL		**4th SEMESTER – SPRING**	
ART 1260	3	ART 2110	4
ART 2010	3	ART 2070	3
ART 2220	3	ART 2240	3
ART 2230	3	ART 2280	3
ART 2440	3	ART 2580	3
DISTRIBUTION	3		
Total	**18**	**Total**	**–16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the recommended sequence.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

VISUAL ART & DESIGN: ILLUSTRATION EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 68 credits minimum

Visual Art & Design Department
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061.ME, (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061.MD, (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – *Associate Professor*, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor*, BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – *Concurrent Enrollment Liaison, Instructor,* BFA Photography
RICHARDSON, Trudy – *Concurrent Enrollment Liaison, Instructor,* BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Students who elect to pursue an AAS Degree in Illustration will prepare themselves for entry level work for traditional and computer illustration. Students who are preparing for this area of specialization should acquire a high level of drawing skill.

Career Opportunities: Students can develop a diverse portfolio of original imagery created in various traditional and digital media so students can compete for assignments and staff positions in editorial illustration (including book illustration), advertising illustration, web illustration, and the digital game development industry. Students should understand that it generally takes between 3-5 years to hone a personal, recognizable illustration style and to establish a viable illustration practice.

Transfer/Articulation Information: This AAS Degree is currently not transferable to four year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credit may be granted by receiving institutions on a per case basis.

Program Entry Requirements:
Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with traditional drawing, computers, and Photoshop.

Total Program/Course Fees: Approximately $250
Fees are used for maintenance and upgrade of:
- Computers, software and supplies
- Servers, hosting, and storage space
- Model fees and supplies

Estimated Cost for Students: In addition to tuition and fees, illustration students may expect to pay at least $1000 for books and supplies needed for class projects and portfolio development in this two-year program.

Estimated Time to Completion: If students follow Recommended Sequence, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Design / Composition / Visual Communication Process Demonstrate an understanding of: 1a. The principles and elements of design. 1b. Visual and conceptual theories and processes of composition for design. 1c. Use of critical and symbolic thinking to communicate visually	1
2. Media / Technique Demonstrate proficiency in: 2a. Drawing within a studio (real life) setting and situation. 2b. Controlling traditional illustration wet and dry media. 2c. Handling and applying digital illustration applications and programs. 2d. Employing photography for illustrative ends.	1
3. Drawing Demonstrate proficiency in: 3a. Representational drawing capabilities. 3b. Stylistic or interpretive drawing pursuits (cartoons/caricatures). 3c. Human or figurative drawing, from life, printed reference and mental imagery.	1
4. Industry / Business / Portfolio Demonstrate a comprehension of, and tangible evidence of, commercial art as a career pursuit: 4a. In creating a personal work presentation (portfolio) 4b. Attending guest artist lectures, workshops and presentations 4c. By visiting galleries 4d. Through researching business requirements and practices 4e. Through civic engagement students can accomplish a diverse portfolio that reflects cultural, promotional, and service goals.	1

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any approved EN course

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math for Vis Arts	3	A	

OR

Any faculty approved higher level (above ART 1210) QS or QL course

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE

COMM 1010	Elem Effective Comm	3	A	
OR				
Any approved CM course				

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Sem	2	F, Sp	
OR				
Any approved HR course				

DISTRIBUTION AREAS: (3 CREDITS)

Complete one 3-credit hour course from the list of General Education Distribution Areas (BS, FA, HU, ID, PS, SS). See SLCC General Catalog for complete list of approved courses. Students may wish to consult with a Faculty Advisor for assistance when selecting a Distribution Course.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

ILLUSTRATION EMPHASIS REQUIREMENTS: (56 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I	4	F, Sp	
ART 1120	Design	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1200 and ART 1120 (either may be taken concurrently)
ART 1260	Figure Drawing	3	A	ART 1110
ART 1280	Photoshop Software/Des	3	A	
ART 1310	Photography I	4	A	
ART 1010	Exploring Art	3	A	
OR				
ART 2010	History of Art & Design	3	F, Sp	
ART 2070	Portfolio Development	3	F, Sp	ART 2230 (Graphic Design Emphasis) or ART 2270 (Illustration Emphasis) or Instructor Approval
ART 2110	Foundation II	4	F, Sp	ART 1110 or ART 1020
ART 2210	Illustration I	3	Sp	ART 1110 and ART 2110 (can be taken concurrently) or Instructor approval
ART 2260	Adv Figure Draw	2	F Sp	ART 1260
ART 2270	Illustration II	3	F	ART 2210
ART 2290	Adv Illustration	2	Sp	ART 2270
ART 2412	Illustrator Software	3	F, Sp	
ART 2480	Digital Painting	2	F, Sp	ART 1800 and ART 2110
ART 2520	Adv Drawing	2	F	ART 1110 or Instructor approval
ART 2560	Figure Painting	3	Sp	ART 1260 and ART 2110

COMPLETE ONE ILLUSTRATION ELECTIVE COURSE: (2-3 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 2050	Vis Dev & Character Des	2	F	
ART 2440	Web Site Design	3	F, Sp	ART 1280

ILLUSTRATION AAS EMPHASIS RECOMMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1110	4	ART 2110	4
ART 1150	2	ART 1200	3
ART 1120	3	ART 1210	3
ART 1310	4	ART 1260	3
ART 1280	3	ART 2210	3
		COMM 1010	3
Total	**16**	**Total**	**19**
3rd SEMESTER – FALL		**4th SEMESTER – SPRING**	
ART 1230	3	ART 2070	3
ART 2260	2	ART 2290	2
ART 2270	3	ART 2560	3
ART 2412	3	ART 2480	2
ART 2520	2	ENGL 1010	3
ART 1010/2010	3	ELEC	2-3
ELEC	2		
Total	**18**	**Total**	**15-16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the recommended sequence.

Not all Visual Art and Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

VISUAL ART & DESIGN: MULTIMEDIA EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 65credits minimum

Visual Art & Design Department
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – Associate Professor, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor,* BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – *Concurrent Enrollment Liaison, Instructor,* BFA Photography
RICHARDSON, Trudy – *Concurrent Enrollment Liaison, Instructor,* BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Students who elect to pursue an AAS Degree in Multimedia will prepare themselves for entry-level work using industry applications for authoring multimedia content for diverse delivery mediums, including internet, mobile devices, HDTV content and turn key applications. In addition, students will become adept at using computers to edit sound and video, create 3D graphics, animation and digital artwork, as well as designing/producing printed collateral and developing websites. These technical skills are complimented by courses that will provide the opportunity to acquire solid art and design abilities. Those with a propensity for learning technical concepts and a creative and artistic aptitude will enjoy the exciting field of multimedia.

Career Opportunities: Multimedia artists create digital 2D and 3D art and animation and use authoring tools to build digital applications for use on the World Wide Web and in corporate, educational or entertainment titles. Students who follow this track will earn an AAS Degree in Visual Art & Design/Multimedia Emphasis.

Transfer/Articulation Information: This AAS Degree is currently not transferable to four year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credit may be granted by receiving institutions on a per case basis.

Program Entry Requirements:
Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with traditional drawing, computers, and Photoshop.

Total Program/Course Fees: Approximately $250
Fees are used for maintenance and upgrade of:
- Computers, software and supplies
- Servers, hosting, and storage space

- Model fees and supplies
- Projection technologies

Estimated Cost for Students: In addition to tuition and fees, illustration students may expect to pay at least $1000 for books and supplies needed for class projects and portfolio development in this program.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Design / Composition / Process Demonstrate an understanding of: The principles and elements of design, Visual and conceptual theories and processes of composition for design, How each of these objectives may be applied to real world design and layout jobs in agencies, graphic design studios, commercial print companies and web site design companies.	1, 2, 4
Media / Technique Demonstrate proficiency in: Drawing and Design, Image Editing, video production and 3D Animation, Web Site Development and Flash Development as needed in the multimedia industry.	1, 2, 4
Portfolio Development Demonstrate an understanding and comprehensive portfolio of image editing, video editing, sound editing, and web site design by compiling a final project or portfolio, Using sound, video, web, image software to create a final portfolio, Through researching business requirements and practices students will begin to make the transition from school to industry.	1, 2, 3, 4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any approved EN course

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Acccuplacer score

OR

Any faculty approved higher level (above MATH 1010)QL course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	

OR

Any approved CM course

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Sem	2	F, Sp	

OR

Any approved HR course

DISTRIBUTION AREAS: (3 CREDITS)

Complete one 3-credit hour course from the list of General Education Distribution Areas (BS, FA, HU, ID, PS, SS). See SLCC General Catalog for complete list of approved courses. Students may wish to consult with a Faculty Advisor for assistance when selecting a Distribution Course.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

MULTIMEDIA EMPHASIS REQUIREMENTS: (48 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I	4	F, Sp	
ART 1120	Design	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1200 and ART 1120 (either may be taken concurrently)
ART 1260	Figure Drawing	3	A	ART 1110
ART 1800	Digital Media Essentials	4	A	
ART 1810	Interm Photo/Multi	2	F, Sp	ART 1800
ART 2110	Foundation II	4	F, Sp	ART 1110 or 1020
ART 2230	Adv Type & Layout	3	F, Sp	ART 1230; take ART 2230 BEFORE or concurrently w/ART 2220
ART 2412	Illustrator Software	3	F, Sp	
ART 2440	Web Site Design	3	F, Sp	ART 1280 or ART 1800
ART 2470	Digital Video Production	2	F	ART 1280, ART 1800, ART 2340 or Instructor approval
ART 2480	Digital Painting	2	F, Sp	ART 1280 or ART 1800, and ART 2110
ART 2490	Adv Computer Graphics	2	Sp	Instructor approval
ART 2580	Web Animation	3	F, Sp	ART 2440
ART 2630	Intro to 3D Modeling	3	F, Sp	ART 1800 or Instructor approval
CSIS 1850	Obj Orient Prog/Visual Art	2	SP	ART 2440

ART ELECTIVE COURSE: (SELECT 1-2 CREDITS)

MULTIMEDIA AAS EMPHASIS RECOMMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1110	4	ART 2110	4
ART 1150	2	ART 1120	3
ART 1200	3	ART 1230	3
ART 1800	4	ART 1810	2
MATH 1010	4	ART 2412	3
		ENGL 1010	3
Total	**17**	**Total**	**18**
3rd SEMESTER – FALL		**4th SEMESTER – SPRING**	
ART 1260	3	ART 2230	3
ART 2440	3	ART 2490	2
ART 2470	2	ART 2580	2
ART 2480	2	ART ELEC	1-2
ART 2630	3	COMM 1010	3
DISTRIBUTION	3	CSIS 1850	2
Total	**16**	**Total**	13-14

Advising Notes:
Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the Recommended Sequence.

Not all Visual Art and Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

VISUAL ART & DESIGN: PHOTOGRAPHY EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) 63 – 64 credits minimum

Visual Art & Design Department
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – Associate Professor, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor,* BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – *Concurrent Enrollment Liaison, Instructor,* BFA Photography
RICHARDSON, Trudy – *Concurrent Enrollment Liaison, Instructor,* BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Photography is widely used in visual art and design, including fine art. Students who elect to pursue the AAS Degree in Visual Art & Design's Photography Emphasis will become acquainted with, and gain competencies in, all aspects of the photographic arts. Competencies will include: film and digital camera operation, studio and existing lighting control, working in both digital and film environments to produce color and black and white imagery. This prepares students to work as freelance photographers or continue their education for an advanced degree. Students will learn various visual art business practices and they will prepare a professional portfolio. The final and exit portfolio is a required component of the Photography Program and is designed to obtain an entry-level job within one of the many photography related career paths.

The photography emphasis student must have access to fully adjustable camera equipment (digital SLR) and additional equipment and supplies as required for this program and its various courses.

Career Opportunities: Photographers provide traditionally and digitally produced images appropriate for use in advertising and design applications including; web, stock, commercial, and editorial photography. Photographers also work as portrait, documentary and fine art photographers. Students who follow this track will earn an AAS Degree in Visual Art & Design/Photography Emphasis. Professional photography positions such as freelance photographer, portrait photographer, fine art photographer, commercial photographer, photographic assistant, digital lab tech / lab aid, photographic representative and sales person will be attainable by the student.

Transfer/Articulation Information: This AAS Degree is currently not transferable to four year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credit may be granted by receiving institutions on a per case basis. Students desiring to transfer to a four-year institution in Photography should contact Asst. Professor Terry Martin, terry.martin@slcc.edu.

Program Entry Requirements: All students interested in majoring in photography must have their own 35mm, digital SLR camera and/or medium format camera with full manual capabilities. All prerequisite courses must be completed with a grade of C or better to continue in the program.

Total Program/Course Fees: $225-$265 in class/lab fees.

Estimated Cost for Students: $1,000 over the two-year period. This is an estimate for the specific photographic supplies that students will need to purchase in order to complete the assignments and outlined objectives. This amount does not include a camera.

Estimated Time to Completion: If students follow Recommended Sequence, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Foundations of Art: Graduates will demonstrate competent application and produce high quality photographic images that exhibit an understanding of visual art and design skills, and visual controls.	1, 2, 3, 4
2. Film and Digital Image Capture: Graduates will demonstrate competent applications and produce images that exhibit an understanding of: • Advanced level exposure control • Comprehension of Gray Scale/Zone System • White Balance • Focus control • Composition	1, 2, 3 4
3. Computation/Marketing/ Business Skills: Graduates will demonstrate competent applications of business and marketing knowledge, professionalism, & communication skills for employment within the photographic industry.	1, 3,4, 5
4. Printing Film Negatives and Digital Files: Graduates will demonstrate competent applications of printing both digital files and traditional film to create high quality portfolio level color and/or black and white prints.	1, 3, 2, 4
5. Natural / Existing Light and Artificial Light: Graduates will produce high quality images that exhibit an industry level understanding and control of light theory as it applies to photography.	1, 2, 4

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any approved EN course

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math for Vis Arts	3	A	

OR

Any faculty approved higher level (above ART 1210) QS or QL course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	
OR				
Any approved CM course				

HUMAN RELATIONS (HR) 2 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Sem	2	F, Sp	
OR				
Any approved HR course				

DISTRIBUTION AREAS: (3 CREDITS)

Complete one 3-credit hour course from the list of General Education Distribution Areas (BS, FA, HU, ID, PS, SS). See SLCC General Catalog for complete list of approved courses. Students may wish to consult with a Faculty Advisor for assistance when selecting a Distribution Course.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

PHOTOGRAPHY EMPHASIS REQUIREMENTS: (37 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I	4	F, Sp	
OR				
ART 1020	Intro to Drawing (FA)	3	A	
ART 1120	Design	3	A	
ART 1310	Photography I	4	A	
ART 1320	Photo Vision	3	F, Sp	ART 1310 or ART 1050 or either concurrently
ART 1340	Photo Lighting & Equip 1	4	Sp	ART 1310 can be taken concurrently w/ART 1380
ART 1380	Photography II	4	A	ART 1310 w/C grade or better
ART 2310	Photo Light & Equip 2	4	F	ART 1340 and ART 1380
ART 2330	Photo; Cultural Hist (HU)	3	F, Sp	
ART 2340	Photoshop for Photo	3	F, Sp	ART 1380
ART 2380	Adv Studies in Photo	4	Sp	ART 2310
ART 2370	Photo Business Practices	3	Sp	ART 2310
ART 2375	Photo Portfolio Develop	1	Sp	ART 2310

PHOTOGRAPHY ELECTIVE COURSES: (SELECT A MINIMUM OF 7 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ART 1375	Photo Diversity (FA, DV)	3	F, Sp	ART 1050 or ART 1310 w/C grade or better
ART 2300	Alternative Photo	3	Sp	ART 1310
ART 2350	Photo People/Portrait	3	F	ART 2310 (can be taken concurrently)
ART 2360	Nature Photography	3	Sp	ART 1380
ART 2910	Photo Fieldtrip Wksp	3	Sp	Instructor Approval
ART 2970	Spec Topics Photography	1-6	TBA	Instructor approval
ART 2990	Adv Independent Studies	1-3	A	Instructor approval

NON-PHOTOGRAPHY ART OR FLM ELECTIVES: 3 cr

(CHOOSE A NON-PHOTOGRAPHY ART COURSE FROM THE VISUAL ART & DESIGN DEPARTMENTAL ELECTIVES, OR FLM 1045 BEGINNING FILM PRODUCTION) See additional for Photo Electives, ART/FLM Electives, General Education Core Skills Requirements, and General Education Distribution Area Requirements.

PHOTOGRAPHY AAS EMPHASIS RECCOMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1110/ART 1020	3/4	ART 1120	3
ART 1150 or HR	2-3	ART 1340	4
ART 1310	4	ART 1380	4
ART 1320	3	ART 1210 or QS/QL	3
ENGL 1010	3	COMM	3
Total	**15-16**	**Total**	**17**
3rd SEMESTER – FALL		**4th SEMESTER – SPRING**	
ART NON PHOTO ELEC	3	ART 2370	3
ART 2310	4	ART 2375	1
ART 2330	3	ART 2380	4
ART 2340	3	PHOTO ELEC	1-3
PHOTO ELEC	3	PHOTO ELEC	3
		DISTRIBUTION	3
Total	**16**	**Total**	**15-17**

Advising Notes:
Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the Recommended Sequence.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

VISUAL ART & DESIGN: WEB DESIGN EMPHASIS – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 68 credits minimum

Visual Art & Design Department
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – Associate Professor, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor,* BFA Graphic Design, MFA Graphic Communications Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Assistant Professor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – *Concurrent Enrollment Liaison, Instructor,* BFA Photography
RICHARDSON, Trudy – *Concurrent Enrollment Liaison, Instructor,* BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Students who elect to pursue an AAS degree in Web Design will prepare themselves for entry-level work in the design, creation, and maintenance of websites. Web Design students will obtain both creative and technical skill sets in Web Design, XHTML, CSS and JavaScript alongside structural knowledge of web marketing, web animation, e-Commerce, the social and mobile web.

Career Opportunities: Web Design artists find varied careers in the design, creation, and maintenance of websites in the promotion, film, broadcast, visual effects, mobile, and internet industries.

Transfer/Articulation Information: This AAS Degree is currently not transferable to four year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credit may be granted by receiving institutions on a per case basis.

Program Entry Requirements:
Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with traditional drawing, computers, and Photoshop.

Total Program/Course Fees: depending on chosen electives approximately $500. Fees are used for maintenance and upgrade of:

- Computers, software and supplies
- Servers, hosting, and storage space
- Projection technologies

Estimated Cost for Students: In addition to tuition and fees, and depending on chosen electives, web design students may expect to pay an estimated $500 for books, hosting and supplies needed for class projects and portfolio development in this two-year program.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Demonstrate substantive knowledge of the principles and elements of design.	1, 2, 4
Demonstrate competent application and execution to industry standards of current web page front-end programming technologies.	1, 2, 3, 4
Illustrate competent mastery of current web design and development software.	1, 4, 5
Prove proficiency in social, promotional, and mobile web marketplaces utilizing ethical practices.	1, 2, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any approved EN course

QUANTITATIVE STUDIES (QS) 4 CREDITS

COURSE		CR	SEM	PREREQUISITE
MATH 1010	Intermediate Algebra	4	A	RDG 0900; within the last year MATH 0990 w/C grade or better or appropriate Acccuplacer score

OR

Any faculty approved higher level (above MATH 1010) QS or QL course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	

OR

Any approved CM course

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Sem	2	F, Sp	

OR

Any approved HR course

DISTRIBUTION AREAS: (3 CREDITS)

Complete one 3-credit hour course from the list of General Education Distribution Areas (BS, FA, HU, ID, PS, SS). See SLCC General Catalog for complete list of approved courses. Students may wish to consult with a Faculty Advisor for assistance when selecting a Distribution Course.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3

Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

The following are **RECOMMENDED** distribution courses for Web Design students

COURSE		CR	SEM	PREREQUISITE
ART 1050	Intro to Photo (FA)	3	A	
COMM 2570	Intro to Vis Comm (FA)	3	A	

WEB DESIGN EMPHASIS REQUIREMENTS

COMPLETE THE FOLLOWING VISUAL ARTS CORE COURSE REQUIREMENTS: (23 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I	4	F, Sp	
ART 1120	Design	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1200 and ART 1120 (either may be taken concurrently)
ART 1810	Interm Photo/Multi	2	F, Sp	
ART 1800	Digital Media Essentials	4	A	
ART 2110	Foundation II	4	F, Sp	ART 1110 or ART 1020

COMPLETE THE FOLLOWING WEB DESIGN CORE COURSES: (22 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 2400	Web Project Management	3	Sp	ART 2440 and ART 2550
ART 2440	Web Site Design	3	A	ART 1280 or ART 1800
ART 2550	Website Design II	3	F, Sp	ART 2440 w/C grade or better
ART 2570	E-Commerce Design	2	F	ART 2440
ART 2580	Web Animation	3	F, Sp	ART 2440
ART 2590	Dynamic Web Design	4	Sp	ART 2440 and ART 2550
COMM 2525	Web Site Promotion	4	F, Sp	ART 2440

COMPLETE ONE THE FOLLOWING WEB DESIGN CORE COURSES: (2 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1850	Portfolio Career Prep	2	F, Sp	
ART 2490	Adv Computer Graphics	2	Sp	Instructor approval

COMPLETE MINIMUM OF 6 CREDITS FROM THE FOLLOWING WEB DESIGN ELECTIVE COURSES: (6 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1050	Intro to Photo (FA)	3	A	
ART 2140	Adv Photoshop/Des	2	F, Sp	ART 1250 or ART 1810 or ART 2340 or **I**nstructor approval
ART 2230	Adv Type & Layout	3	F, Sp	ART 1230; take ART 2230 BEFORE or concurrently w/ART 2220
ART 2412	Illustrator Software	3	F, Sp	
ART 2470	Digital Video Production	2	F	ART 1280, ART 1800, ART 2340 or **I**nstructor approval
ART 2480	Digital Painting	2	F, Sp	ART 1280 or ART 1800, and ART 2110
ART 2660	Visual Effects & Comp	3	F	ART 2640
ART 2900	Visual Art/Des Seminar	1-3	TBA	Instructor approval
ART 2980	Spec Topics Multimedia	1-6	TBA	Instructor approval
COMM 2400	Web 2.0 Strategies	3	F, Sp	ART 2440
COMM 2570	Intro Visual Comm (FA)	3	A	
CSIS 1850	Obj Orient Prog/Visual Art	3	Sp	ART 2440
ART 2510	Mobile Publishing Seminar	3	F, Sp	ART 1200

WEB DESIGN AAS EMPHASIS RECOMMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
MATH 1010	4	ENGL 1010	3
ART 1110	4	ART 1810	2
ART 1120	3	ART 1230	3
ART 1800	4	ART 2440	3
ART 1200	3	ART 1150	2
		ART 2110	4
Total	**18**	**Total**	**17**

3rd SEMESTER – FALL		4th SEMESTER – SPRING	
ART 2580	3	ART 2590	4
ART 2550	3	ART 2490	2
ART 2570	2	ART 2400	3
COMM 2525	4	COMM 1010	3
ELEC	3-4	ELEC	3-4
DISTRIBUTION	3		
Total	**18-19**	**Total**	**15-16**

Advising Notes:
Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the Recommended Sequence.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

GRAPHIC COMMUNICATIONS – CERTIFICATE OF COMPLETION[CTE]

34-36 credits minimum

Visual Art & Design Division
South City Campus
General Information, (801) 957-4073
Program Information, (801) 957-3361
www.slcc.edu/visualart
Academic Advisor, Cindy Clark, SC W138, (801) 957-3114
Academic Advisor, Gordon Storrs, SC W138, (801) 957-3114

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent –*Associate Professor*, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor*, BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: Students with an aptitude in creative problem solving, drawing, design, photography and/or computer related visual communication should consider this rapidly expanding and competitive field. The Visual Art & Design Department allows students to specialize in the following areas: Animation, Graphic Design, Illustration, Multimedia, Photography, Web Design, and Graphic Communications Technologies.

Students who elect to pursue a Certificate of Completion in Graphic Communications Technologies will prepare themselves for entry level work in the graphic communications industry (printing). In this certificate program students use standard software programs, basic printing techniques, and technical procedures to prepare materials for both traditional publishing (printing) and new digital publishing technologies (tables and digital devices).

Career Opportunities: Upon completion of this certificate, students may find entry-level design and layout positions in the Graphic Communications industry including but not limited to printing, publishing, and web design related careers. Students may elect to work in customer service, sales, production coordination, estimating, or prepress, etc…

Transfer/Articulation Information: This certificate is currently not transferable to four-year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credit may be granted by receiving institutions on a per case basis.

Program Entry Requirements:

Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with computers is essential.

Total Program/Course Fees: Approximately $250 for all course fees to complete program.

- Press Supplies
- Computers, software and supplies
- Servers, hosting, and storage space

Estimated Cost for Students: In addition to tuition and fees, and depending on chosen electives, Graphic Communications Technologies students may expect to pay an estimated $500 for books and supplied needed for class projects in this one-year program.

Estimated Time to Completion: If students follow the recommended semester schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Through the successfully completion of this certificate students will be able to: • read and comprehend selected educational materials relevant to current industry trends • read and comprehend selected educational materials relevant to the history and establishment of the printing industry • understand proper safety regulations for working in an OSHA compliant environment • create comprehensive print-ready and ready publication files that meet industry standards	1
Through the successfully completion of this certificate students will be able to: • create a detailed checklist of the information needed to create print-ready and digital project files • participate in both in-class and online discussions using proper grammar and well thought out responses • prepare and present new ideas and concepts to a group of students through class presentations and group work	2
Through the successfully completion of this certificate students will be able to: • prepare artwork for print and digital outputs from design through file preparation using industry leading software • output projects using multiple printing processes including digital, offset, and screen printing • prepare artwork as color separations, knock outs, overprints, and with variable data printing when applicable • safely operate printing press equipment, print, and finish projects	3
Through the successfully completion of this certificate students will be able to: • use critical thinking skills to prepare complex impositions, die lines, and other pertinent graphic arts industry skills • use basic math calculations to estimate job pricing, commissions, discounts, cost centers, budgeted hourly rates, and paper pricing • learn how math is used in the graphic arts industry by calculating basic paper weights, resolution and image sizes, and other math related problems	~~4~~
Through the successfully completion of this certificate students will be able to: • use industry standard software to complete print-ready documents • use industry standard software to complete digital publications • master industry standard prepress file preparation techniques • tour and/or intern at graphic communications industry companies	5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any approved EN course

QUANTITATIVE STUDIES (QS) 3-4 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math for Visual Arts	3	F, Sp	
OR				
MATH 1010	Intermed Algebra	4	A	RDG 0900 w/C or better and within the past year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

OR

Any faculty approved higher level (above MATH 1010) QS course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	

OR

Any approved CM course

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Sem	2	F, Sp	Recommended: take first semester

OR

Any approved HR course

GRAPHIC COMMUNICATIONS TECHNOLOGIES CORE REQUIREMENTS: (25 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1120	Design	3	A	
ART 1135	Printing Fundamentals	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1200 and ART 1120 (either may be taken concurrently)
ART 1240	Screen Printing	3	Sp	
ART 1280	Photoshop Software/Des	3	A	
OR				
ART 2412	Illustrator Software	3	F, Sp	

COMPLETE ONE OF THE FOLLOWING GRAPHIC COMMUNICATIONS TECHNOLGOIES ADVANCED COURSES

ART 2120	eDesign & Publishing	3	Sp	ART 1200 and ART 1230
ART 2200	Adv InDesign Software	3	Sp	ART 1200 and ART 1230

COMPLETE 3 CREDITS FROM THE FOLLOWING APPROVED ELECTIVES

ART 1280	Photoshop Software /Design	3	A	
ART 1800	Digital Media Essentials	4	A	
ART 2000	Visual Art CO-OP Education	1-5	A	Sophomore standing, minimum of 2.0 GPA, study-related employment working at least 20 hours per week, and Instructor approval
ART 2010	History of Visual Art & Design	3	F	
ART 2080	VAD Internship	1-3	A	Instructor approval and second year status
ART 2120	eDesign & Publishing	3	Sp	ART 1200, ART 1230
ART 2140	Adv Photoshop Software	2	F, Sp	ART 1280, ART 1810, ART 2340 or Instructor approval
ART 2200	Adv InDesign Software	2	Sp	ART 1200 or Instructor approval
ART 2220	Advanced Design	3	F, Sp	ART 1135 and ART 1230; take ART 2220 AFTER or concurrently w/ART 2230
ART 2230	Advanced Type & Layout	3	F, Sp	ART 1230; take ART 2230 BEFORE or concurrently w/ART 2220
ART 2412	Illustrator Software	3	F, Sp	ART 2412 or Instructor approval
ART 2420	Adv Illustrator Software	3	Sp	
ART 2440	Web Site Design	3	F, Sp	ART 1800

GRAPHIC COMMUNICATIONS TECHNOLOGIES
RECOMMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1120	3	ART 1210	3
ART 1135	3	ART 1240	3
ART 1150	2	ART 1280 or ART 2412	3
ART 1200	3	ART 2120 or ART 2200	2-3
ART 1230	3	ELECTIVE	3
ENGL 1010	3	COMM 1010	3
Total	**17**	**Total**	**17**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the suggested program schedule.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

MOBILE PUBLISHING – CERTIFICATE OF COMPLETION[CTE] 32 credits minimum

Visual Art & Design Division
South City Campus
General Information, (801) 957-4073
Program Information, (801) 957-3361
www.slcc.edu/visualart
Academic Advisor, Cindy Clark, SCC, 1.061ME (801) 957-3361
Academic Advisor, Gordon Storrs, SCC, 1.061ME (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – Associate Professor, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor*, BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: Students with an interest in developing web and publishing skills specifically related new trends in mobile publishing through creative and visual methods should consider this specialized Certificate of Completion through the Visual Art & Design Department.

Students who elect to pursue this certificate will learn a variety of cutting edge technologies specifically related to electronic and mobile publishing, social media, and new trends as they are developed. Students will stay up-to-date on current trends in industry leading software as well as popular technologies associated with social media, mobile apps, and mobile devices through the required courses outlined below.

Career Opportunities: Upon completion of this certificate, students may find entry level positions in the Graphic Arts Industry including but not limited to graphic communications and web design related careers.

Transfer/Articulation Information: This certificate is currently not transferable to four year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credits may be granted by receiving institutions on a per case basis.

Program Entry Requirements:
Required: High School Diploma or equivalent.
Recommended: Artistic and technical aptitude, familiarity with computers.

Estimated Time to Completion: If students follow the recommended semester schedule, completion time is two semesters.

NOTE: This program is **not** eligible for financial aid.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Demonstrate knowledge of the principles and elements of design.	1, 2, 4
Demonstrate competency in the creation of electronic documents for mobile publishing and an ability to produce the visual steps necessary to create mobile apps.	1, 2, 3, 4
Illustrate competent mastery of current electronic publishing, web design and mobile publishing related software.	1, 4, 5
Prove proficiency in social media, and mobile web marketplaces utilizing ethical practices.	1, 2, 4, 5

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

OR

Any approved EN course

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1210	Math for Vis Arts	3	A	

OR

Any faculty approved higher level (above ART 1210) QS course

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1010	Elem Effective Comm	3	A	

OR

Any approved CM course

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ART 1150	Foundation Sem	2	F, Sp	Recommended: take first semester

OR

Any approved HR course

MOBILE PUBLISHING CORE REQUIREMENTS: (21 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1120	Design	3	A	
ART 1200	InDesign Software	3	A	
ART 1800	Digital Media Essentials	4	A	
ART 1810	Int Photoshop for Mult	2	A	
ART 2120	E-Design & Publishing	3		
ART 2440	Web Site Design	3	A	ART 1800 or ART 1280
ART 2510	Mobile Publishing Seminar	3	A	ART 1200, ART 2120 (may be taken concurrently) and ART 2440 (may be taken concurrently)

MOBILE PUBLISHING RECOMMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1120	3	ART 2120	3
ART 1150	2	ART 2440	3
ART 1200	3	ART 1810	2
ART 1210	3	ART 2510	3
ART 1800	4	CM	3
ENGL 1010	3	ELEC	2-3
Total	**18**	**Total**	**16**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in two years, students are encouraged to follow the suggested program schedule.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

CREATIVE ARTS ENTREPRENEURSHIP – CERTIFICATE OF PROFICIENCY[CTE] 19 credits minimum

Visual Art & Design Division
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061.ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061.MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – *Associate Professor*, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor,* BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Assistant Professor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: The Creative Arts Entrepreneurship certificate program helps students develop an understanding of business processes, basic business principles, self-promotion, sales techniques, portfolio preparation, financial techniques and legal issues tailored specifically for students planning to work in creative fields such as the fine and applied arts, design, multimedia, film/video, music, and writing.

Career Opportunities: Most creative professionals will spend at least part if not all of their professional careers as independent small business owners (design studios, photo studios, sound production studios etc.), freelancers or contract workers. In each of these cases the basic understanding of targeted business principles is essential for success.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is two semesters.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
1. Students develop a strong understanding of basic business structures and the advantages and disadvantages of each. Students will incorporate the correct governmental forms, get a business license and research the availability of	1, 2, 3, 4, 5

business names.	
2. Students learn and are able to discuss basic financial requirements for freelance work or small studio setup. Students create a project proposal with estimates to present to clients. Students estimate taxes and formulate strategies to protect the creative business.	1, 2, 4
3. Students apply the basic principles of salesmanship and self-promotion including the creation of a complete sales presentation and the design of self-promotional items. Students are able to evaluate promotional options including the use and comparison of traditional, digital and social media.	1, 4, 5
4. Discuss and interpret the basic principles of US copyrights in its many forms. Create and demonstrate a professional plan of action to protect creative output. Categorize and diagram the steps required for effective protection and licensing.	1, 4, 5
5. Students create traditional and digital portfolios and participate in mock interviews	1, 4, 5

REQUIRED COURSES: (13 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1300	Money & Creative Prof	1	TBA	
ART 1400	Copyright for Creat Prof	1	TBA	
ART 1420	Salesmanship Promotion	2	TBA	
ART 1440	Building Creative Bus	1	TBA	
ART 1850	Prof Portfolio Career Prep	2	TBA	
ACCT1110	Financial Accounting I	3	TBA	
MGT 1100	Small Bus Mgmt	3	TBA	

ELECTIVE COURSES: (SELECT 6 CREDITS FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
ART 2440	Web Site Design	3	TBA	ART/COMM/ENGL/FLM 1800, or ART 1280
ART 2450	Web Animation	3	TBA	
BUS 1040	Ethics at Work (ID)	3	TBA	
BUS 1050	Foundation Business	3	TBA	ENGL 1010 or concurrently
BUS 2200	Bus Communication	3	TBA	ENGL 1010 w/grade or better
COMM 1080	Conflict Mgmt	3	TBA	
COMM 2110	Interperson Comm	3	TBA	
COMM 2200	Beg Video Prod	3	TBA	
COMM 2300	Intro Public Reltn	3	TBA	
COMM 2525	Website Promotion	4	TBA	COMM/ART 2440
COMM 2570	Intro Visual Comm	4	TBA	
FASH 2500	Fashion Entreprship	3	TBA	
MGT 2020	Entrepreneurship	3	TBA	BUS 1050, MKTG 1030 and ACCT 2020
MGT 2040	Business Statistics I	4	TBA	BUS 1050, CIS 1020, and MATH 1010 or FIN 1380
MGT 2070	Human Resource Mgmt	3	TBA	BUS 1050
MKTG 1030	Intro Marketing	3	TBA	
MKTG 1070	Promotion	3	TBA	
MKTG 1300	Bus Presentations	2	TBA	
MKTG 1480	Sales	3	TBA	
MKTG 2100	Marketing Info Mgmt	3	TBA	MKTG 1030

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ART 1440	1	ART 1400	1
ART 1420	2	ART 1850	2
ART 1300	1	MGT 1100	3
ELEC	3	ELEC	3
ACCT 1110	3		
Total	**10**	**Total**	**9**

Advising Notes: Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program. The classes designed to assist students in reaching the skill level necessary to enter the certificate and degree programs are computer applications, MATH 0990. Any class in the preparatory skills may be waived for students who can demonstrate equivalent skills. It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before class may be taken.

VISUAL ART & DESIGN: GAME DEVELOPMENT – CERTIFICATE OF PROFICIENCY[CTE] 25-28 credits minimum

Visual Art & Design Division
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061.ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061.MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – *Associate Professor*, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor*, BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J.Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

VISUAL ART & DESIGN DEPARTMENT CONCURRENT ENROLLMENT LIAISON(S)
KOWALLIS, Brandon – *Concurrent Enrollment Liaison, Instructor*, BFA Photography
RICHARDSON, Trudy – *Concurrent Enrollment Liaison, Instructor*, BFA Drawing & Painting

Program Description:
Students who elect to pursue a Certificate of Proficiency Game Development will prepare themselves for entry level work in a related profession. Game Development technical artists find varied careers in the creation of digital 2D and 3D art and animation in the video game, film, broadcast, visual effects, mobile, and internet industries.

Career Opportunities:
Upon completion of program, students may qualify for work as assistants or junior technical artists in various media fields using motion graphics or post production visual effects.

Transfer/Articulation Information:
This certificate is currently not transferable to four year institutions; however, some of the General Education components are transferable. The Visual Art & Design Department is committed to general and pre-professional programs and some credit may be granted by receiving institutions on a per case basis.

Classes in this certificate will create a stackable credential that may be continued as an AS or AAS within the SLCC Visual Art & Design Department.

Program Entry Requirements:
Required: High School Diploma or equivalent
Recommended: Artistic and technical aptitude, familiarity with traditional drawing, Photoshop, Math, and basic programming helpful.

Pre-requisite ART courses must be passed with a grade of "C" or better. Students cannot continue in advanced courses when the prerequisite for that class has not been satisfied with a "C" grade or better.

Grant project participants will be tested by the Department of Workforce Services (DWS) and Salt Lake Community College (SLCC).

Total Program/Course Fees:
Approximately $500 depending on chosen electives.
Fees are used for maintenance and upgrade of:

- Computers, software and supplies
- Servers, hosting, and storage space
- Traditional Animation lab
- Model fees and supplies

Estimated Cost for Students: In addition to tuition and fees, and depending on chosen electives, animation students may expect to pay an estimated $1000 for books and supplies needed for class projects and portfolio development in this program.

Note: This program is **not** eligible for financial aid.

Estimated Time to Completion: The Animation Emphasis is very rigorous and drawing intensive. If students follow Recommended Sequence, completion time is three semesters.

Specialized Accreditation: Successful completion of ART 1690 course should provide the student with the ability to complete the test for Foundation Level Test Certification. (not currently offered at SLCC, in development).

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Demonstrate a competent application of foundation drawing, story, animation, & visual design skills.	1,2,4
Application of conceptual principles, theories, mechanics, interaction & interface design in game play.	1,2,3,4,
Engage in collaborative production development practices and interdisciplinary experiences.	1,2,4,5
Exhibit a working competency of both the arts & technologies involved in at least one specific area of the games production discipline.	1,2,4

COMPLETE THE FOLLOWING CORE COURSES (8 CREDIT HOURS):

COURSE		CR	SEM	PREREQUISITES
ART 1620	Intro to Animation	2	F, Su	
ART 1800	Digital Media Essentials	4	A	
ART 1850	Portfolio/Career Preparation	2	F, Sp	Two 2000 level courses in School of Arts Communications & New Media

COMPLETE THE FOLLOWING MAJOR COURSES (16 CREDIT HOURS):

COURSE		CR	SEM	PREREQUISITES
ART 1680	Game Dev	3	Sp	ART 1800 (may be taken concurrently)
ART 1690	Game Testing	1	F	ART 1680
ART 2630	Intro to 3D Modeling	3	A	Coreq: ART 1800 (for **C**ertificates)
ART 2640	Intro to 3D Animation	3	F, Sp	ART 2630, ART 1620
ART 2680	Game Assets & Prod	3	F	ART 1680, ART 2640, & (CSIS 1350 or 1850)

COMPLETE 1 OF THE FOLLOWING PROGRAMMING COURSES (2-4 CREDIT HOURS):

COURSE		CR	SEM	PREREQUISITES
CSIS 1850	Obj OrientProg/VArts	2	F, Sp	ART 1800
CSIS 1350	Apps and Applets	4	F, Sp	none

COMPLETE 1 OF THE FOLLOWING SPECALIZATION COURSES (2-3 CREDIT HOURS):*

COURSE		CR	SEM	PREREQUISITES
ART 1660	Storyboarding	3	F, Sp	ART 1110, ART 1620
ART 1670	Character Animation	3	F	ART 1620 or ART 2640
ART 2050	Vis Dev & Char Design	2	F	ART 1120, ART 1260
ART 2650	3D Char Design & Rigging	3	Sp	ART 2640
ART 2665	3D Lighting & Rendering	3	F	ART 2630
MUSC 2570	Game Audio	3	F. Sp	MUSC 1515

GAME DEVELOPMENT RECCOMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1620	2	ART 1680	3
ART 1800	4	CSIS Elective	2-4
ART 2630	3	ART 2640	3
		ART ELECTIVE	2-3
Total	**9**	**Total**	**10-13**
3rd SEMESTER – FALL			
ART 1850	2		
ART 2680	3		
ART 1690	1		
Total	**6**		

Advising Notes:

***EACH COURSE MAY ONLY BE USED ONCE TO FULFILL A VISUAL ART ELECTIVE, SPECALIZATION ELECTIVE, ANIMATION ELECTIVE, OR GENERAL EDUCATION DRISTRIBUTION AREA REQUIREMENT, UNLESS THE COURSE IS REPEATED AND IS REPEATABLE FOR CREDIT. Students should work with faculty advisor to choose electives and projects carefully to develop a working competency of both the art and technologies involved in at least one specific area of the discipline. Some courses may require prerequisites not required for completion of the program and not listed in the Recommended Sequence or degree requirements. Students wishing to take those courses should plan on extra time to complete the prerequisites.**

Students who need to take preparatory classes to meet the requirements of first semester courses should plan on extra time to complete the program.

It is the student's responsibility to examine each course description for details of prerequisite classes. Those prerequisites must be satisfied before the designated class may be taken. All prerequisite courses must be completed with a C or better grade in order to continue in the program. A student may be dropped from a class if the prerequisite has not been completed. If progress is not deemed satisfactory, students will be counseled and/or given probationary status.

NOTE: Students or professionals wishing to register for a class in which a prerequisite class is required but has not been taken, should contact the instructor about acquiring possible approval to register for the class.

Students should check the semester class schedule on the Internet at www.slcc.edu for availability and modifications caused by varying enrollment. Required departmental classes are not offered every semester. To graduate in three semesters, students are encouraged to follow the Recommended Sequence.

Not all Visual Art & Design (ART) classes may be audited. This is especially true for any Visual Art & Design class that has a prerequisite (see course catalog for list of prerequisite classes). Auditing a prerequisite course does not guarantee that the student has mastered the required skills needed for the next level class. Some Visual Art & Design classes that have a prerequisite may be audited if the student can demonstrate an appropriate skill level to the instructor before registering for the class. Students wishing to audit any Visual Art & Design (ART) class without officially completing a prerequisite class (with a 'C' grade or better) must obtain signed permission from the instructor or email authorization before registering for the class. Visual

Art & Design (ART) classes that do not have a prerequisite may be audited as per the Auditing Classes guidelines listed in the SLCC catalog.

All students enrolled in the Visual Art & Design program automatically become members of SkillsUSA, sponsor of the Professional Development Program (PDP). This program is designed to promote leadership, communication, problem solving and skills necessary for employment. Students are encouraged to participate in competitions in their area of specialization.

For information on clubs or organizations within the Visual Art & Design Department, contact the advisor or instructors in the individual areas of specialization.

Additional Program Notes: For information about Student Resources such as Academic Links, Learning/Tutoring, Financial Information, General Resources, Services for Students, Student Life, Health & Recreation, Campus Life and other important information (Disclosures, Student Code of Conduct, Policies/Procedures, and Student Records, etc.) visit: www.slcc.edu/students-current/resources

MOTION GRAPHICS AND VISUAL EFFECTS – CERTIFICATE OF PROFICIENCY[CTE] 28 credits minimum

Visual Art & Design Division
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisor: Cindy Clark, SCC, 1.061ME (801) 957-3361
Academic Advisor: Gordon Storrs, SCC, 1.061.MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – Associate Professor, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor*, BS Graphic Design, MS Graphic Communications Technology Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Instructor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: Students who elect to pursue a Certificate of Completion Motion Graphics & Visual Effects will prepare themselves for entry-level work in a related profession. Motion Graphics & Visual Effects technical artists find varied careers in the creation of digital 2D and 3D art and animation in the video game, film, broadcast, visual effects, mobile, and internet industries. Students will work to develop foundation drawing and design skills, apply animation principles in time based visualizations, and illustrate a working knowledge of quality visual storytelling. Students should choose electives and projects carefully to develop a working competency of both the arts and technologies involved in at least one specific area of the discipline. The certificate of completion is very technically rigorous and drawing intensive. It requires careful scheduling of classes to complete the program in the recommended times.

Career Opportunities: Upon completion of program, students may qualify for work as assistants or junior technical artists in various media fields using motion graphics or post production visual effects.

Estimated Cost for Students: In addition to tuition and fees, and depending on chosen electives, animation students may expect to pay an estimated $500 for books and supplies needed for class projects and portfolio development in this program.

NOTE: This Certificate of Proficiency if **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is three semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged

	6 – Develop the knowledge and skills to work with others in a professional and constructive manner 7 – Develop computer and information literacy
Demonstrate a competent application of foundation drawing and design skills.	1,2,4
Demonstrate a competent application of animation principles in a time based visualization.	1,2,3,4,
Illustrate a working knowledge of quality visual storytelling.	1,2,4,5
Engage in collaborative production development practices and interdisciplinary experiences.	1,2,4,5
Exhibit a working competency of both the arts and technologies involved in at least one specific area of the discipline.	1,2,4

REQUIRED COURSES: (20 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1110	Foundation I Drawing	4	F, Sp	
ART 1120	Design	3	A	
ART 1620	Intro to Animation	2	F, Su	
ART 1660	Storyboarding	3	F, Sp	ART 1110, ART 1620
ART 1800	Digital Media Essentials	4	A	
ART 1850	Portfolio/Career Prep	2	F, Sp	Two 2000 level courses in School of Arts Communications & New Media
ART 2470	Digital Video Prod	2	F, Sp	ART 1800

SPECIALIZATION: (COMPLETE 3 COURSES FROM ONE OF THE FOLLOWING TRACKS)

MOTION GRAPHICS

COURSE		CR	SEM	PREREQUISITE
ART 1200	InDesign Software	3	A	
ART 1230	Typography & Layout	3	A	ART 1200 and ART 1120 (either may be taken concurrently)
ART 2620	Motion Graphics	2	F	ART 1620 and ART 1230

VISUAL EFFECTS

COURSE		CR	SEM	PREREQUISITE
ART 2630	Intro to 3D Modeling	3	A	ART 1800 or Instructor approval
ART 2640	Intro to 3D Animation	3	F, Sp	ART 2630 and ART 1620, or Instructor approval
ART 2660	Visual Effects & Comp	3	F	ART 2640

MOTION GRAPHICS & VISUAL EFFECTS RECOMMENDED SEQUENCE

SAMPLE SCHEDULE			
1st SEMESTER – FALL		**2nd SEMESTER – SPRING**	
ART 1110	4	ART 2470	2
ART 1620	2	ART 1120	3
ART 1800	4	ART 1660	3
ART 2630/1200	3	ART 2640/1230	3
Total	**13**	**Total**	**11**
3rd SEMESTER – FALL			
ART 1850	2		
ART 2660/2620	3/2		
Total	**4-5**		

WEB GRAPHIC DESIGN – CERTIFICATE OF PROFICIENCY[CTE] 27 credits minimum

Visual Art & Design Division
South City Campus
General Information: (801) 957-4073
Program Information: (801) 957-3361
www.slcc.edu/visualart
Academic Advisors: Cindy Clark, SCC, 1.061ME (801) 957-3361
Academic Advisors: Gordon Storrs, SCC, 1.061MD (801) 957-3361

Program Faculty:
ADAMSON, Rob – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
BUDD, Brent – *Associate Professor*, BFA University of Utah
CHAMBERS, Sheila – *Professor,* BA Communications, MFA Illustration
CURRAN, Jessica –*Assistant Professor,* BFA Graphic Design, MFA Graphic Communications Management, MFA Media Design
EREKSON, J. Chad – *Assistant Professor,* BFA Animation
GRAHAM, Rick – *Professor,* BFA Drawing & Painting, MFA Drawing & Painting
GRUENDELL, Lana – *Professor,* AAS Graphic Design, BFA Drawing & Painting, MEd Educational Technology
GONZALES, Kerry – *Associate Professor,* BFA Graphic Design
HYANS, Whitney King – *Associate Professor,* BS Photography, BFA Photography, MFA Photography
MARTIN, Terry – *Assistant Professor,* CERT Photography, AAS / AA General & Photography, BFA Equivalent Photography
REILAND, Neal – *Associate Professor,* BA Business Administration Marketing / Advertising
ROSENBERGER, Ed – *Assistant Professor,* AS General, BFA Photography
WILSON, Andrew – *Assistant Professor,* BA Business Administration Visual Technology / Internet Emphasis, MBA Business Administration

Visual Art & Design Department Concurrent Enrollment Liaison(s):
KOWALLIS, Brandon – Concurrent Enrollment Liaison, Instructor, BFA Photography
RICHARDSON, Trudy – Concurrent Enrollment Liaison, Instructor, BFA Drawing & Painting

Program Description: The Web Graphic Design Certificate of Proficiency is a 28-credit program designed to prepare students to design websites from concept to completion and includes coursework in basic design principles, website architecture, graphic design, web animation, audio and video production, and website promotion. Students will prepare a portfolio of websites they can use to demonstrate their skills to potential employers. This program was created as part of SLCC's $2.7 million Community-Based Job Training (CBJT) grant from the Department of Labor.

Career Opportunities: Upon completion of program, students will qualify for work as assistants or junior web designers.

Program Entry Requirements: Grant project participants will be tested by the Department of Workforce Services (DWS) and Salt Lake Community College (SLCC).

Estimated Cost for Students: Approximately $2932 in tuition, plus student fees and approximately $500 in books, storage devices and supplies. Students will need access to computer systems.

NOTE: This Certificate of Proficiency is **not** eligible for financial aid. However, courses within the certificate may be eligible if taken as part of a financial aid eligible program. Please check with the Financial Aid Office to determine if your classes are eligible.

Estimated Time to Completion: If students follow the suggested semester schedule, time to completion is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire substantive knowledge 2 – Communicate effectively 3 – Develop quantitative literacies 4 – Think critically and creatively 5 – Develop knowledge and skills to be civically engaged 6 – Develop the knowledge and skills to work with others in a professional and constructive manner

	7 – Develop computer and information literacy
Students will be able to design and create complete information architecture of a website to industry standards while demonstrating substantive field knowledge, critical thinking and effective communication.	1, 4, 5
Students will demonstrate competencies to design and create web site assets, such as buttons, illustrations, images, video, and sound, and so on in appropriate formats using industry standard coding and appropriate software.	1, 4
Students will be able to incorporate visual communication design principles including color theory, typography, and layout into websites.	1, 4, 5
Students will be able to create a complete website with a minimum of 25 web pages. The site will have a consistent, appropriate image with all assets compressed appropriately and functional. The site effectiveness will be evaluated by both peer teams and the instructor.	1, 4, 5

REQUIRED COURSES: (26 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ART 1120	Basic Design	3	A	
ART 1200	InDesign Software	3	A	
ART 1230	Typography and Layout	3	A	ART 1200 and ART 1120 (either may be taken concurrently)
ART 1810	Interm Photo/Multi	2	A	
ART 1800	Digital Media Essentials	4	A	
ART 2440	Web Site Design	3	A	ART 1280 or ART 1800 (may be taken with ART 2440)
ART 2580	Web Animation	3	F, Sp	ART/COMM 2440
ART 2550	Website Design II	3	F, Sp	ART 2440
ART 1850	Portfolio/Career Prep	2	F, Sp	Satisfactory completion of a minimum of two 2000 level courses in Visual Art and Design, Communication, and/or Fine Arts departments

ELECTIVE COURSES: (SELECT 1 COURSE FROM THE FOLLOWING)

COURSE		CR	SEM	PREREQUISITE
COMM 1515	Basic Audio Production	3	F, Sp	
COMM 1820	Media Content Mgmt	3	F, Sp	ART 1800 or with ART 1800
COMM 2200	Beg Video Production	4	F, Sp	ART 1800
COMM 2525	Website Promotion	4	F, Sp	
COMM 2570	Intro. Visual Comm	4	F, Sp	
ART 1620	Intro Animation	2	Sp	ART 1620 or Instructor approval
ART 1310	Photography I	4	A	
ART 2000	CO-OP Education	1-5	A	Instructor approval
ART 2470	Desktop Video Production	2	F	ART 1280 or ART 1810

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ART 1120	3	ART 1230	3
ART 1200	3	ART 1810	2
ART 2440	3	ART 2580	3
ART 1800	4	ART 2550	3
ELECTIVE	2-3	ART 1850	2
Total	**15**	**Total**	**13**

WELDING FABRICATION & INSPECTION – ASSOCIATE OF APPLIED SCIENCE[CTE] (AAS) — 66 credits minimum

Technical Specialties Division
Taylorsville Redwood Campus
General Information, (801) 957-4073
Program Information, (801) 957-4096
www.slcc.edu/welding
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Assistant Professors – Steve Ford

Program Description: Degree seeking students will receive a foundation of industry practices, welding theory, and knowledge of metal alloys and metallurgy processes. Graduates from the program will be competent in layout, fabrication, inspection, fitting, cutting and forming metals, and determining electrodes/wire and filler metals required by industry. Students will have the opportunity to learn techniques for certification testing, competent blueprint interpretation, and written procedures required by industry. Welders desiring to improve their position by upgrading their skills in specific welding processes or applications; or welders desiring instruction certification, fabrication, or inspection are encouraged to enroll in the program.

The welding program at SLCC also provides training in a variety of welding processes and joint designs. This includes:
OAW – all position oxyacetylene welding, cutting
PAC – Plasma Arc Cutting
SMAW – stick welding, all positions, plate and pipe
CAC – Carbon Arc Cutting
GMAW – all position short circuiting transfer and spray transfer techniques
GTAW – all position welding ferrous and non-ferrous metals
FCAW – flux cored arc welding
SAW – submerged arc welding
Blueprint reading, fabrication and layout
Operation of shears, rolls, drills and brakes

Career Opportunities: Right now, there is a need for 2,200 welders in Utah, and a need for 200,000 across the nation. There are 5 open jobs to every candidate in welding. SLCC's welding students are many times offered a welding position before they finish the program.

SLCC welding graduates will be prepared to find careers such as:
- Fabricator/Welder: $16.00 - $24.00/hr
- Pipe Welders: $20.00-$30.00/hr

Employers will test graduates' skills to determine their employability skills. Due to the shortage of skilled welders, opportunities for overtime are common.

Transfer/Articulation Information: Students who earn an AAS degree in Welding have the option to transfer into the Technology Management Bachelor Degree at Utah Valley University. UVU will accept up to 45 technical credits towards this degree.

Program Entry Requirements: Good eyesight, good eye-hand coordination, physical condition and basic reading and math skills are required for success in this program. Students may start this program during the Fall or Spring semester. For information on getting started, please visit www.slcc.edu/students-future/admissions

Total Program/Course Fees: In addition to tuition and fees, students will pay a lab fee for welding labs. This fee is based on materials, consumables, and supplies required for the particular lab.

Estimated Cost for Students:
Tuition per semester: www.slcc.edu/students-future/tuition-fees/
Supplies & personal protective equipment: Ranges from $500 to $800

Estimated Time to Completion: If students follow suggested sample schedule, completion time is four semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
1. Students will demonstrate knowledge to pass a practical examination such as AWS code book, AWS publications, API code, ASME code.	1, 2, 3, 4, 6
2. Students will demonstrate the ability to comprehend basic welding techniques, fabrication through interpretation of blue prints, spec. orders, material orders, best practices related to principals, policies and procedures in the welding industry.	1, 2, 3, 4, 6
3. Students will demonstrate effective oral communication skills in a presentation in the theory welding area.	1, 2, 3, 4, 6
4. Students will demonstrate effective oral communication with proper welding terminology, acronyms, and personal communications.	1, 2, 3, 4, 6
5. Students will be able to apply reasoning and interpret information represented on data, graphs, and/or tables.	1, 2, 3, 4, 6
6. Students will be able to apply welding knowledge to effectively utilize problem solving skills as it relates to the operation of equipment in the industry	1, 2, 3, 4, 6
7. Student will demonstrate the ability to identify, analyze, and synthesize relevant data from multiple information sources in order to develop acceptable conclusions.	1, 2, 3, 4, 6
8. Students will be able to engage and interact as a team in a learning environment to develop skills which relate welding industry standards.	1, 2, 3, 4, 5, 6

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:

COMPOSITION (EN) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing (EN)	3	A	WRTG 0990 w/C grade or better or appropriate Accuplacer score

QUANTITATIVE STUDIES (QS) CHOOSE ONE COURSE (3-4 CREDITS) FROM THE FOLLOWING

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry (QS)	3	F, Sp	MATH 0900
OR				
MATH 1010	Intermed Algebra (QS)	4	A	RDG 0900; and within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score

OR

Any MATH course numbered higher than MATH 1010

COMMUNICATION (CM) 3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved CM course			

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE	CR	SEM	PREREQUISITE
Any approved HR course			

DISTRIBUTION AREAS: (3 CREDITS)

Choose an additional three credits from one of the following distribution areas.

COURSE	CR
Biological Science (BS)	3-4
Fine Arts (FA)	3-4
Humanities (HU)	3
Interdisciplinary (ID)	3
Physical Science (PS)	3
Social Science (SS)	3

REQUIRED COURSES: (55 CREDITS)

COURSE		CR	SEM	PREREQUISITE
IND 1130	Math for Welders	3	F, Sp	IND 1120
PHYS 1010	Elementary Physics	3	F, Sp	
NDT 1110	Intro to NDT	3	F, Sp	
MCCT 1500	Manual Machining	2	F, Sp	Coreq: MCCT 1510
MCCT 1510	Manual Mach Lab.	1	F, Sp	Coreq: MCCT 1500
WLD 1110	Fund of Welding	3	F, Sp	Coreq: WLD 1111
WLD 1111	Fund of Weld Lab	7	F, Sp	Coreq: WLD 1110
WLD 1120	Weld Process/Quality	3	F, Sp	WLD 1110, WLD 1111 Coreq: WLD 1121
WLD 1121	Weld Proc/Qual Lab	7	F, Sp	WLD 1110, WLD 1111 Coreq: WLD 1120
WLD 1230	Gas Shield Weld Insp	3	F, Sp	WLD 1120, WLD 1121 Coreq: WLD 1231
WLD 1231	Gas Shield Weld In Lab	7	F, Sp	WLD 1120, WLD 1121 Coreq: WLD 1230
WLD 1240	Flux Core/Pipe Fab	3	F, Sp	WLD 1230, WLD 1231 Coreq: WLD 1241
WLD 1241	Flux Core/Pipe Fab Lab	7	F, Sp	WLD 1230, WLD 1231 Coreq: WLD 1240
WLD 1260	Blueprint for Welding	3	F, Sp	

NOTE: PHYS 1010 Elementary Physics (PS) fulfills both General Education Distribution and Major Course Requirements.
FA 1080 Basic Metal Sculpting (FA) fulfills General Education Distribution Area Requirement.

SAMPLE SCHEDULE

FALL SEMESTER		SPRING SEMESTER	
ENGL 1010	3	CM	3
IND 1120	3	HR	2-3
WLD 1110	3	WLD 1120	3
WLD 1111	7	WLD 1121	7
		NDT 1110	3
Total	**16**	**Total**	**18-19**

FALL SEMESTER		SPRING SEMESTER	
IND 1130	3	WLD 1240	3
WLD 1230	3	WLD 1241	7
WLD 1231	7	WLD 1260	3
PHYS 1010	3	MCCT 1500	2
		MCCT 1510	1
Total	**16**	**Total**	**16**

Advising Notes:
Students will need basic reading and math skills. Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes. It is highly recommended that each student meet with the program advisor prior to starting this program. The program advisor may be reached at (801) 957-4550.

SkillsUSA
All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employability skills. For more information see: www.slcc.edu/cte/skills-usa-winner-2012 or www.skillsusa-utah.org

COOPERATIVE EDUCATION
It is possible to earn some laboratory credit through cooperative education. With prior approval of a faculty member and/or CO-OP coordinator, students may register for the CO-OP course.

WELDING TECHNOLOGY – CERTIFICATE OF COMPLETION[CTE] 35 credits minimum

Technical Specialties Division
Taylorsville Redwood Campus
General Information, (801) 957-4073
Program Information, (801) 957-4096
www.slcc.edu/welding
Academic Advisor, Redwood Campus CT 249, (801) 957-4550

Program Faculty:
Assistant Professors – Steve Ford

Program Description: The one year certificate of Completion Degree is designed to provide students a foundation in industry practices, welding theory, and an introduction to metal alloys and welding metallurgy. Graduates from the program will have entry level skills for cutting and welding metals required by industry. Students will have the opportunity to learn techniques for certification testing, blueprint interpretation, and written procedures required by industry.

The welding program at SLCC also provides training in a variety of welding processes and joint designs. This includes:
OAW – all position oxyacetylene welding, cutting
SMAW – stick welding, all positions, plate and pipe
CAC – Carbon Arc Cutting
Blueprint reading, fabrication and layout
PAC – Plasma Arc Cutting

Career Opportunities: Right now, there is a need for 2,200 welders in Utah, and a need for 200,000 across the nation. There are 5 open jobs to every candidate in welding. SLCC's welding students are many times offered a welding position before they finish the program.
SLCC welding graduates will be prepared to find careers such as:

- Fabricator/Welder: $16.00 - $24.00/hr.

Businesses will test graduates' skills to determine what their pay should be. Because of the shortage of welders, opportunities for overtime are common, which means you can earn even more pay! Wages will vary from industry to industry.

Transfer/Articulation Information: Students who complete the Welding Technology Certificate of Completion may continue on to earn the Associate of Applied Science Degree in Welding Fabrication & Inspection, or an Entrepreneurship Emphasis or Associate of Science Transfer Emphasis. Upon completion of the AAS or AS options students may transfer to UVU to complete their BS in Technology Management or the Integrated Studies programs. Contact the University Center for current information. http://www.slcc.edu/universitycenter/programs or call 801-957-4824

Program Entry Requirements: Good eyesight, good eye-hand coordination, physical condition and basic reading and math skills are required for success in this program. Students may start this program during the Fall or Spring semester. For information on getting started, please visit http://www.slcc.edu/gettingstarted/index.asp

Estimated Cost for Students:
Tuition per semester: http://www.slcc.edu/cashiering/tuitionfees.asp
Supplies & personal protective equipment: Ranges from $500 to $800

In addition to tuition and fees, students will pay a lab fee for welding labs. This fee is based on materials, consumables, and supplies required for the particular lab. Lab fees may vary due to individual abilities and material required by individual labs. Contact program faculty for more information on lab fees.

Estimated Time to Completion: If students follow suggested sample schedule, completion time is two semesters.

Program Student Learning Outcomes	Related College-Wide Student Learning Outcomes
	1 – Acquire Substantive Knowledge 2 – Communicate Effectively 3 – Develop Quantitative Literacy 4 – Think Critically and Creatively 5 – Civic Engagement 6 – Work Professionally and Constructively 7 – Develop Computer and Information Literacy
1. Students will demonstrate knowledge to pass a practical examination such as AWS code book, AWS publications, API code, ASME code.	1, 2 4, 6
2. Students will demonstrate the ability to comprehend basic welding techniques for a variety of welding positions and various joint designs related to principals, policies and procedures in the welding industry.	1, 2 4, 6
3. Students will demonstrate effective oral communication skills in a presentation in the theory welding area.	1, 2 4, 6
4. Students will demonstrate effective oral communication with proper welding terminology, acronyms, and personal communications.	1, 2 4, 6
5. Students will be able to apply reasoning and interpret information represented on data, graphs, and/or tables.	1, 2 4, 6
6. Students will be able to apply welding knowledge to effectively utilize problem solving skills as it relates to the operation of equipment in the industry.	1, 2 4, 6
7. Student will demonstrate the ability to identify, analyze, and synthesize relevant data from multiple information sources in order to develop acceptable conclusions.	1, 2 4, 6
8. Students will be able to engage and interact as a team in a learning environment to develop skills which relate welding industry standards.	1, 2 4, 5, 6

GENERAL EDUCATION REQUIREMENTS

CORE SKILLS:*

QUANTITATIVE STUDIES (QS) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
IND 1120	Math for Industry (QS)	3	F	Prereq: MATH 0900 w/C grade or better.
Or				
MATH 1010	Intermediate Algebra (QS)	4	A	Prereq: RDG 0900; and within the last year, MATH 0990 w/C grade or better, or appropriate Accuplacer score.
Or				
Any MATH course numbered higher than MATH 1010				

COMMUNICATION (CM) 3 CREDITS

COURSE		CR	SEM	PREREQUISITE
COMM 1020	Public Speaking	3	A	
Or				
Any Approved CM Class				

HUMAN RELATIONS (HR) 2-3 CREDITS

COURSE		CR	SEM	PREREQUISITE
LE 1220	Human Relations	3	A	
Or				
Any Approved HR Class				

NOTE: Additional General Education courses are required for students who choose to continue on to the AAS or AS degrees. Additional requirements include English Composition and courses in the Gen Ed Distribution Areas. For course selection, see the School of Technical Specialties Academic Advisor.

REQUIRED COURSES: (26 CREDITS)

COURSE		CR	SEM	PREREQUISITE
ENGL 1010	Intro to Writing	3	A	WRTG 0990 W/C grade or better or appropriate Accuplacer score
NDT 1110	Intro to NDT	3	F, Sp	
WLD 1110	Fund of Welding	3	F, Sp	Coreq: WLD 1111
WLD 1111	Fund of Weld Lab	7	F, Sp	Coreq: WLD 1110
WLD 1120	Weld Process/Quality	3	F, Sp	WLD 1110, WLD 1111 Coreq: WLD 1121
WLD 1121	Weld Proc/Qual Lab	7	F, Sp	WLD 1110, WLD 1111 Coreq: WLD 1120

SAMPLE SCHEDULE			
FALL SEMESTER		**SPRING SEMESTER**	
ENGL 1010	3	CM	3
MATH 1010	4	HR	2-3
WLD 1110	3	WLD 1120	3
WLD 1111	7	WLD 1121	7
		NDT 1110	3
Total	**17**	**Total**	**18-19**

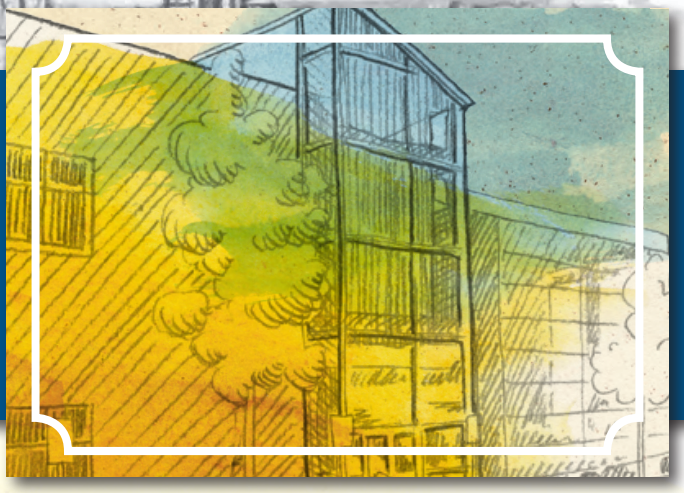
Advising Notes:
Students will need basic reading and math skills. Students who need to take preparatory classes to meet the requirements of the first semester courses should plan on extra time to complete the program.

It is highly recommended that each student meet with the program advisor prior to starting this program. It is the students' responsibility to understand the requirements for their chosen program of study and to examine each course description for details about the prerequisite classes.The program advisor may be reached at (801) 957-4550.

SkillsUSA:
All students enrolled in the program are encouraged to participate in SkillsUSA. This program is designed to promote leadership, communication, social, and employability skills. For more information see:
www.skillsusa-utah.org

Continuing Education

Spring 2014 Catalog



Skills training for any economy...

Salt Lake Community College



Greetings,

We are excited to share our 2013 edition of Salt Lake Community College's Division of Continuing Education catalog, which is also available on our website along with course and program specific information at **www.slcccontinuinged.com**. Classes and programs through the Division of Continuing Education at the College offer flexible schedules, including evenings and accelerated blocks, traditional day and afternoon sessions, as well as online courses and downloadable applications. Meeting student and community educational needs is our greatest priority. Instructors are practitioners of the subjects in which they teach.

Division highlights include:

Green Academy — Course offerings in energy efficiency, green design and construction, electric sector and renewable energy technology are growing. With the recent completion of the Solar Training Lab, the photovoltaic training has expanded.

Industry workforce education certificates are available in the energy sector including an AAS degree and technical training in Energy Management/Energy Efficiency. A certificate in Electric Power Technology provides an educational background to compete for a wide-range of jobs in Utah's growing industry.

Continuing Education Units (CEUs) — Continuing professional development courses approved by the Utah Division of Occupational & Professional Licensing (DOPL) for professional licensing renewal is now more convenient than ever. Meet your professional development requirements with our audio lectures. Listen to your course while you commute to work or load it onto your MP3 player, phone or iPod® for absolute convenience. Each course is available in a self-paced format that can be registered for and taken at any time.

CEUs for license renewal are available for architects, attorneys, contractors, electricians, engineers, and funeral directors with offerings being added regularly.

The College also offers many comprehensive 6-week online courses through our training partner, Education to Go. These courses can be completed anytime, day or night from the convenience of your home or office.

Workforce Education Training and Certificates – Continuing Education offers an array of options in high-growth industry sector careers including: pharmacy technicians, genealogists, group fitness instructors, information studies, event and travel planners, and therapeutic recreational technicians, and more. Please visit our website for details.

Computer Workshops – Continuing Education workshops offer high-quality, short-term and practical training for professional and personal applications including Web development, graphic design, database design, accounting software, data analysis, and project management.

Encore Institute – Salt Lake Community College is responding to the needs of a unique population by offering classes through its Encore Institute. This program is designed to support mature adults (50+) who want to explore a new career, start businesses, enrich their lives, and give back to the community in meaningful ways.

Online Workforce & Personal Interest Training in partnership with Education to Go (ed2go) – These online courses include high-quality, instructor-led, short-term workforce skills training and the College also offers online longer-term certificate programs. You'll find over 300 short-term and 40+ certificate programs in the Continuing Education catalog and on our website.

Career Exploration Courses – Explore your opportunities and learn more about various careers, professions and industries before enrolling in a comprehensive program.

Transition to Teaching – These courses assist professionals in obtaining a state teaching certificate for public schools.

As part of a comprehensive community college seeking to respond to community and industry needs, new initiatives are always being developed – so check in frequently. If you can't locate an interest or have additional questions, please be sure to contact us or visit www.slcccontinuinged.com.

Sincerely,

Jennifer Saunders

Jennifer Saunders, M.Ed.
Associate Dean, Continuing Education
School of Applied Technologies & Professional Development

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Accelerated Business Degree (A.S.)

Contact:
Elisha Suazo
(801) 957-5422
elisha.suazo@slcc.edu
www.slcccontinuinged.com/abd

Salt Lake Community College is the place to start or advance a business career. The College offers a fast track Associate of Science degree in Business. This program is geared toward working professionals who want to upgrade their skills, progress in their careers or transfer to a 4-year business program. Complete a degree in as few as 14 months.

QUALITY INSTRUCTION
At the College, students have access to full-time highly qualified instructors and advisors who work as a team to integrate courses and meet high academic standards.

DESIGNED FOR WORKING PROFESSIONALS
Students move through the program as a group and generally take three classes each block. The courses utilize a blend of classroom and online instruction.

PREDICTABLE SCHEDULE
Classes meet every Tuesday and Thursday evening.

CONVENIENT LOCATION
The Larry H. Miller Campus, 9750 South 300 West in Sandy, is one of Utah's premiere business facilities.

FAST TRACK
Complete a degree in as few as 14 months. The accelerated degree encompasses the core courses in business needed to complete the Associate of Science in Business degree. For individuals who need General Education (GE) classes, there are opportunities to take the GE classes concurrently with the program.

ACCREDITATION
The Associate of Science in Business degree is accredited by the Association of Collegiate Business Schools and Programs (ACBSP) and courses are transferable to most 4-year institutions of higher education in Utah.

PROGRAM PREREQUISITES

Prospective students must:

- Complete an application.
- Complete ENGL 1010 within the last 12 months with a recommended letter grade of C or better, or qualifying placement score.
- Complete MATH 1010 within the last 12 months with a recommended letter grade of C or better, or qualifying placement score.
- Complete CIS 1020 with a recommended letter grade of B or better, or qualifying placement score.

Location: Miller Campus
Cohort Begins: Spring (Tuesday & Thursday evenings)
Credit/Non-Credit: Credit (Credit programs require application to the College)

Program Courses:

CEAB 0001 Program Introductory Workshop (Non-Credit)

An introductory workshop to provide incoming students a brief overview of the Accelerated Business Degree program.

COMM 1020 Principles of Public Speaking (3 Cr)

Learn how to prepare and deliver speeches for civic and professional occasions. Covers basic theory and skills practice, including audience analysis, anxiety management, critical listening, supporting claims with evidence, persuasion, motivation and delivery.

BUS 1050 Foundations of Business (3 Cr)

Provides a historical, sociological and philosophical overview of the fundamental aspects of business. Covers business practices influenced by socioeconomics, the human element, ethics in the workplace and social responsibility in a global market.

ANTH 2011 People & Cultures of SW (3 Cr)

An introduction to the diverse peoples of the American Southwest. Examines cultures of the Hopi, Navajo and Ute people.

MATH 1090 College Algebra - Business (3 Cr)

Examines graphs, linear, quadratic, logarithmic and exponential functions, matrices, systems of equations and inequalities, Leontief models, compound interest, geometric and arithmetic series, and loans and annuities.

SOC 1010 Introduction to Sociology (3 Cr)

Provides an introduction to the nature and scope of sociology, including systematic treatment of group life, social institutions, social problems, social change and social control.

BUS 1100 Applied Business Calculus (3 Cr)

Examines the mathematics of calculus in relation to business applications. Reviews polynomial and exponential functions, mini-maxi theory, limits, derivatives and integration.

COMM 2150 Intercultural Communication (3 Cr)

Examines how cultural similarities and differences impede or enhance communication across cultures. Issues of diversity, values, norms among different cultures are explored.

CSIS 2010 Bus. Computer Profic. - Database (3 Cr)

Introduces to the use of microcomputer-based

database management software as a business solution tool. Examines essential concepts and syntax of database and problem solving through software tutorials and assignments.

MGT 2040 Business Statistics I (4 Cr)

Covers collection, analysis and interpretation of business and economic data. Includes measures of location and dispersion, estimation and hypothesis testing, ANOVA, contingency tables, correlation and regression. Computer access is required.

ENGL 2010 Intermediate Writing (3 Cr)

Extends principles of rhetorical awareness and knowledge-making introduced in English 1010 and increases ideological engagement within the classroom, and questions socioeconomic and political issues. Certain sections are taught using service-learning.

ACCT 2010 Survey of Financial Accounting (3 Cr)

Examines a broad view of accounting's role in providing information to external users of financial information. The primary focus is on the use of financial statements by investors, creditors and other entities outside of the organization.

ECON 2010 Principles of Microeconomics (3 Cr)

Studies consumer and producer behavior, and the role specific economic units play in market development. Elasticity, consumer choice, production costs and profits are also examined relative to different levels of competition.

ECON 1740 Economic History of U.S. (3 Cr)

Studies the historical foundation of American economic growth and development from the colonial period to the present. Institutional and structural changes and processes of growth in the American economy are also explored.

ACCT 2020 Managerial Accounting (3 Cr)

Examines a broad view of accounting's role in providing information to support the internal decision-making organization. Primary focus is on management's use of accounting information.

ECON 2020 Principles of Macroeconomics (3 Cr)

Studies the economy as a whole, using examples from current events. Examines concepts of scarcity, demand and supply, output and income, growth, inflation, unemployment, interest rates, money and banking.

MGT 2050 Legal Environment of Business (3 Cr)

Discusses principles of business law, including torts, contracts, agency and commercial law. Reviews business forms, including sole proprietorship, partner-ships and corporations, and explores common legal problems in business.

Certified Pool Operator

Contact:
Mykel Severson
(801) 957-5407
mykel.severson@slcc.edu
www.slcccontinuinged.com/pool

This program provides training required under the Utah Department of Health statute R392-302.1.

New or expired technicians attend a two day (16 hour) course that covers pool and spa chemistry, testing, treatment, filtration, maintenance and automatic feeding equipment. It also addresses local and state codes as well as other government requirements.

Previously certified technicians whose certification HAS NOT expired attend a one-day refresher course All participants must pass an examination to be certified. The certification is valid for five years. The course fee includes the Pool/Spa Operators Handbook, produced and published by the National Swimming Pool Foundation.

Location: Miller Campus
Semesters Offered: Monthly
Credit/Non-Credit: Non-Credit

Program Courses:

CEHZ 0516 Certified Pool Operator

This course is an intensive two-day program that covers pool and spa chemistry, testing, treatment, filtration, maintenance and automatic feeding equipment. It also addresses local and state codes as well as other government requirements and is required for all uncertified technicians.

Cost: $209

January 22-23	9:00 AM - 4:00 PM
February 19-20	9:00 AM - 4:00 PM
March 19-20	9:00 AM - 4:00 PM
April 23-24	9:00 AM - 4:00 PM
May 21-22	9:00 AM - 4:00 PM
June 18-19	9:00 AM - 4:00 PM

CEHZ 0517 Certified Pool Operator - Recertification

Day two of the Certified Pool Operator course is designed for Certified Pool Operators previously certified from the College or other institution whose certification HAS NOT yet expired:

Cost: $55

January 23	9:00 AM - 4:00 PM
February 20	9:00 AM - 4:00 PM
March 20	9:00 AM - 4:00 PM
April 24	9:00 AM - 4:00 PM
May 22	9:00 AM - 4:00 PM
June 19	9:00 AM – 4:00 PM
August 29	9:00 AM - 4:00 PM
September 26	9:00 AM - 4:00 PM
October 24	9:00 AM - 4:00 PM

Computer Workshops

Contact:
Dan Trujillo, MBA
(801) 957-4845
dan.trujillo@slcc.edu
www.slcc.edu/workshops

Quality, short-term computer training courses are offered to both individuals and businesses at any skill level and are taught in person at several campus locations.

The College can also schedule custom training at a business or at a convenient campus location. Workshops are offered monthly and do not require College enrollment.

Location: Taylorsville Redwood Campus, Miller Campus and Library Square Center
Semesters Offered: All
Credit/Non-Credit: Non-Credit

Program Courses:

MICROSOFT ACCESS

CECW 0405 Access Level I (7 Hr)

Recommended: Basic knowledge of Excel

This hands-on workshop guides students through database design theory and the steps needed to create a database. Time is reserved to assist students with specific needs and projects.

CECW 0406 Access Level II (7 Hr)

Recommended: Access Level I

This workshop focuses on designing Queries, Forms and Reports. Query tasks include using And/Or, comparison operators, calculated fields, multiple tables in a query, creating action queries and advanced query wizards. Time is reserved to assist students with specific needs and projects.

CECW 0407 Access Level III (7 Hr)

Recommended: Access Level II

Take database skills to the next level. Learn sub forms, form letters, integrating MS-Access with Excel, Word and other databases to give other users access to a professional system without knowledge of MS-Access. Time is reserved to assist students with specific needs and projects.

CECW 0408 Access Advanced Topics - Query Techniques (7 Hr)

Recommended: Access Level II

This workshop is for the advanced Access user. Learn how to base one query upon another, Joins, Crosstab Queries, and queries for Combo Boxes. Time is reserved for assistance on specific Queries.

CECW 0409 Access Advanced Topics - Reporting Techniques (7 Hr)

Recommended: Access Level II

This workshop is for the advanced Access user. Create forms to enter criteria for reports, print criteria on reports, sub-reports, grouping and sorts. Time is reserved for assistance on specific Reports.

CECW 0410 Access Advanced Topics - Macro Techniques (7 Hr)

Recommended: Access Level III

This workshop is for the advanced Access user. Common and advanced macros are discussed, action queries and converting macros into visual basic code. Time is reserved for assistance on specific Macros.

ADOBE ACROBAT PROFESSIONAL

CECW 0803 Adobe Acrobat Pro (3 Hr)

Recommended: Familiar with basic computer skills

Learn the skills needed to create PDF (Portable Document Format) documents. Tasks include how to create interactive forms with Text fields, Checkboxes, Radio Buttons, List Boxes, Drop-down List, Combo Boxes, buttons and images.

ADOBE ILLUSTRATOR

CECW 0804 Adobe Illustrator Level I (6 Hr)

Recommended: Familiar with basic computer skills and experience working with images

Introduces students to Adobe Illustrator; how to identify interface components; navigate in the artwork window; create shapes and text, Paintbrush tools, symbols, Pencil and Pen tools.

CECW 0805 Adobe Illustrator Level II (6 Hr)

Recommended: Illustrator Level I

This workshop builds on the skills learned in Level I to create artwork for both print and Web. Learn how to Transform objects, apply Filters and Effects, automate tasks, 3D effects, and Liquify.

ADOBE INDESIGN

CECW 0806 Adobe InDesign Level I (6 Hr)

Recommended: Familiar with basic computer skills and experience working with images

This workshop helps students design and produce professional print documents and layouts. Students will learn how to manipulate text, shapes, colors, frames, auto page numbers; import text, thread, and unthread text frames.

CECW 0807 Adobe InDesign Level II (6 Hr)

Recommended: InDesign Level I

This workshop builds on the skills learned in Level I

to create books, page layout, tables of content, and indices; convert documents to PDF, HTML, and XML formats.

ADOBE PHOTOSHOP

CECW 0800 Photoshop Level I (6 Hr)

Recommended: Familiar with basic computer skills and experience working with images

This workshop helps students create images for both print and the Web. Students will use Photoshop's basic tools, palettes, and layers to create images, retouch photographs, and save files using multiple file formats.

CECW 0801 Photoshop Level II (6 Hr)

Recommended: Photoshop Level I

This course builds on the skills learned in Level I to Crop/ Straighten Photos, using Shape Tools, Histogram Palette, Layer opacity, Palettes, Background Eraser Tool, Noise and Rendering Filters and Brush Strokes Filters.

ADOBE PREMIER

CECW 0820 Premier Pro Introduction (9 Hr)

Recommended: Familiar with basic computer skills

Students will learn how to create a movie using Adobe Premiere software. This hands-on course guides students through the process of creating a movie from start to finish. Time is reserved to assist students with specific needs and projects.

MICROSOFT EXCEL

CECW 0210 Excel Level I (6 Hr)

Recommended: Familiar with basic computer skills

Learn Excel formulas and functions! This workshop introduces the basic tools & shortcuts to become more productive using MS Excel. Learn skills necessary for creating, printing and saving Excel workbooks.

CECW 0211 Excel Working w/ Large Worksheets (3.5 Hr)

Recommended: Excel Level I

Learn how to work with large data sets, multiple worksheets, how to insert/delete, move, copy, and rename worksheets. Other topics include 3-D formulas or formulas using multiple worksheets and multiple workbooks.

CECW 0212 Excel Charts and Graphics (3.5 Hr)

Recommended: Excel Level I

Learn how to present data using Excel Charts; formatting chart objects, legends, data tables, source data, and printing options. Advanced formatting of Gridlines, Axis, Secondary Axis, Trendline, and user defined Charts.

CECW 0213 Excel Database Management/Pivot Tables (3.5 Hr)

Recommended: Excel Level I

Learn how to take raw data and create valuable management reports using Excel Database tools and Pivot Tables. Filter, sort, Conditional Format, Data Bars, Icon Sets, Data Validation, Subtotals, and Database functions.

CECW 0214 Excel Using Advanced Functions (3.5 Hr)

Recommended: Excel Level I

This workshop introduces advanced Excel functions including Financial Functions, IF, AND, OR Logic Functions, VLOOKUP, HLOOKUP, and ISERROR advanced functions. Students will learn Scenarios, Goal Seek, and Custom Views.

CECW 0215 Excel Templates/Sharing Tools (3.5 Hr)

Recommended: Excel Level I

This workshop introduces the skills to organize Excel information; Comments, Worksheet Protection, Workbook Protection, assigning and removing passwords. Students will also learn how to create Excel Templates, and share and track workbooks.

CECW 0216 Excel Macros, Toolbars, and Macro Buttons (3.5 Hr)

Recommended: Excel Level I

Learn how to define, record and run Excel Macros. Students will learn how to edit Macros, enter Macro Commands, use Relative and Absolute References; assign Macro shortcut-Keys, create and modify macro buttons.

DREAMWEAVER

CECW 0603 Dreamweaver (12 Hr)

Recommended: Familiar with basic computer skills

Dreamweaver is powerful web-authoring software to design, create and update web pages. Students will learn how to use the designer-friendly tools to create and maintain professional web pages and entire Websites.

FLASH

CECW 0607 Flash (12 Hr)

Recommended: Familiar with basic computer skills and experience working with images

Learn the fundamentals of using Flash to design animations for the Web. Introduces skills necessary to create shapes, colors, lines, external images, layers, frame-by-frame animation, and work with templates.

CSS3/HTML5

CECW 0612 CSS3/HTML5 (9 Hr)

Recommended: Dreamweaver

This workshop builds on the concepts from the Dreamweaver Workshop. Students learn how to use CSS & XHTML to save time designing, maintaining, and presenting a consistent appearance for Web pages.

INTERNET OVERVIEW

CECW 0601 Internet Overview (3 Hr)

Recommended: Familiar with basic computer skills

Introduces the skills necessary to use the Internet. Students will learn how to navigate, use search engines, create bookmarks, and print information. Internet email (Yahoo, Gmail) and social media sites will be explored.

INTRODUCTION TO THE MAC

CECW 0307 Mac Overview (6 HR)

This workshop will put students in control of the Mac operating system. Learn how to manage files, use Mac programs, and take advantage of the Mac's networking and communications tools.

INTRODUCTION TO PERSONAL COMPUTERS

CECW 0515 Introduction to PC's (3 Hr)

Learn the basics of Personal Computer hardware/ software, Windows features, Start Menu, Taskbar, shortcuts, window views, Cut, Copy and Paste, File Management, and Windows Explorer. A USB drive is included in this workshop.

MICROSOFT OFFICE SUITE

CECW 0507 Microsoft Office Suite (18 Hr)

Recommended: Familiar with basic computer skills

Work smarter not harder. Learn the capabilities of MS Office and improve productivity. Students will learn the basics of Microsoft Word, Excel, PowerPoint and Outlook.

CECW 0990 Microsoft Office Upgrading to Office 2010/2013 (2 Hr)

Recommended: Familiar with basic computer skills

This hands-on workshop will explain the new ribbon interface of MS Office 2010/2013, Quick Access Toolbar, Mini-toolbar and other key changes in the look and feel of MS Office.

MICROSOFT WORD

CECW 0110 Word Level I (6 Hr)

Recommended: Familiar with basic computer skills

This workshop teaches students the shortcuts in MS Word to create, format, print and save Word documents. Students will learn how to work with document views styles, tabs, indenting, bullets, and Headers/Footers.

CECW 0124 Word Level II (6 Hr)

Recommended: Word Level I

This workshop covers dates and symbols, Tables, borders and shading, graphics, Watermarks, WordArt, drawing objects; Mail Merge, labels, catalogs, Sort, and how to record and run Macros.

CECW 0125 Word Level III (6 Hr)

Recommended: Word Level I

This workshop covers AutoFormat, AutoCorrect, AutoText, Find and Replace, and Thesaurus, Outline view, Diagrams, Hyperlinks, Section Headers and Footers, Table of Contents, Bookmarks, Footnotes, Endnotes, Track Revisions, and how to create Master Documents.

MICROSOFT OUTLOOK

CECW 0504 Outlook (3 Hr)

Recommended: Familiar with basic computer skills

Students will learn the skills necessary for working with Outlook to send and receive email, use attachments, schedule appointments, manage Contacts, and organize email using folders.

MICROSOFT POWERPOINT

CECW 0703 PowerPoint Level I (6 Hr)

Recommended: Familiar with basic computer skills and MS Word

This workshop introduces the skills necessary to create PowerPoint presentations; work with the outline tab, Design Templates, AutoContent Wizard, Speaker Notes, slide layout, Slide Transitions and print options.

CECW 0704 PowerPoint Level II (6 Hr)

Recommended: PowerPoint Level I

This course builds on the skills learned in Level I. Students will learn how to create advanced presentations using charts, tables; special effects, editing masters, saving a Custom Template, Special Effects, Animation, Sound and Video.

MICROSOFT PROJECT

CECW 0508 Microsoft Project (12 Hr)

Recommended: Familiar with basic computer skills

Use Microsoft Project to manage projects more effectively. Students will learn how to start new projects, work with Tasks, Views, resources, calendars, define/assign costs, and work with the critical path.

MICROSOFT VISIO

CECW 0825 MS Visio (6 Hr)

Recommended: Familiar with basic computer skills

Use Microsoft Visio software to communicate information by using diagrams. Students will learn about the Visio interface and how to create org charts, network diagrams, drawings, advanced layout and connection techniques.

DESKTOP PUBLISHING

CECW 0701 MS Publisher (3 Hr)

Recommended: Familiar with basic computer skills and MS Word

Microsoft Publisher helps users create, personalize, and share a wide range of professional-quality publications and marketing materials. Create high-quality results without having graphic design experience.

QUICKBOOKS PRO

CECW 0230 QuickBooks Pro Beginning (6 Hr)

Recommended: Familiar with basic computer skills

This workshop will review accounting basics using QuickBooks to set up a company master file, chart of accounts, bank accounts, review menus and reports, how to manage accounts receivable and accounts payable and review balance sheets and profit/loss statements.

CECW 0231 QuickBooks Pro Intermediate (6 Hr)

Recommended: QuickBooks Beginning

Track fixed assets and associated liabilities, depreciation, prepaid expenses, memorized transactions, deposits, sales tax, bank recon-ciliation, petty cash, custom reports, budgets, credit card transactions, retainer payments, discounts, refunds, finance charges, and returned checks.

CECW 0232 QuickBooks Pro Advanced (6 Hr)

Recommended: QuickBooks Intermediate

Learn to use the QuickBooks payroll system to setup employees, enter time, manage deductions, generate payroll checks, monitor tax deposits and prepare quarterly 941 forms. Estimating, job costing, and progress billing will be explored.

CompTIA - COMPUTING TECHNOLOGY INDUSTRY ASSOCIATION

CompTIA workshops are taught using online instructional videos, advanced labs, text summaries and in-person delivery options to help students prepare for industry certification.

CECW 0310 A+ Certification Workshop (12 Hr)

Recommended: Familiar with basic computer skills

A+ training covers basic-to-advanced PC hardware and Windows operating system installation, configuration, and troubleshooting. This workshop helps prepare students to take the CompTIA A+ Essentials and A+ Practical Application certification exams. Students may enroll in-person or online.

CECW 0312 Network+ Certification Workshop (12 Hr)

Recommended: A+ or equivalent experience

The CompTIA Network+ certification covers basic networking concepts for connecting to a network and setting up a small office/home office network. This workshop helps students prepare to take the CompTIA Network+ certification exam. Students may enroll in-person or online.

CECW 0314 Security+ Certification Workshop (12 Hr)

Recommended: A+ and Network + or equivalent experience

The Security+ training covers critical security concepts and skills required for Information Technology security jobs with corporations and the government. This workshop helps students prepare to take the CompTIA Security+ certification exam. Students may enroll in-person or online.

SOCIAL MEDIA FOR BUSINESS

Social Media for Business CECW0620 (12 Hr)

Tuition: $299

Recommended: familiar with basic computer skills

Social Media marketing is essential for any small business. It's relatively low cost keeps it affordable, but using it properly takes preparation, planning and essential basic knowledge. This workshop is designed for small to medium businesses that are new to social media marketing, or are struggling with implementation. We will discuss the research, planning and overall social media strategy necessary to help you get started. In a hands-on environment you will begin implementing and using the tools described below.

Introduction to Facebook Pages for Business
Learn to set up a basic company page, and how to post and schedule posts. The class will also offer techniques and ideas to drive engagement.

Pinterest for Business | Blogging for Business

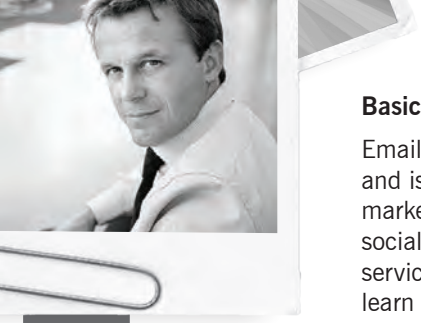
Blogging is an essential part of today's content marketing world. This session will talk about blogging basics, and how to develop and create consistent posts. Pinterest business use is also growing rapidly, and we'll cover fundamentals so you can decide if it's a fit for your business.

Twitter Basics for Business

Twitter usage for business is growing, in this class, we will go through the account setup process, and discuss the common terminology in Twitter and the basics of getting started, strategies to follow people and as much as we can accomplish during the session.

Fundamentals of LinkedIn

Learn the basics of optimizing Linked In and setting up a Company page so you can use this powerful professional network to enhance your networking and business development.



Basics of Email Marketing

Email marketing is alive and well, and is now a cornerstone for content marketing and integration with social media strategies. Using a free service, we'll set up an account and learn tips for list segmentation and creating an email to send to a list.

Facebook Business Pages Beyond the Basics

This module will look into the more advanced features of Facebook, such as Insights, Apps, and methods of Facebook advertising.

WEBSITES FOR PROFESSIONALS

CECW 0613 Personal Websites (2 Hr)

Recommended: Familiar with basic computer skills Learn how to create a professional looking personal website with FREE tools available on the web! No previous website experience is required for this workshop.

CUSTOM COMPUTER WORKSHOPS

The College can also schedule custom training at a business location or at a convenient campus location.

For more information, please call (801) 957-4845 or visit www.slcc.edu/workshops.

Continuing Professional Development

The College offers courses to meet requirements for continuing professional development certification and licensure in a variety of professions. Courses are approved by the Department of Occupational and Professional Licensing (DOPL).

CONTRACTOR CONTINUING EDUCATION

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/contractor

Designed for professionals who need six hours of Continuing Education (Professional Development and Core Curriculum) to maintain their Utah State Contractor's License. The College's Contractor Continuing Education program offers classes to meet Division of Occupational & Professional Licensing (DOPL) requirements. These courses fulfill Professional or Core requirements. Please view the website for details.

Format: Online, CD
Semesters Offered: Available Anytime
Credit/Non-Credit: Non-Credit
Dates for Enrollment: January 1 – June 30

Program Courses:

GREEN ENERGY FOCUS

CECT 0013 Intro to Solar PV (1 Hr)

An introduction to Solar Photovoltaic technology, this course covers the birth of photovoltaic (PV) technology, as well as PV development, market growth, industry applications, and a variety of different solar technologies.

CECT 0014 Solar PV Module Placement (1 Hr)

This course presents the preferred placement of solar PV panels to maximize energy production. Key considerations to take into account such as warranties and added costs for common mounting methods and different roof types are discussed.

CECT 0015 Home Energy Construction Techniques (1 Hr)

Follow this case study of a newly constructed home, which illustrates innovative and cost effective energy-saving construction techniques. Learn how energy efficient construction is affordable and advantageous.

CECT 0021 Energy & the Building Shell (1 Hr)

A full evaluation of the building shell will be presented. Resistance to and conduction of energy across the building shell will be discussed. Air and thermal barriers will be demonstrated as good building practices with respect to the building shell.

CECT 0022 Air Leakage (1 Hr)

This discussion describes the need and importance of a building's air barrier. Common leakage areas and preventative measures will be identified.

CECT 0023 Insulation, Windows & Doors (1 Hr)

The thermal barrier in a building will be described in detail. Areas of thermal bridging and the need for thermal gaps will also be discussed. In addition, the performance of windows and doors and their significance to overall building thermal performance will be presented.

CECT 0024 Greening the Workforce (1 Hr)

This course introduces the concept of "green" building in commercial construction and efforts being made to build a safe, productive, and sustainable workforce of craft professionals. Gain a working knowledge of Green Environment credentials and credentialing organizations.

CECT 0025 Home Air & Water Heating (1 Hr)

This course examines the various methods of heating water and air in the home. Energy efficient methods will be identified.

CECT 0026 Cooling, Lighting & Appliances (1 Hr)

Various methods of air conditioning and their effect on the overall energy performance of the building will be evaluated and discussed.

CECT 0027 Health & Safety (1 Hr)

Provides an overview of common concerns and the effects of space heating, cooling and ventilation on the health and safety of building occupants.

CECT 0028 HERS Test Prep (1 Hr)

This course provides a study guide, test taking tips, and practice questions to help students prepare to take the Home Energy Rating System (HERS) exam.

CECT 0122 Green Certification & Rating (1 Hr)

This course introduces different third-party certifications, ratings and analysis for residential buildings. Focus is on nationally accredited programs and certificates, with introductions to their stakeholders, processes, content, resources, challenges and costs.

SMALL BUSINESS FOCUS

CECT 0031 Immigration Reform & Control Act (1 Hr)
With the recent laws passed at both the Federal and State level regarding immigrant workers, the process of hiring and documenting legal workers has become increasingly more complicated for professional contractors. This course will discuss how to complete the I-9 form and how to run E-Verify on employees. Common mistakes that contractors make during this process will be discussed. Avoiding potential litigation and government audits and fines will also be reviewed.

CECT 0032 Fair Labor Standards (1 Hr)

This course presents issues relevant to the Fair Labor Standards Act; coverage, minimum wage, overtime pay, youth employment and record keeping. Compliance and enforcement of the FLSA will also be addressed as a way to help employers decide whether to hire employees or use independent contractors.

CECT 0033 Workers' Compensation (1 Hr)

Issues concerning Experience Modification will be discussed: the definition, qualifications, comparison rates computation, E-mod management, and the "split point" change. Understanding these issues will help employers make sound business decisions as they relate to staffing.

CECT 0034 Insurance 101: Liability, Workers' compensation (1 Hr)

Insurance coverage, exclusions, and how to reduce the costs associated with liability insurance are presented in the course. Additionally, students will be able to discuss and analyze workers' compensation insurance coverage, how to avoid violating the law when travelling out of state, and other common errors that contractors make.

CECT 0035 Healthcare Reform (Affordable Care Act) (3.5 Hrs)

Healthcare reform will have a significant impact on all employers who offer health insurance to their employees, regardless of the number of employees on staff. Learn about the recent and upcoming changes to health care and how these changes will impact businesses.

CECT 0088: Energy Controls and Analysis (1 Hr)

The focus of this course is on chiller analysis, efficiency and energy costs. Building automation enables many control strategies for reducing building energy costs. This course introduces control variable adjustments and supervisory control strategies aimed at energy conservation. Focus is on control strategies for typical central cooling systems. HVAC energy analysis involves HVAC system engineering, equipment efficiencies, utility costs and life cycle costs.

CECT 0089: Building Codes 101

Overview of the International Code Council, National Fire Protection Association and other building codes and standards adopted by the State of Utah. Reviews compliance to the current adopted codes; as required for building construction across the State of Utah.

UPDATED PROGRAM COURSES

CECT 0010 LEED: Construction & Design (1 Hr)

Overview of LEED (Leadership in Energy & Environmental Design) principles and the rating system used to measure and certify buildings that employ green principles in their construction and design.

CECT 0020 Mechanics' Liens in Utah (1 Hr)
Overview of mechanics' lien law to help contractors and suppliers become more familiar with current laws in Utah. Students will learn the steps they need to take to help protect their lien rights.

CECT 0070 Advanced LEED Topics (1 Hr)

Course focuses on green building and energy conservation issues.

CECT 0123 OSHA & Multi-Employer Policy (1 Hr) (Core)

Examines OSHA's role and what employers need to do to comply with OSHA regulations. Course will review Inspections, PPE, OSHA Record Keeping and Reporting, Hazard Communication, OSHA whistleblower laws and employee rights. OSHA's "focus four" will be discussed (in regards to construction accidents), as well as OSHA's Multi-Employer Citation Policy.

For full course listings, visit:
www.slcccontinuinged.com/contractor

ELECTRICAL CONTINUING EDUCATION

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/electrical

Designed for journeyman electricians who need 16 hours
of Continuing Education credits to maintain their Utah State Electrician's License and meet the Division of Occupational & Professional Licensing (DOPL) requirements. These courses fulfill Professional or Core requirements. Please view the website for details.

Location: Varies
Format: Lecture, Online
Semesters Offered: Varies
Credit/Non-Credit: Non-Credit

Program Courses:

CECT 0006 2011 National Electrical Code (8 Hr)

Course will cover over 400 new codes and definitions of the 2011 NEC requirements for electrical installations. Major changes allowing new forms of alternate energy to power electric vehicles will be studied.

CECT 0009 Electrical Safety & Code Review (8 Hr)

Course covers new code changes, existing code, and common mistakes made on job sites. Learn how to prevent costly mistakes resulting in fines and penalties. New rules on lugs & terminals and GFCI placement in residential dwellings reviewed. Safety, personal protective equipment, OSHA rules, grounding rules and motor control diagrams covered. Must bring a 2011 code book and a calculator to class.

CECT 0013 Intro to Solar PV (1 Hr)

An introduction to Solar Photo Voltaic technology, this course covers the birth of photovoltaic (PV) technology, as well as PV development, market growth, industry applications, and a variety of different solar technologies.

CECT 0014 Solar PV Modular Placement (1 Hr)

This course presents the preferred placement of solar PV panels to maximize energy production. Key considerations to take into account such as warranties and added costs for common mounting methods and different roof types are discussed.

CECT 0198 Theory Test Prep (16 hour)

Two-Saturday course prepares individuals to take the Theory Utah Journeyman or Master Electrical Exam by reviewing each of the primary theory topics covered when sitting for the electrical theory portion of the exam.

CECT 0199 Code Text Prep (16 hour)

Two-Saturday course prepares individuals to take the Code Utah Journeyman or Master Electrical Exam by reviewing each of the primary code topics covered when sitting for the electrical code portion of the exam. Students must bring 2011 NEC Code book to class.

For full course listings, visit:
www.slcccontinuinged.com/electrical

ENGINEERING CONTINUING EDUCATION

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/engineering

Courses designed for professionals who need 24 hours of Continuing Education credits to maintain their Utah State Professional Engineering License. The College's Professional Engineering License Renewal program offers classes that meet the Division of Occupational & Professional Licensing (DOPL) requirements.

Format: Online, CD
Semesters Offered: Available Anytime
Credit/Non-Credit: Non-Credit
Dates: Jan 1 – Jun 30

For full course listings visit:
www.slcccontinuinged.com/engineering

FUNERAL SERVICE DIRECTOR CONTINUING EDUCATION

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/funeral

Designed for professionals who need 20 hours of Continuing Education credits to maintain their Utah State Funeral Service Director License. The College offers classes that meet the Division of Occupational & Professional Licensing (DOPL) requirements.

Format: Online, CD
Semesters Offered: Available Anytime
Credit/Non-Credit: Non-Credit
Dates: Jan 1 - Jun 30

For full course listings visit:
www.slcccontinuinged.com/funeral

Diagnostic Medical Sonography Certificate (Ultrasound)

Contact:
Jennifer Pollock
(801) 957-5351
jennifer.pollock@slcc.edu
www.slcccontinuinged.com/DMS

This two year certificate program prepares students to sit for the national registry examinations in abdominal, obstetric /gynecologic and vascular areas. The next opportunity to apply for this program is in the spring of 2014. For prerequisite requirements please go to www.slcccontinuinged.com/DMS.

Location: Jordan Campus
Semesters Offered: All, starts fall semester in even years
Credit/Non-Credit: Credit
(Credit Programs require application to the College)
Next Program Begins: Fall 2014

ed2go Online Courses

Self-paced; No meeting times; Instructor access

Contact:
Mykel Severson
(801) 957-5407
mykel.severson@slcc.edu
www.slcccontinuinged.com/online

The College offers a wide range of highly interactive courses that students can take entirely over the Internet through our career training partner, Education to Go (ed2go). All courses include access to an expert instructor, many of whom are nationally known authors.

These online courses are affordable, fun, fast and convenient. **Enrolling in and paying for an ed2go course admits students to the College without paying the admissions fee.** These online courses run six to eight weeks beginning once per month. Courses include assignments, quizzes and a final exam. **Students interact with their instructor and other students through a discussion board that is open 24/7!**

Location: All, online
Semesters Offered: All, new session every month
Credit/Non-Credit: Non-Credit

Program Courses:

See ed2go online courses in the Online Courses section, page 33 for complete listing.

Encore Institute (for 50+ adult learners)

Contact:
Mi Yon Hodges,
Encore Institute Manager
(801) 957-5338
miyon.hodges@slcc.edu
www.slcccontinuinged.com/encore

Today's baby boomers aren't slowing down. The Encore Institute at the College is an innovative program serving experienced adults who want to make career transitions, start a new business, explore new interests or rekindle passions. The program offers career workshops, personal enrichment courses, flexible class scheduling, non-degree and degree learning experiences, and affordable training to deepen or expand individual skills.

Location: Various
Semesters Offered: All
Credit/Non-Credit: Non-Credit

Career Booster Programs:
www.slcccontinuinged.com/encore_booster
These career booster online certificates can help individuals take their careers to the next level.

- Non-Profit Management
- Certified Green Supply Chain Professional
- Entrepreneurship: Start-Up and Business Owner Management
- Management for IT Professionals
- Project Management
- Purchasing and Supply Chain Management
- Records Management

Certificate Programs:
www.slcccontinuinged.com/encore_certificates
Pave the way to new jobs and career advancements through short-term certificate training!

- **Healthcare**
  - Doula & Childbirth
  - Pharmacy Technician
  - Administrative Dental Assistant (Online)
  - Clinical Dental Assistant (Online)
  - Medical Billing & Coding (Online)
  - Medical Terminology (Online)
  - Medical Transcription (Online)
  - Optician Certification Training (Online)
  - Certified National Pharmaceutical Representative (Online)
- **Education**
  - Transition to Teaching
  - Information Science
- **Social Services**
  - Therapeutic Recreation Technician
- **Computer Workshops (Designed for busy people)**
  - Adobe Creative Suite



- Microsoft Office
- QuickBooks
- Social Media for Business

- **Professional Credentialing Services**
  - Certiport certifications are valuable, professional credentials which are globally recognized standards for digital literacy and desktop computing proficiency. Candidates who certify on these programs are much better prepared for success in both the classroom and the workplace
- Computer aided design application training

Personal Enrichment Workshops:
Get inspired, rekindle old passions and invest in yourself!

CEEI 0321 Career Transitions: Exploring & Building New Pathways (15 Hr)

What's your next move? Join other seasoned professionals and learn how to pursue your career interests, develop and implement career strategies, network, utilize career tools and resources, and develop a gap analysis. Chart your course and put your education and career plan into action! Cost includes textbook.

CEEI 0322 Savvy Social Security Planning (1.5 Hr)

This informational workshop will share important rules and strategies for: collecting Social Security, estimating benefits, coordinating benefits with a spouse, minimizing taxes, and identifying other sources of retirement income. Find out why advanced planning is essential and what individuals need to know to get the most from their retirement benefits.

CEEI 0323 Easy Musical Keyboarding (7.5 Hr)

This revolutionary "easy to learn" musical keyboarding workshop is designed for those who are 50 plus. Basic music concepts using an easy to follow lesson book will help students improve their mental fitness and develop a new hobby. Workshop covers ten songs from the baby boomer generation, includes two private help sessions and provides free admission to workshops/concerts with the industry's finest artists.

CEEI 0324 Intro to T'ai Chi (24 Hr)

Chi Gung & Tai Chi began in ancient China as means of physical/mental enlivening & rejuvenation. Discover the body's natural process of healing - strengthening joints, circulatory systems & balance. Individuals should wear loose fitting clothing and comfortable, non-slippery shoes (tennis shoes, Keds or sneakers).

CEEI 0331 Smart Investing for Retirement (6 Hr)

Retirement is one of life's biggest transitions and it's important to have an exit strategy. Discover the financial tools needed to plan a future with confidence! Topics include: 1) How much is enough? 2) Investment fundamentals for retirement income 3) Basics of income annuities 4) Advanced techniques for generating retirement income.

CEEI 0332 Keep It Movin' (30 Hr)

This low impact training is geared with the baby boomer in mind! This strength training and balance workout is provided in a fun atmosphere. Class meets at Alta Canyon Sports Center in Sandy for 15 weeks.

CEEI 0333 Basic Nutrition for a Healthier Life (10 Hr)

Improve your health by learning how the human body reacts to calories, hydration, carbohydrates, fiber, protein, fat, vitamins and minerals. Students will also learn how diet can affect diseases such as inflammation, allergies, hypertension, cholesterol, and much more.

CEEI 0334 Introduction to Square Foot Gardening (2 Hr)

Discover the advantages of a Square Foot Gardening (SFG) system as well as basic concepts of planting, spacing and the secret to a successful soil mix. Learn from a certified SFG professional and author of *The Wealthy Earth*, Jim Teahan, who trained under the founder of SFG, Mel Bartholomew!

CEEI 0335 Intermediate Square Foot Gardening (2 Hr)

This is a continuation of the introductory SFG workshop. Learn about SFG soil structure, composting, advanced techniques, vertical gardening and gardening protection.

CEEI 0336 Advanced Square Foot Gardening (3 Hr)

This hands-on workshop will build on previously taught SFG concepts. Building a light station, sprouting seeds, composting methods for saving seeds and increasing efficiency will be introduced. Bring working gloves and a note pad.

CEEI 0350 Laughter Yoga (8 Hr)

This is a mind/body class practicing laughter to lower stress hormones, foster a positive and hopeful attitude and help increase health and vitality through unconditional laughter and breathing.

CEEI 0353 Beginning Oil Painting (10 Hr)

Discover the art of oil painting through this hands-on work shop! Instructor will introduce art supplies; colors and values; design compositions and techniques to enable students to create a beautiful painting to take home!

CEIP 0014 Basic Motorcycle Rider for 45+ (16 Hr)

This course covers the fundamentals of becoming a safe and responsible motorcycle rider. It helps students learn the physical and mental skills required for operating a motorcycle in everyday riding situations. It also provides a wealth of practical advice on basic motorcycle safety

checks, the types and benefits of motorcycle-specific riding apparel, and time-proven techniques for becoming a safe, more confident rider.

Designer Cookies

- CEEI 0337 Module 1 All About Dresses (3 Hr)
- CEEI 0338 Module 2 Baby Shower Bibs (3 Hr)
- CEEI 0339 Module 3 Birthday Cakes & Balloons (3 Hr)
- CEEI 0340 Module 4 Springerle German Cookies (5 Hr)
- CEEI 0341 Module 5 Festive Cookie Ornaments (3 Hr)

These hands-on workshops will teach students how to create simply exquisite cookies for any season and occasion—so simple even the novice will feel like a pro! Bring a container to take cookies home.

Creative Molds

- CEEI 0342 Module 1 Sea Shells and Flowers (3 Hr)
- CEEI 0343 Module 2 Buttons and Jewels (3 Hr)

Decorate with creativity through this hands-on workshop and amaze everyone with clever, crafty, edible decorations!

Chocolate Art

- CEEI 0344 Module 1 Edible Chocolate Designs (3 Hr)
- CEEI 0345 Module 2 Modeling Chocolate (3 Hr)

Learn how to create edible chocolate designs and how to use modeling chocolate to create fantastic designer-style desserts. This is a hands-on workshop for everyone to love!

CEEI 0349 Discovering the World of Wine (4 Hr)

Explore and taste the six noble grape varieties of the world! Students will enjoy learning about the "markers" of each grape variety, organoleptic wine evaluation techniques and shopping tips for the best wine values! Bring a photo ID to class.

CEEI 0351 Champagne and Sparkling Wine (2)

Taste six sparkling wines from France, Italy, Spain, & the new world paired w/ appetizers & plenty of ideas for holiday parties. Learn about Methode Champenoise style of production & Champagne's most impressive price tag of all sparkling wines.

CEEI 0352 Fortify Your Knowledge of Port Wine (2)

Taste three styles of port wine paired with blue cheeses and chocolates while you learn the history and production methods of the world's most popular and collectible fortified wine.

Photography

CEEI 0100 Basic SLR Digital Photography (10 Hr)

Learn the basics of SLR photography: ISO, Program Modes, Aperture, Shutter Speed, Priorities, Depth of Field, Photo Composition, and much more. Students will need to bring an SLR digital camera and instruction manual to class.

CEEI 0110 SLR Photography: Beyond the Basics (Varies)

Go beyond the basics in this hands on class. Learn about flash, motion, landscape, night, and home studio lighting photography. Students will participate in five evening workshops to shoot with a professional photographer and receive feedback on their work.

Contact:
Stephanie Roberts
(801) 957-5303
stephanie.roberts@slcc.edu
www.slcccontinuinged.com/photo

For more information about Photography, please see page 29.

Visit **www.slcccontinuinged.com/encore** for current class and workshop listings.

Event and Meeting Planner Certificate

Contact:
Mi Yon Hodges
(801) 957-5338
miyon.hodges@slcc.edu
ww.slcccontinuinged.com/event

This certificate program is designed for new and aspiring meeting and event professionals, as well as those seeking a career change. Event and meeting planning is a multi-billion dollar industry. Organizations are becoming increasingly concerned about getting a higher return on investment. Employers recognize the need for an educated and skilled workforce. Students completing all nine online courses will be awarded a certificate upon completion. Students may also enroll in individual courses to increase their skills and knowledge in areas of specific interest.

Location: Online
Semesters Offered: All
Program Courses:

EVNT 1010 Intro to Event & Meeting Planning (2 Cr)

Acquaints students with the common components of well executed meetings and events. Course introduces site selection, food/beverage, audio visual, contracts and industry overviews, as well as career possibilities.

EVNT 1100 Site Selection/Negotiation/Law (2 Cr)

This course outlines the key elements to successful site selection, negotiation issues/techniques, contract provisions, analysis & diverse industry contracts. Legal issues unique to the meeting industry will be identified.

EVNT 1200 Transportation & Housing (2 Cr)

The logistics of air and ground transportation and hotel arrangements will be discussed. Students will learn trade strategies to make informed decisions leading to a successful meeting experience.

EVNT 1300 Event Registration (2 Cr)

This course will introduce students to various registration systems and keys to selecting the best registration method. Students will learn the process to make informed decisions leading to a successful meeting experience.

EVNT 1400 Food & Beverage Management (2 Cr)

Learn a systematic approach to evaluating meeting objectives and group needs as they relate to menu design, pricing structures, guarantee strategies, negotiation items and overall information about food and beverage services.

EVNT 1500 Hotel Sales & Operations (2 Cr)

Introduction to the principles and procedures of hotel sales and operations by taking part in hands-on activities. Learn networking, building internal and external relationships and selling techniques.

EVNT 1600 Special Events (2 Cr)

Students will be provided with the tools needed to hold effective special events. Venues include conferences, exhibits, fairs, trade shows, international events, and weddings.

EVNT 1700 Non-Profit Event Planning (2 Cr)

This course will focus on planning successful special events for non-profit organizations. Students will explore fund-raising breakfasts, black tie galas, festivals, auctions, and sporting events.

EVNT 1800 Money Management for Event Planners (2 Cr)

Course will introduce the essential tools needed to prepare a budget for events of all sizes, to gather information, analyze goals/objectives and prepare and communicate presentations to clients.

Green Academy

The courses, programs and degree opportunities of the Green Academy have grown since the inception in March 2009. Whether starting a career, transitioning to a new field of work or, seeking industry updates on the latest technology and trends the Green Academy can help participants meet their needs. Courses are available in the following areas:

- Automotive Compressed Natural Gas Conversion
- Electric Power Technology
- Energy Management A.A.S. Degree
- Building Energy

Green Lighting Certificate

- Lineworker, Metering and Substation Apprenticeship
- HAZWOPER & OSHA
- Solar Photovoltaic Certificate
- Sustainability Certificate

Find more information about all these options at:
www.slcccontinuinged.com/greenacademy

Location: Various
Semesters Offered: All
Credit/Non-Credit: Both
(Credit programs require application to the College)

AUTOMOTIVE COMPRESSED NATURAL GAS CONVERSION

Contact:
Judy Fisher
(801) 957-5252
judy.fisher@slcc.edu
www.slcccontinuinged.com/CNG

Location: Miller Campus
Semesters Offered: All
Credit/Non-Credit: Non-Credit

Program Courses:

CESU 0100 CNG Vehicle Conversion (48 HR)

This course includes theory behind the operation of CNG/NGV systems, conversion, installation, inspection and repair. The class is taught in a modern, up-to-date facility by experienced instructors and provides hands-on practical application (including an actual conversion), as well as solid preparation for relevant industry certifications.

INTRO TO BUILDING ENERGY

Contact:
Judy Fisher
(801) 957-5252
judy.fisher@slcc.edu
www.slcccontinuinged.com/buildingenergy

Location: Miller Campus
Semesters Offered: All
Credit/Non-Credit: Non-Credit

Program Courses:

CEGC 0100 Intro to Building Energy (30 Hr)

This course provides an introduction to the science of building energy efficiency. A whole house approach to building design and construction is utilized. Topics include principles of energy, understanding the thermal envelope and its relationship to the various systems of a residence or light commercial property such as heating, ventilation, and lighting.

CEGC 0120 RESNET/HERS Rater Exam Prep (10 Hr)

The HERS course is intended to prepare students to pass the national HERS exam and become licensed HERS raters. The course consists of two parts:
1. Training on the REMRate modeling software and a field rating experience and
2. Study guides, practice tests, and testing taking tips for the HERS exam.

ELECTRIC POWER TECHNOLOGY

Contact:
Pete Reed
801-957-5325
Pete.reed@slcc.edu
www.slcccontinuinged.com/electricpower

The College's Electric Power Technology Certificate program provides training for developing and enhancing workforce skills in the electric power sector. Courses are taught by experienced professionals in the power industry. Students acquire valuable skills through class work and hands-on lab experience. Successful participants are prepared to pursue career options as electric lineworkers, substation technicians, meter technicians or electromechanical technicians. Class topics include: electricity for the power sector; pole climbing, ropes and rigging; electrical distribution; transformer basics; digital electronics and electromechanical systems.

Location: Miller Campus
Semesters Offered: All
Credit/Non-Credit: Non-Credit

Program Courses:

CESG 0175 Math for Industry (45 Hr)

Students learn the necessary math skills for application in the electrical industry. Content includes fundamental concepts of algebra, equations, and basic trigonometry that relates to industry scenarios.

CESG 0400 Basic Electricity for the Power Industry (90 Hr)

An introduction to basic electrical theory with practical applications used in the energy industry. Subjects include: Introduction to Electrical Circuits, DC electrical theory, AC electrical theory, Electrical Test Equipment, and an Introduction to the National Electric Code.

CESG 0500 Pole Climbing, Ropes and Rigging (90 Hr)

Students learn to identify and implement the proper application of ropes, slings and rigging for electrical industry applications. Subjects include the care and maintenance of ropes and equipment, and hands-on training leading to proficiency in pole-climbing and rigging tasks.

CESG 0450 Transformer Basics (45 Hr)

This course exposes students to transformer design and operation that emphasizes the installation and maintenance of transformer equipment. Subjects include: three-phase transformers; autotransformers and reactors; safety requirements and troubleshooting.

CESG 0441 Electrical Distribution Systems (90 Hr)

The design and construction of electrical distribution systems are covered in this course. Topics include: substations, overhead and underground transmission and distribution lines, conductors and insulators, high and low-voltage troubleshooting procedures, and stringing and live-line procedures.

CESG 0600 Print Reading (45 Hr)

An introductory course in electrical utility blueprint reading which defines the physical and electrical arrangements of equipment including power plants, substations, transmission lines, distribution lines and customer service facilities. This is a critical skill for individuals who operate, maintain, repair or modify utility equipment.

CESG 0610 Digital Electronics (45 Hr)

This course is designed to introduce students to digital electronics devices and systems. This course will emphasize the theory of operation as well as installation and troubleshooting of these devices and systems through lectures and hands-on training.

CESG 0620 Electromechanical Systems (45 Hr)

A study of devices and components that translate electrical energy into mechanical motion. Topics include DC and AC motors and controllers, servo motors, stepping motors, solenoids, linear motors, and actuators. The course also introduces the student to programmable logic controllers, ladder logic, and PID controllers.

CESG 0630 Underground Distribution Systems (90 Hr)

This course is designed to introduce students to the design and construction of underground electrical distribution systems and the challenges that an underground structure presents. Students will be trained to safely perform a number of common distribution tasks typically performed in the construction and maintenance of an underground distribution system.

ENERGY MANAGEMENT DEGREE (A.A.S.)

Contact:
Scott Johnson (801) 957-5404
scott.johnson@slcc.edu
www.slcccontinuinged.com/energymanagement

A cutting-edge training in energy management is available through Salt Lake Community College in partnership with Rocky Mountain Power and Questar Gas. Students start and finish the 18-month program as a cohort.

Energy management training is a collaborative effort be- tween the School of Applied Technologies and Professional Development, and the School of Science, Mathematics and Engineering.

Training is designed to accommodate working professionals. Most classes are held three nights a week from 5:30 p.m.

– 9:00 p.m. at the Larry H. Miller Campus, 9750 South 300 West in Sandy.

Accreditation
Salt Lake Community College is accredited by the Northwest Commission on Colleges and Universities (NWCCU).

Transfer Opportunity
Students who successfully complete the Energy Management AAS degree may transfer to Bismarck State College to complete a Bachelor of Applied Science in Energy Management.

Training Prerequisites

- MATH 0990 with a C or better, or appropriate Accuplacer score placing into or above MATH 0990.
- WRTG 0990 with a C or better, or appropriate Accuplacer score placing into or above
- Basic proficiency in MS Excel

Training requires 18 months to complete and is held in seven 10-week blocks.

Location: Miller Campus

Cohort Begins: Fall

Monday, Wednesday & Friday Evenings

Credit/non-Credit: Credit (Credit programs require application to the College and coordinator registration for required program courses)

Required Program Courses: (46 Cr)

ARCH 1100 Intro to Arch. Drawing (3 Cr)

Learn how to design and produce architectural drawings used in residential projects. Covers practical and drafting skills in the production of floor plans, sections, details, elevations and schedules.

CSIS 1019 Spreadsheet Applications (2 Cr)

Prereq: Basic proficiency in MS Excel

Introduction to business use of spreadsheets, using MS Excel to analyze questions found in a typical business setting. Create accurate, professional-looking spreadsheets and graphs.

PHYS 1010 Elementary Physics (3 Cr)

This conceptual survey course covers introductory physics for non-science majors. Covers principles of mechanics, heat, light, sound, electricity, magnetism and modern physics.

EGMT 1010 Intro to Energy Management (2 Cr)

Overview of the energy management field and defines the need of energy management as an integral part of society. Presents various vocational opportunities through lectures, guest speakers and site visits.

EGMT 1110 HVAC Energy Analysis I (2 Cr)

Prereq: EGMT 1010

Introduction to residential and light commercial energy use. Includes heating and cooling systems, building envelope, insulation type, blower doors, indoor air quality, heat loss calculations and building instruction.

EGMT 1120 Commercial Energy Analysis (3 Cr)

Prereq: EGMT 1210, MATH 1010

Analyze energy use and management in light commercial buildings. Discuss preparing for and performing walk-through audits in apartments, restaurants and retail/office complexes. Emphasizes analyzing data from field experience.

EGMT 1130 Building Energy Simulations (3 Cr)

Prereq: EGMT 1120

Course reviews computer programs available for analyzing commercial buildings. Includes code and output format, BIN methodology, hourly simulations and programs on market. Perform simulations under supervision.

EGMT 1210 HVAC Energy Analysis II (2 Cr)

Prereq: EGMT 1110, MATH 1010, PHYS 1010

Review the refrigeration cycle, HVAC system types, air duct design, psychrometrics, energy conserving retrofit options and tuning, operating and maintenance (TOM).

EGMT 1220 Commercial A/C Sys Analysis (2 Cr)

Prereq: EGMT 1210

Explores common commercial A/C systems. Site visits help identify system types and conservation opportunities associated with each technology will be discussed.

EGMT 1230 Energy Control Strategies (3 Cr)

Prereq: EGMT 1220, EGMT 1240, EGMT 1700

Course covers devices used to regulate energy use in buildings. Emphasis on control/calibration problems and redesigning for energy efficiency.

EGMT 1240 Energy Efficiency Methods (2 Cr)

Prereq: PHYS 1010, MATH 1010, EGMT 1110

Emphasis on energy management calculation methods using computerized spreadsheets, focusing on energy conversion factors, dimensional analysis and documentation standards. Practice fundamental efficiency calculations for combustion motors and refrigeration.

EGMT 1310 Lighting Fundamentals (2 Cr)

Prereq: EGMT 1110, MATH 1010, PHYS 1010, EGMT 1700

Assess quantity and quality of light, light sources and controls, luminaries, manufacturer lamp and ballast specifications, lighting power density and HVAC interactions, retrofit opportunities, cost saving annually, lighting codes/regulations and lighting audit projects.

EGMT 1320 Lighting Applications (2 Cr)

Prereq: EGMT 1310

Review terminology and lighting fundamentals, IES illuminance selection procedures, lighting system evaluation, luminaries and associated components. Perform illuminance calculations, including point-by-point, lumen and computerized procedures.

EGMT 1410 Energy Investment Analysis (2 Cr)

Prereq: EGMT 1110

Discusses appropriate energy efficiency measure investment, utility rate schedules, simple payback analysis, compound interest, time value of money, cost estimation, life cycle cost analysis and simulation tools. LCCA project requirement.

EGMT 1420 Energy Accounting (2 Cr)

Prereq: CSIS 1019

Reviews energy units, data gathering for energy accounting utility rates and schedules, energy data organization, baselines, cost avoidance, load factor, data analysis, data presentation, ENACT software and spreadsheet development.

EGMT 1540 Alternative Energy Technologies (2 Cr)

Survey sources of energy that may be used to increase energy supply in the Mountain West region. Includes wind, geothermal, solar and biomass. Assess environmental, social and economic advantages of each.

EGMT 1700 Basic Electrical Theory (3 Cr)

An overview of basic electrical theory and the National Electrical Code in conjunction with practical applications used in the energy industry. Specific topics include: an introduction to Electrical Circuits, DC Electrical Theory, AC Electrical Theory, Basic Electronic Theory, Electrical Test Equipment, and Introduction to the National Electrical Code.

EGMT 2060 Energy Management Seminar I (1 Cr)

Increase understanding of industry expectations, as well as develops job search tools/skills. Transition from classroom to co-op to professional careers.

EGMT 2065 Energy Management Seminar II (1 Cr)

Increase understanding of industry expectations, as well as develops job search tools/skills. Transition from the classroom to a professional career.

EGMT 2800 Energy Management Internship (4 Cr)

Prereq: Completion of all major course requirements.

Course provides relevant field experience that integrates theory and practice while providing opportunities to develop skills, explore career options and network with professionals and employers in the energy management field.

GENERAL EDUCATION REQUIREMENTS (19 Cr)

- Composition (EN) – 6 Cr Hours
  ENGL 1010 Introduction to Writing
  ENGL 2100 Technical Writing
- Quantitative Studies (QS) – 4 Cr Hours
  MATH 1010 Intermediate Algebra
  Communications (CM) – 3 Cr Hours
  Choose one of the following:
  COMM 1010 Elements of Effective Communications (CM, IN)
  COMM 1020 Principles of Public Speaking (CM, IN)
  COMM 1020 Career Speech Skills (CM)
- Human Relations (HR) – 3 Cr Hours
  COMM 2110 Interpersonal Communications (ID, HR)
  CTEL 1010 Leadership & Team Building (HR)
  LE 1220 Human Relations- Career Development (SS, HR)
  MKTG 1960 Professionalism in Business (HR)
- Distribution Areas – 3 Cr Hours
  Choose one of the following (see SLCC General Catalog for options in each of these categories.):
  Biological Sciences (BS)
  Fine Arts (FA)
  Humanities (HU)
  Interdisciplinary (ID)
  Physical Science (PS)
  Social Science (SS)

Program Technical Electives: (2-3 Cr)

ACCT 1110 Financial Accounting I (3 Cr)

An introduction to the concepts and methods underlying the preparation of financial statements using generally accepted accounting principles. Topics covered include the accounting cycle, cash and inventories.

ARCH 2990 Green Building (3 Cr)

Introduction to the principles of sustainability as they apply to current and future needs. Approach the responsibility of caring for the environment by designing energy-efficient buildings and earth-friendly homes. Many small design projects accompany research toward sustainable architecture.

CMGT 1010 Building Construction Overview (3 Cr)

Students receive an overview of a building from start to finish. Students will learn materials, tools and practices used in the construction industry. Topics include framing, concrete, finish work, cabinets, and construction management.

COMM 1140 Environmental Communication (3 Cr)

Covers the organization and delivery of facts to a mass audience, specifically communicating about issues related to sustainability. Course offers hands-on experience in both traditional media and new communication technologies.

ECON 2250 Environmental Economics (3 Cr)

Students will evaluate the costs of environmental degradation and determine their point of impact. They will recommend best economic measures for minimizing costs to society. Economic sustainability will be considered.

EGMT 1710 Basic Photovoltaic Systems (3 Cr)

Prereq: EGMT 1700 or Instructor Approval

Introduction to the basics of PV system components. Learn to conduct site evaluations, select components and size the major components of PV systems.

EGMT 1720 Adv. Photovoltaic Systems (3 Cr)

Prereq: EGMT 1710 or instructor approval

Learn to safely work with photovoltaic systems, conduct site assessments, select a system design, adapt mechanical and electric designs, install subsystems and components, perform system checkouts and maintain systems.

GEOG 1000 Earth's Surface Environment (3 Cr)

This course examines the interrelationships of land, water, and atmosphere in the human environment. Location of features and countries is also emphasized.

GEOG 1400 Human Geography (3 Cr)

The thematic study of human activity (population, religion, language, migration, industry) and the global distribution
of these activities.

GEOG 1800 Geospatial Technology (3 Cr)

Course provides a foundation for skill development in GIS. Introduces multiple sources for acquiring and analyzing data with basic GIS application.

GEOG 2200 Urban Environmental Issues (3 Cr)

Investigates the effect of encroachment of the urban environment on the natural environment, and the complexity of interrelationships at local, national and global levels that define the individual's role.

GREEN LIGHTING CERTIFICATE

Contact:
Judy Fisher
(801) 957-5252 judy.fisher@slcc.edu www.slcccontinuinged.com/green academy

Come explore the many opportunities for reducing energy costs through the use of energy-efficient lighting. Students will learn about up to date methods and materials for retrofit opportunities and how to conduct a lighting audit to complete a cost savings analysis. Completion of courses earns a Certificate of Achievement confirming 105 hours of instruction. Courses are non-credit but can be taken for credit by fully enrolled SLCC students.

Location: Various and online
Semesters Offered: SP Credit/non-
Credit: Credit or Non-Credit
Program Courses:

CEAE 0100 / EGMT 1700 Basic Electrical Theory for Renewable Energy (45 Hr)

Students gain a basic understanding of electricity pertaining to renewable energy fields. Topics include: electrical circuits, AC/DC electronic theory, electrical test equipment, and an introduction to the National Electric Code.

CEEM / EGMT 1310 Lighting Fundamentals (2 Cr)

Prereq: CEAE 0100 / EGMT 1700

Assess quantity and quality of light, light sources and controls, luminaries, manufacturer lamp and ballast specifications, lighting power density and HVAC interactions, retrofit opportunities, cost saving annually, lighting codes/regulations and lighting audit projects.

CEEM / EGMT 1320 Lighting Applications (2 Cr)

Prereq: CEEN/EGMT 1310

Review terminology and lighting fundamentals, IES illuminance selection procedures, lighting system evaluation, luminaries and associated components. Perform illuminance calculations, including point-by-point, lumen and computerized procedures.

LINEWORKER, METERING, SUBSTATION APPRENTICESHIP

Contact:
Pete Reed 801-957-5325
Pete.reed@slcc.edu
www.slcccontinuinged.com/lineman

These programs are designed to provide related technical instruction for students currently employed as apprentice workers in the electric power transmission and distribution industry. Lineworker, Metering and Substation apprenticeship programs are offered.

Location: Miller Campus and Online Semesters

Offered: Fall & Spring Credit/non-
Credit: Non-Credit
Not already employed in the electric sector industry please see electric power technology on page 17.

HAZWOPER & OSHA

Contact:
Judy Fisher
(801) 957-5252 judy.fisher@slcc.edu www.slcccontinuinged.com/OSHAHAZWOPER

Courses are provided through University of Utah's Rocky Mountain Center for Occupational and Environmental Health. Register for HAZWOPER & OSHA courses through the University of Utah: Call (801) 581-4055 or visit http://medicine.utah.edu/rmcoeh/contedprog/2014courseschedule.htm

SOLAR PHOTOVOLTAIC CERTIFICATE

Contact:
Judy Fisher
(801) 957-5252 judy.fisher@slcc.edu www.slcccontinuinged.com/solar
Location: ONLINE & **various Semesters Offered:** All **Credit/non-Credit:** Non-Credit

Program Courses:

CEAE 0100 Basic Electrical Theory for Renewable Energy (45 Hr)

Students gain a basic understanding of electricity pertaining to renewable energy fields. Topics include: electrical circuits, AC/DC electronic theory, electrical test equipment, and an introduction to the National Electric Code.

CEAE 0200 Basic Photovoltaic Systems (PV)Installation (45 Hr)

Prereq: CEAE 0100 or instructor approval

Introduction to the basics of PV system components. Learn to conduct site evaluations, select components and size the major components of PV systems.

CEAE 0300 Adv. Photovoltaic Systems (48 Hr)

Prereq: CEAE 0200 or instructor approval

Learn to safely work with PV, conduct site assessments, select a system design, adapt mechanical and electric designs, install subsystems and components, perform system checkouts and maintain systems.

CEAE 0500 NABCEP PV Cert. Exam Prep (16 Hr)

16 hours of intensive review in a two-day course (two Saturdays) designed to prepare students to be accepted by NABCEP to sit for the PV Installation Professional exam. Class instruction is detailed and fast paced. Class size is limited to ensure that each student receives quality training. The course content is built around the NABCEP learning objectives to help prepare students for the exam.

CEAE 0410 NEC 2011 Solar (8 Hr)

This course covers 2011 NEC requirements that govern solar installations. Students will gain an understanding of solar photovoltaic electrical energy systems and how they relate to other electrical power production sources. Learn about "how to" and "how not" topic, and utility-interactive systems. 2011 NEC Code book required. Electricians, electrical inspectors and PV installers should attend.

Electricians will receive 8 hours of DOPL continuing education credits and PV installers will receive 8 hours of NABCEP (North American Board of Certified Energy Practitioners) continuing education credits for the course.

SUSTAINABILITY CERTIFICATE

Contact:
Adam Dastrup
(801) 957-4880
adam.dastrup@slcc.edu
www.slcccontinuinged.com/sustainability

There is a growing interest in and need for sustainability practices in homes and throughout the community. Sustainability finds solutions through innovative approaches and practices environmental stewardship.

This certificate is for both AAS and AS/AA students pursuing other major programs who want to be well versed in sustainability issues. Students who are working and want to augment their skills by getting an overview of sustainability issues and practices will also benefit from this program.

Location: Various
Semesters Offered: All
Credit/Non-Credit: Credit
CORE REQUIRED COURSES:

To complete the Sustainability Certificate, students are required to take the following core courses for a total of 12 credit hours:

BIOL 1400 – Environmental Science (3 Cr)
ECON 2250 Environmental Economics (3 Cr)
ENVT 2200 Laws/Policy for Sustainability (3 Cr)
PHIL 2300 Intro to Environmental Ethics (3 Cr)

SCIENCE FOCUS:
A minimum of 12 credit hours are required from the following courses:

BIOL 1070 Marine Biology/1075 lab (4 Cr)
BIOL 1120 Conservation Biology (3 Cr)
BIOL 2220 Ecology/2225 lab (4 Cr)
CHEM 1210 General Chemistry I (4 Cr)

GEO 1060 Environmental (3 Cr)
GEO 1065 Environmental Lab (1 Cr)
GEOG 1000 Earth's Surface Environments (3 Cr)
GEOG 1400 Human Geography (3 Cr)
GEOG 1700 Natural Disasters (3 Cr)
GEOG 1800 Geospatial Technology (3 Cr)
GEOG 2200 Urban Environmental Issues (3 Cr)
MET 1010 Introduction to Meteorology (3 Cr)

HUMANITIES FOCUS:
A minimum of 12 credit hours are required from the following courses:

COMM 1140 Environmental Communication (3 Cr)
GEOG 1400 Human Geography (3 Cr)
GEOG 2200 Urban Environmental Issues (3 Cr)
PSY 2400 Eco-Psychology (3 Cr)

TECHNOLOGY FOCUS:
A minimum of 12 credit hours are required from the following courses:

ARCH 2990 Special Topics: Sustainability and Green Building (Variable)

AUTO 1299 Special Topics: Auto Training in Alternative Fuels (Variable)

CHFA 1600 Herb Horticulture (1 Cr)
CS 1030 Connected Computing (3 Cr)
GEOG 1800 Spatial Technology and Analysis (3 Cr)
GEOG 1820 Applied GIS (3 Cr)
GEOG 2920 Advanced GIS (3 Cr)

Health and Wellness

Contact:
Paula Nielson-Williams
(801) 957-5140
paula.nielson-williams@slcc.edu
www.slcccontinuinged.com/healthwellness

Continuing Education's Health and Wellness programs focus on professional development courses. In addition, Continuing Education works in partnership with the Health and Lifetime Activities Division to offer classes to help students get fit. Courses are offered at both on-campus and off-site locations. Please refer to the College's General Catalog for more detailed information about classes that
are offered for credit.

DOULA & CHILDBIRTH EDUCATION

Contact:
Paula Nielson-Williams
(801) 957-5140
paula.nielson-williams@slcc.edu
www.slcccontinuinged.com/doula

Location: Taylorsville Redwood and Jordan campuses
Semesters Offered: Fall, Spring
Credit/Non-Credit: Credit and Non-Credit
(Credit Programs require application to the College)

Program Courses:

HLTH 1300 Doula & Childbirth Preparation (3 Cr)
CEHW 0300 Doula & Childbirth Preparation (Non-Credit)

This course covers the pre and post partum period of pregnancy as well as labor and delivery. Learn what to expect in pregnancy, childbirth and the postpartum period.

GROUP FITNESS INSTRUCTOR TRAINING

Contact:
Paula Nielson-Williams
(801) 957-5140
paula.nielson-williams@slcc.edu
www.slcccontinuinged.com/groupfitness

Learn skills and build the knowledge base to become a certified group fitness instructor. The program also teaches practical skills including, but not limited to classroom management, cueing, safety, modifications, music speed, choreography, and exposure to a variety of group fitness classes and fitness modalities.

Location: Taylorsville Redwood Campus
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit
(Credit Programs require application to the College)

Program Courses:

HLTH 1325 Intro to Group Fitness Instructor (3 Cr)

CEHW 0325 Intro to Group Fitness Instructor (Non-Credit)

Assists students in their preparation for certification as a fitness professional by covering the educational basic components of teaching a safe and effective group fitness class.

LAUGHTER YOGA INSTRUCTOR TRAINING

Contact:
Paula Nielson-Williams
(801) 957-5140
paula.nielson-williams@slcc.edu
www.slcccontinuinged.com/lYoga

This program will train successful students to lead laughter Yoga and meditation sessions for social clubs, corporate clients, senior citizens, school children, and more. Graduates will receive a Certified Laughter Yoga Leader (CLYL) certificate and will be listed on Dr. Madan Kataria's laughter Yoga website.

Location: Taylorsville Redwood Campus
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit (Credit Programs require application to the College)

Program Courses:

HLTH 1243 Intro Laughter Yoga Instructor (3 Cr)

CEHW 0243 Intro Laughter Yoga Instructor (Non-Credit)

Prereq: HLTH 1242 Recommended

Train to become a Certified Laughter Yoga Leader (CLYL). Learn how to lead laughter Yoga and meditations sessions for social clubs, corporate clients, senior citizens, and school children. After successful completion of this course students will be qualified as a CLYL.

THERAPEUTIC RECREATION TECHNICIAN

Contact:
Paula Nielson-Williams
(801) 957-5140
paula.nielson-williams@slcc.edu
www.slcccontinuinged.com/TRT

This program consists of 10 nine-hour sessions. It is an introduction to the field of therapeutic recreation and provides a foundation for students to obtain a Therapeutic Recreation Technician (TRT) license. Explore various approaches to programming for populations who are geriatric or who have substance abuse, psychiatric, or developmental disabilities. The course prepares students to take the state Therapeutic Recreational Therapist Exam that is required to work in the field.

Location: Taylorsville Redwood Campus
Semesters Offered: Spring, Fall
Credit/Non-Credit: Credit and Non-Credit
(Credit Programs require application to the College)

Program Courses:

HSS 1500 Therapeutic Recreation Tech (6 Cr) CEHS 0500 Therapeutic Recreation Tech

(Non-Credit)

Introduction to basic principles of recreation therapy and general overview of the field
Covers areas related to rules and regulations, assessment, documentation, planning, and program implementation.

YOGA INSTRUCTOR TRAINING

Contact:
Paula Nielson-Williams
(801) 957-5140
paula.nielson-williams@slcc.edu
www.slcccontinuinged.com/Yoga

This series of courses prepare students to become a Yoga instructor. The courses follow the Yoga Alliance requirements and the College has been approved as an official Yoga Alliance School at the 200-hour level. During the course students learn various asanas, Yoga philosophies, meditation, pranayama, Yoga anatomy and physiology, chakras and nadis.

Location: Taylorsville Redwood Campus
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit
(Credit programs require application to the College)

Program Prerequisites:

HLAC 1057 Yoga I (1 Cr)

Introduction to Hatha Yoga stretching, breathing and relaxation techniques. Helps stress management, meditation, peace of mind and self-awareness. Emphasizes overall balance and lifelong wellness concepts.

OR

HLAC 1058 Yoga II (1 Cr)

Prereq: HLAC 1057 or instructor permission.

Introduction to more advanced Hatha Yoga emphasis on balance and lifelong wellness concepts.

OR

A personal Yoga practice.

PROGRAM COURSES

HLTH 1350 Intro to Yoga Teacher Training (3 Cr)

CEHW 0350 Intro to Yoga Teacher Training (Non-Credit)

Prereq: HLAC 1057, HLAC 1058 or personal practice recommended.

Class covers the following principles of Yoga:asanas, pranayamas, kriyas, chanting, mantra, meditation and other traditional Yoga practices. Gives equal time to analytical training, teaching and practice techniques.

HLTH 1355 Yoga Teacher Training II (2 Cr)

CEHW 0355 Yoga Teacher Training II (Non-Credit)

Covers human physical anatomy, physiology and energy anatomy and physiology as applied to the subject and Yoga practice.

HLTH 1360 Yoga Teacher Training III (3 Cr)

CEHW 0360 Yoga Teacher Training III (Non-Credit)

Prereq: HLTH 1350 or with HLTH 1350.

Class covers the following principles of Yoga: asanas, pranayamas, kriyas, chanting, mantra, meditation and other traditional Yoga practices. Gives equal time to analytical training, teaching and practice techniques.

HLTH 1365 Yoga Teacher Training IV (3 Cr)

CEHW 0365 Yoga Teacher Training IV (Non-Credit)

Prereq: HLTH 1350 or with HLTH 1350
Study advanced asanas, pranayamas, kriyas chanting, mantra, meditation and other traditional Yoga techniques. Covers teaching methodology and ethics.

HLTH 1370 Yoga Teacher Practicum (2 Cr)

CEHW 0370 Yoga Teacher Practicum (Non-Credit)

Prereq: HLTH 1350, HLTH 1355, HLTH 1360, HLTH 1360, HLTH 1365 OR instructor approval.

Complete required practical teaching requirements for the Yoga Alliance. Hold practicum teaching of Yoga classes with fellow students during class and in the community as a volunteer.

NEW FOR SPRING 2014!
Get your 500 Hour Training Here!

500 Hour Pre-requisite: Must have successfully completed a 200-hour Yoga Alliance approved 200 hour course.

HLTH 1375 Yoga Sutras (5 Cr)

CEHW 1375 Yoga Sutras (Non-Credit)

This course offers an in-depth study of Patanjali's Yoga Sutras. It explores various philosophic viewpoints and interpretations of ancient universal truth teachings, along with specific methods to apply the Sutras into everyday living and the practice of Yoga.

HLTH 1380 Yoga for Pathology (5 Cr)

CEHW 0380 Yoga for Pathology (Non-Credit)

This course covers poses and contraindications according to yogic traditions and modern research for different conditions which Yoga may be used to help alleviate or cope with certain pathologies. Instructors will not diagnose clients.

HLTH 1385 Yoga for the Life Cycle (3 Cr)

CEHW 0380 Yoga for the Life Cycle (Non-Credit)

This course offers an in-depth study of the application of Yoga through the life cycle beginning with pregnancy, children, adolescence, adulthood and older adults.

HLTH 1390 Practicum/Lab (3 Cr)

CEHW Practicum/Lab (Non-Credit)

This course offers students opportunities to work on their own personal practice, to teach general populations, and to work one-on-one with Yoga students to help them find a practice suited to best meet their needs and goals.

Elective Options (Must Choose 1):

HLTH 1240 Theory/Practice of Meditation (LW)(2 Cr)

CEHW 240 Theory/Practice of Meditation (Non-Credit)

HLTH 1242 Laughter Yoga (LW)(2 Cr)

CEHW 1242 Laughter Yoga (Non-Credit)

HLTH 1243 Laughter Yoga Instructor (3 Cr)

CEHW 1243 Laughter Yoga Instructor (Non-Credit)

Information Studies

The information sector provides a wealth of opportunities, including careers in libraries, information and knowledge management, and record management. Gain valuable skills in the use of new technologies and automation practices as they apply to organizing, accessing, and retrieving information. All courses are offered in a convenient online format.

COMPETITIVE INTELLIGENCE

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/ci

Competitive Intelligence (CI) encompasses a systematic framework for organizational processes. Generally, a firm will use CI to drive medium to long-term strategies, increase efficiency and effectiveness of operations, as well as for marketing, planning, and decision-making. The outcomes of the ethical and legal CI processes will focus the organization's competitive advantage. Alternative courses of action may suggest options for achieving greater market share, targeting competitors, products, customers, and suppliers. Thus, the firm can develop a plan to increase superiority within the competitive environment. The phrase CI is often synonymous with Business Intelligence (BI), Market Intelligence, and Strategic Intelligence. An organization applies CI-BI to minimize uncertainty and hazards in the business environment and is based upon analytics that forecast future performance from current trends and historical metrics.

Format: Online
Semesters Offered: All
Credit/non-Credit: Credit/Non-Credit (Credit programs require Application to the College)

Program Courses:

ISCI 1000/CECI 0001 Introduction to Competitive Intelligence (3 Cr)

Systematic Competitive Intelligence-Business Intelligence (CI-BI) practices encompass the intelligence life-cycle continuum: to plan, collect, process, analyze, and disseminate information. Most business professionals and knowledge workers are involved to some extent in CI-BI practices. This introductory course examines the principles, roles, responsibilities, and activities associated with CI-BI work, as well as the history of CI-BI. Students will survey a range of functions, models, practices, processes, techniques, technologies, and tools that will be applied to basic, experiential projects.

ISCI 1010/CECI 0010 Intermediate Competitive

Intelligence (3 Cr)
This course examines the models of Competitive Intelligence processes, and intermediate level Competitive Intelligence resources and tools. The connections between competitive intelligence, knowledge management, and information science are examined.

ISCI 1020/CECI 0020 Advanced Competitive Intelligence (3 Cr)
This course examines how organizational development impacts competitive intelligence, and advanced competitive intelligence resources and tools. Process mapping and appreciative inquiry are examined. The connections between competitive intelligence, knowledge management, organizational development, and information science are examined.

CREATIVE PROBLEM SOLVING

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/cps

Creative problem solving is the ability to correctly identify a problem, generate alternative ideas for dealing with a situation, and successfully execute a solution. Learn the steps to take and the resources available for solving problems of all shapes, sizes, and levels of complexity.

Format: Online
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit (Credit programs require application to the College)

Program Courses:

CPS 1000/CECP 0001 Creative Problem Solving - Personal

Solving problems is inherent to the human experience. When the right solution to a problem isn't clear, creative problem solving skills help individuals to correctly identify a problem, provide alternative ways to generate abundant ideas, and execute a plan for success. Learn the steps and associated tools that have been proven to work for problems of all types, sizes and levels of complexity.

CPS 1010/CECP 0010 Creative Problem Solving - Team

Teams operate best when ideas are allowed to flourish. When the right solution to a problem isn't clear, creative problem solving skills help teams to correctly identify a problem, provide alternative ways to generate abundant ideas, and execute a plan for success. Learn the steps and associated tools that have been proven to work for problems of all types and sizes.

GENEALOGY

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/genealogy

The Genealogy certificate program teaches solid research and organizational skills to properly use genealogical records with a focus on International or U.S. genealogical research. Become accredited/certified in genealogical research and develop valuable skills for many career paths. Complete six classes to earn a certificate.

Format: Online
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit
(Credit programs require application to the College)

Program Courses:

GEN 1000/CEGN 0001 Genealogy Computer and Internet Tools (3 Cr)

Introduction to genealogy computer programs and basic genealogy skills used to conduct research and document records with appropriate citations. Students will learn how to use internet tools for genealogy research.

GEN 1010/CEGN 0010 Introduction to Genealogy (3 Cr)

Prereq: GEN 1000

Students explore record groups and repositories which contain ten U.S. sources known to provide evidence linking families from a students' lifetime to 1850, and solve research problems by evaluating evidence. (U.S. and International genealogical research emphasized.)

GEN 1011/CEGN 0011 U.S. Record Groups (3 Cr)

Prereq: GEN 1010 with a C or better. Course can be taken concurrently with GEN 1012 and/or GEN 1016.

Course will provide an in-depth study of sources, records, and methodologies not covered in GEN 1010 that are essential to documenting and verifying family history and genealogies within the U.S. (Focusing on a time period prior to 1850.)

GEN 1012/CEGN 0012 International Record Groups (3 Cr)

Prereq: GEN 1010 with a C or better. Course can be taken concurrently with GEN 1011 and/or GEN 1016.

Students examine and use major international record groups in genealogical research. Paleography, record recognition and usage, research strategies, and usage of the international collections at various repositories will be covered.



GEN 1016/CEGN 0016 Tracing Immigrant Origins (3 Cr)

Prereq: GEN 1011 AND/OR GEN 1012 with a C or better or currently enrolled in GEN 1011 and/or GEN 1012.

Introduction to methodologies and practices to extend family genealogies beyond the U.S. to other countries by finding evidence in unique U.S. records to link localities to international locations.

GEN 1110/CEGN 0110 Genealogy Writing and Publishing (3 Cr)

Prereq: GEN 1016 with a C or better. Course can be taken concurrently with GEN 1150 and/or GEN 1151.

Introduction to standards in genealogical writing, reporting, documentation and presentation of genealogical data. Students will also learn how to publish a family history in various media.

GEN 1150/CEGN 0150 Preparing for U.S. Credentials (3 Cr)

Prereq: GEN 1110 with a C or better or taken concurrently with GEN 1110. Course can be taken currently with GEN 1151. Students finalize an ICAPGen credentialing application, a 4-generation report (with record citations linked to original images and research planners, and an analysis of evidence), plus assemble a research portfolio, and take a practice exam.

GEN 1151/CEGN 0151 Preparing for International Credentials (3 Cr)

Prereq: GEN 1110 with a C or better or taken concurrently with GEN 1110. Course can be taken currently with GEN 1150.

Students finalize international credentialing application, a 4-generation report (with record citations linked to original images and research planners, and an analysis of evidence), plus assemble a research portfolio, and take a practice exam.

KNOWLEDGE MANAGEMENT

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/knowmgt

Knowledge Management helps businesses and individuals learn how to access and organize electronic information. Learn how to use the Information Literacy Cycle (the process by which information is accessed, organized, evaluated, and applied) to meet information needs. Learn basic, intermediate and advanced Web searching techniques. Learn how to use the Technology Literacy Cycle (the technical processes by which we access electronic information) and the Media Literacy Cycle (the various platforms by which information is distributed) to be better able to control the information universe, and your place in it.

Format: Online
Semesters Offered: All
Credit/non-Credit: Credit/Non-Credit (Credit programs require application to the College)Program Courses:

ISKM 1000/CEKM 0001 Introduction to Knowledge Management (3 Cr)

Knowledge Management is the systematic and scientific method by which knowledge is gathered, managed, and used. Topics covered included tacit and explicit knowledge and how it differs from data and information, the strategic uses of Knowledge Management, basic data mining, and the mechanics of knowledge transfer. Career opportunities in Knowledge Management are examined.

ISKM 1010/CEKM 0010 Intermediate Knowledge Management (3 Cr)

Course reviews the Knowledge Management Life Cycle, the functioning of learning organizations, basic semantic technologies, and intermediate level data mining. Significant coverage of metadata and metadata authoring is presented.

ISKM 1020/CEKM 0020 Advanced Knowledge Management (3 Cr)

Topics covered include the global practices and applications of knowledge discovery, capture, and sharing. Basic data warehousing and XML are also examined.

INFORMATION SCIENCE

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/is

Information Science professionals face a constantly changing information environment. Learn how to use the latest information technologies to organize, compare, and retrieve information. Receive training for entry-level jobs in public libraries, school libraries, academic libraries, special libraries, and media centers.

Format: Online
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit
(Credit programs require application to the College)

Program Courses:

ISIS 1010/CEIS 0010 Introduction to Library Services (3 Cr)

Course overviews information organizations. Academic, public, school, digital, virtual, special libraries, and library associations are discussed. Information careers, material organization and types are overviewed.

ISIS 1200/CEIS 0020 Public Information Services (3 Cr)

This course overviews the public service areas of information centers. Reference, ILL, Media, Systems, Government, Documents, Institutional Repository, Circulation and Reserves are discussed.

ISIS 1500/CELS 0050 Library Technical Services (3 Cr)

Course overviews acquisition and processing, cataloging, collection development, maintenance, and preservation are overviewed. The DDC, LC, and automation are examined in depth.

MEDICAL DEVICE TRAINING PROGRAM

Contact:
Jie Gu, MD, PhD (801) -957-6209
Medical Device Program Manager
jie.gu@slcc.edu
http://www.slcccontinuinged.com/MDT

Mi Yon Hodges
Encore Institute Program Manager
(801) 957-5338
miyon.hodges@slcc.edu
http://www.slcccontinuinged.com/MDT
Location: Various
Semesters Offered: All
Credit/Non-Credit: Non-Credit

Program Description:

The medical device industry is a growing sector with well over 100 established companies in the state of Utah. The program includes a series of courses addressing the competencies outlined by the medical device industry nationwide. It covers basic core knowledge and skills required for entry-level positions (see below).

Subsequently, individuals may elect to further their training with specific emphasis on engineering and design; quality and metrology; production; or, regulatory affairs. Specialty certificates will be awarded accordingly. With this interdisciplinary approach, indivdiuals may choose tracks which best fit their career interests and needs. The certificates are interconnected and stackable. Individuals can use them to enhance their bioscience education or employment, as well as transition to new careers. Specialty certificates are currently in development.

Tuition assistance may be available to qualifying individuals through Short Term Intensive Training (STIT), a state funded program. Contact Kasey Schuster for more information (801) 957-5256 or kasey.schuster@slcc.edu.

Career Opportunities:

Individuals who successfully complete the core training may apply for entry-level positions in the medical device industry as technician/assistant in production, process control, equipment maintenance, research and design, engineering, quality assurance, quality control, regulatory affairs, regulatory compliance and product recall.

Core Knowledge and Skills in Medical Device Certificate (96 Hrs)*

Individuals who successfully complete the four core courses (96 hrs) will be awarded the Core Knowledge and Skills Certificate. This will prepare them for a variety of entry-level positions in the medical device industry both locally and nationally and serve as a stepping stone to further their development in specialty areas.

This training is appropriate for anyone interested in switching to a high-tech, higher wage career; industry professionals seeking to enhance their current knowledge and skills for career advancements; or, GED candidates and high school graduates.

*This information is subject to change as the program is currently under development.

CEMD 1210 Intro Medical Device Industry (24 Hrs)

This course provides an overview of the medical device industry, particularly in Utah. It will address topics including diversity of products, size and scope of the industry, current trends, and the product life cycle from conception to market approval and distribution.

CEMD 1220 Fund Measurement/Data Analysis (24 Hrs)

This course focuses on fundamental principles of measurement, performing measurements, data management and analysis related to medical device manufacturing. Mastery of these skills is key to successful careers in the medical device and bioscience industry.

CEMD 1230 Intro to FDA Regulations (24 Hrs)

This course introduces the regulations governing the life science industry with emphasis on those that impact medical device development and manufacturing. A thorough understanding of FDA regulations and an overview of equivalent international regulations will be covered.

CEMD 1240 Intro to Quality Systems (24 Hrs)

This course introduces the concept of a quality system, system structure, and its

relevance to the medical device and life science industry. Individuals will understand proper set-up and operation of a quality system, including the FDA-required Good Manufacturing Practices (GMP).

Notary Public Training

Contact:
Mykel Severson
(801) 957-5407
mykel.severson@slcc.edu
www.slcccontinuinged.com/notary

Location: Miller Campus, online
Semesters Offered: All, every month
Credit/Non-Credit: Non-Credit

Program Courses:

CEMS 0065 Utah Notary Training Live Workshop (4 Hr)

Year-round notary training workshops once per month on a variable schedule. Recommended for all Utah residents. Registration form available at: **www.slcccontinuinged.com/notary.**

Cost: $45

July 12	October 11
August 9	November 8
September 13	December 14

Pharmacy Technician Certificate

Contact:
Jennifer Pollock
(801) 957-5351
jennifer.pollock@slcc.edu
www.slcccontinuinged.com/pharmacy

This program prepares technicians to assist pharmacists in packaging and distribution of medication and technical operations in drug distribution, including inventory control, drug delivery and bulk compounding. The program provides hands-on experience in aseptic techniques in the preparation of sterile solution and use of dosage forms.

Prerequisite requirements for admission to the Pharmacy Technician Program:

- Complete the College admissions
- MATH 0920 or 0950 with a C or better OR a Accuplacer placement score of MATH 0990. Score is good for one year.
- MA 1100: Medical Terminology
- Completed background check
- Completed pharmacy technician program application

The program requires an externship. Therefore, students will be required to submit a current background check, drug screen, two-step TB test results and immunization records to the program coordinator. Cost for the background check, TB test, drug screen and immunizations are the student's responsibility. This program must be completed within one year per policy by the State of Utah Division of Occupational & Professional Licensing (DOPL).

Location: Jordan Campus
Semesters Offered: All, new cohorts begin each spring and fall semesters
Credit/Non-Credit: Credit
(Credit programs require application to the College)

Program Courses:

SEMESTER ONE

PHAR 1010 Intro to Pharmacy Practice (2 Cr)

This course analyzes the fundamentals of pharmacies and health care institutions in the U.S. today. Explore pharmaceutical and medical terms, career opportunities, safety considerations, dosage forms and quality control. Review federal and state pharmacy laws and regulations.

PHAR 1020 Intro to Pharmacology for Pharmacy Technicians (2 Cr)

This course discusses the nature of drugs, drug absorption and patient variables that affect drug therapy. Discusses drug classification and nomenclature.

PHAR 1040 Calculations & Law (2 Cr)

Covers pharmacy state and federal regulatory agencies and accountability for the technicians. Emphasizes pharmacy math, dosage calculations and conversions.

SEMESTER TWO

PHAR 1030 Compounding/Sterile Products (2 Cr)

This course reviews packaging, preservation and storage of compounded drugs. Examines coated tablets, solutions and suspensions. Explains sterile procedures with vials and IV bottles and bags.

PHAR 1050 Pharmacy Computers (2 Cr)

This course stresses practical applications of the concepts learned in PHAR 1010. Provides hands-on experience with a computerized system for dispensing prescriptions and preparing third party pay documents.

PHAR 1065 Pharmacology III/ Over the Counter Drugs (2 Cr)

This course discusses over-the-counter medications/ products with emphasis on knowledge required for making appropriate recommendations for selection and use of these products by consumers.

SEMESTER THREE

PHAR 1070 Fieldwork Preparation (4 Cr)

This course analyzes distribution procedures to patients in the hospital and patient medication profiles. The course reviews community pharmacies and specific technician duties. Includes practical on-site experiences in hospital and community settings.

PHAR 1075 Pharmacy Adjudication (1 Cr)

This course acquaints students with knowledge of adjudication processes used in a pharmacy setting. Covers rejections and third party billing requirements will be covered.

The following is a NON-CREDIT ed2go online course. This class is not required. For more information about ed2go classes see page 33.

CETG 0453 Explore a Career as a Pharmacy Technician (Non-Credit) - $99

Explore a Career as a Pharmacy Technician in this short-term (6 week) Internet-based course that can help students decide if this profession is a good fit. Discover the steps it takes to become a Certified Pharmacy Technician (CPhT) and master the skills that will prepare students for an entry-level position as a pharmacy tech or clerk. This course is designed to provide an introduction to the profession of pharmacy technician, and will not supply enough information to sit for the national exam. Students may enroll in the Pharmacy Technician Certificate program to prepare for the exam.

Questions? Call **801-957-5407** or visit **www.ed2go.com/saltlakecc**.

Photography

Contact:
Stephanie Roberts
(801) 957-5303
stephanie.roberts@slcc.edu
www.slcccontinuinged.com/photo

Continuing Education at the College has classes to meet every photographers' needs. Improve skills and learn about lighting, subject matter, composition, camera functions and art principles.

Location: Miller Campus
Semesters Offered: All
Credit/Non-Credit: Non-Credit

Program Courses:

CEEI 0100 SLR Digital Photography Basics (10 Hr) - $75

Learn the basics of SLR Photography: Modes (auto, program, manual); Exposure (Aperture, Shutter Speed, Manual); Depth of Field; Advanced Settings (histograms, exposure compensation, ISO); Focus (auto, manual, modes); Metering (evaluative, one shot, partial, matrix, center-weighted); White balance; Format (Jpeg, Raw, Tiff). Bring a SLR digital camera and instruction manual to class. One Saturday session required for off-campus shooting. Class time will be spent reviewing student work.

CEEI 0110 SLR Digital Photography: Beyond the Basics (Varies) - $75

Go beyond the basics in this hands on class. Learn about flash, motion, landscape, night, and home studio lighting photography. Students will participate in five evening workshops to shoot with a professional photographer and receive feedback on their work.

ONLINE PHOTOGRAPHY COURSES (NON-CREDIT)
$95 each. Register at www.ed2go.com/saltlakecc

CETG 0192 Discover Digital Photography

An informative introduction to digital photography.

CETG 0244 Secrets of Better Photography

Explore strategies and learn a variety of tricks to create excellent photographs in all types of situations.

CETG 0283 Photographing People With Your Digital Camera

Find out how to take beautiful pictures of adults, children and babies.

CETG 0318, 0643 Intro & Intermediate Photoshop CS4

Take Photoshop CS4 skills to the next level of creativity and productivity.

CETG 0390 Travel Photography

Learn the tricks and techniques digital photographers need to capture scenes from around the world and bring them home.

CETG 0561, 0661 Photoshop Elements 9, 10

Master the most advanced features of Photoshop Elements for Windows and improves photo editing skills.

CETG 0518, 0618 Intro to Photoshop CS5 and CS6

Learn how to use Adobe Photoshop, the world's best graphics program, to edit and process photos and create original images.

CETG 0638 Photographing Nature With Your Digital Camera

Learn how to use a digital camera to take stunning nature photos, including landscapes, flowers, animals and macro shots.

Social Media for Business

Social Media for Business CECW0620 (12 Hr)
Tuition: $299

Recommended: familiar with basic computer skills
Social Media marketing is essential for any small business. It's relatively low cost keeps it affordable, but using it properly takes preparation, planning and essential basic knowledge. This workshop is designed for small to medium businesses that are new to social media marketing, or are struggling with implementation. We will discuss the research, planning and overall social media strategy necessary to help you get started. In a hands-on environment you will begin implementing and using the tools described below.

Introduction to Facebook Pages for Business
Learn to set up a basic company page, and how to post and schedule posts. The class will also offer techniques and ideas to drive engagement.

Pinterest for Business | Blogging for Business
Blogging is an essential part of today's content marketing world. This session will talk about blogging basics, and how to develop and create consistent posts. Pinterest business use is also growing rapidly, and we'll cover fundamentals so you can decide if it's a fit for your business.

Twitter Basics for Business
Twitter usage for business is growing, in this class, we will go through the account setup process, and discuss the common terminology in Twitter and the basics of getting started, strategies to follow people and as much as we can accomplish during the session.

Fundamentals of LinkedIn
Learn the basics of optimizing Linked In and setting up a Company page so you can use this powerful professional network to enhance your networking and business development.

Basics of Email Marketing
Email marketing is alive and well, and is now a cornerstone for content marketing and integration with social media strategies. Using a free service, we'll set up an account and learn tips for list segmentation and creating an email to send to a list.

Facebook Business Pages Beyond the Basics
This module will look into the more advanced features of Facebook, such as Insights, Apps, and methods of Facebook advertising.

Transition to Teaching (Alternative Routes to Licensure)

Contact:
Ronald Stanfield, Ed.D.
(801) 957-5423
ron.stanfield@slcc.edu
www.slcccontinuinged.com/ARL

UTAH STATE OFFICE OF EDUCATION LICENSURE PROGRAMS

The Utah State Office of Education (USOE) and the College offer several paths to a Utah Professional Educator License. Students must have approval from the USOE and have a professional development plan before they can register for classes in the Transition to Teaching program. More detailed information is available on the USOE website, at **www.schools.utah.gov**.

TRANSITION TO TEACHING
This is a program for individuals with a Bachelor's degree in a subject area taught in Utah schools and who are currently teaching in a public school under contract, but have not completed a teacher preparation program.

For more information, visit *www.schools.utah.gov/cert/Alternative-Routes-to-Licensure.aspx.*

CAREER AND TECHNICAL EDUCATION ALTERNATIVE PREPARATION (CTE/AP)

The Utah State Office of Education oversees an alternative licensure route for the experienced professional. With a combination of work experience and education, an individual may qualify for this licensure route.

For additional information, please review the information posted on the USOE website:
http://www.schools.utah.gov/cte/licensing

TROOPS TO TEACHERS (TTT)

Eligible military personnel can enroll in this program to begin new careers as public school teachers.

For more information, visit:
www.schools.utah.gov/cert/Alternative-Routes-to-Licensure/Troops-to-Teachers.aspx

Location: Courses are delivered via live teacher guided webinars and are available to students throughout the state.
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit
(Credit Programs require application to the College)

Program Courses:

*CEAL 0100 Transition to Teaching Orientation Course (1 Cr)

Reviews the requirements for teacher licensure. Orientation for students with a Bachelor's degree in a subject area taught in Utah Schools who want to become a teacher.

EDU 2800 Instruction, Technology, Assessment and Planning (3 Cr)

Prereq: ARL candidates only.

Learn a variety of strategies to encourage students' critical thinking development, problem solving and performance skills.

*EDU 2010 Introduction to Special Education (3 Cr)

Covers the learning and social characteristics of young people with exceptionalities. Become familiar with public policies and the services available to students with exceptionalities.

*EDU 2820 Creating A Learning Environment (3 Cr)

Prereq: ARL candidates only.

Study how children learn and develop. Gain skills to provide learning opportunities that support student intellectual, social and personal development.

*EDU 2840 Literacy Strategies (3 Cr)

Prereq: ARL candidates only.

Examines the fundamentals of student reading comprehension and the decisions teachers make concerning methods, materials and procedures based on those fundamentals.

*EDU 2860 Survey of Learning and Teaching Diverse Populations (3 Cr)

Prereq: ARL candidates only.

Explore the rationale, concepts, theory and practice of teaching populations from culturally, linguistically and socioeconomically diverse backgrounds in pluralistic schools and societies.

*FHS 2645 Early Childhood Integrated Curriculum (3 Cr)

This class will focus on giving teachers in the Transition to Teaching program in early child development to teach the current Utah State Curriculum (K-3). The class will cover the philosophy of primary curriculum: how to develop, deliver and assess curriculum, how to work with parents and families, how to develop literacy, mathematics, science, social studies and the arts in a developmentally appropriate manner.

***Live Teacher Guided Webinars**
Adobe Connect is a premier web conferencing technology used for eLearning at the College. Students participating in this webinar should be familiar with Adobe Connect prior to class.

The "Student Adobe Connect Manual" is available on the Transition to Teaching website: www.slcccontinuinged.com/ARL_webinar

However, first time Adobe Connect users may want to attend the class in person on the first day at the College's Miller Campus to learn how to successfully enter the webinar.

Travel Planner Certificate

Contact:
Mi Yon Hodges
(801) 957-5338
miyon.hodges@slcc.edu
www.slcccontinuinged.com/travel

This is a well-rounded career program to prepare students for the travel and tourism industry. It covers travel agencies, cruise lines, transportation companies, resorts and hotels, tourism companies and corporate travel departments. The program consists of 14 Internet-based courses.

Location: All online
Semesters Offered: All
Program Courses:

Please see Travel Planner Certificate in the Online Courses section, page 50 for complete listing.

Youth Summer Reading Skills Program

Contact:
Stephanie Roberts
(801) 957-5303
stephanie.roberts@slcc.edu
www.slcccontinuinged.com/youthread

This program is for children and teens entering grades K-12 to develop and improve reading skills and encourage a lifelong love of learning. Students are taught essential phonics and comprehension skills that are required to become a fluent reader.

Location: Taylorsville Redwood, Miller and Jordan campuses
Semesters Offered: Summer
Credit/Non-Credit: Non-Credit

Program Courses:

Reading Development Programs for 4 Year Olds Through Entering 2nd Graders

Develop the essential reading skills and habits that lead to fluent reading, strong comprehension and a love of books and reading. Get individualized guidance and materials to support a child's reading practice and skill development over the next year.

Reading Development Programs for Students Entering 3rd Through 5th Grades

Develop the reading comprehension and fluency required to read longer, more complex books with ease and absorption. Create a foundation for a lifelong love of reading and for academic success. Get individualized guidance and the materials to support a child's reading practice and skill development throughout the next year.

Reading and Study Skills Programs for Middle School and High School

Double reading speed, improve comprehension and learn a step-by-step approach to reading, studying and taking notes for fiction and non-fiction. Develop the ability to become fully absorbed in books, which makes reading enjoyable and supports the habit of reading for pleasure.

Online Courses

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/architect

Designed for professionals who need 16 hours of Continuing Education credits to maintain their license.

Format: Online, CD
Semesters Offered: Available Anytime
Credit/Non-Credit: Non-Credit

Program Courses: Please see contractor continuing education in the continuing professional development section, page 32 for complete listing

Contractor Continuing Education

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/contractor

Designed for professionals who need six hours of Continuing Education (Professional Development and Core Curriculum) to maintain their Utah State Contractor's License. The College's Contractor Continuing Education program offers classes that meet the Division of Occupational & Professional Licensing (DOPL) requirements.

Format: Online, CD
Semesters Offered: Available Anytime
Credit/Non-Credit: Non-Credit

Program Courses:

Please see Contractor Continuing Education in the Continuing Professional Development section, page 10 for complete listing.

Electrical Continuing Education

Contact:
Kathy Jonsson
801-957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/electrical

Courses are designed for journeyman electricians who need 16 hours of Continuing Education credits to maintain their Utah State Electrician's License and meet the Division of Occupational & Professional Licensing (DOPL) requirements. These courses fulfill Professional or Core requirements. Please view the website for details.

Location: Varies
Format: Lecture
Semesters Offered: Varies
Credit/non-Credit: Non-Credit

Please see electrical continuing education in the continuing professional development section, page 32 for complete listing.

Engineering Continuing Education

Contact:
Kathy Jonsson
801-957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/engineering

Courses are designed for professionals who need 24 hours of Continuing Education credits to maintain their Utah State Professional Engineering license. The College's Professional

Engineering License Renewal program offers classes that meet the Division of Occupational & Professional Licensing (DOPL) requirements.

Format: Online, CD
Semesters Offered: Available Anytime
Credit/non-Credit: Non-Credit
Dates: Jan 1 – Jun 30
For full course listings visit:
www.slcccontinuinged.com/engineering

Please see Engineering continuing education in the continuing professional development section, page 33 for complete listing.

Funeral Service Director Continuing Education

Contact:
Kathy Jonsson
801-957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/funeral

Designed for professionals who need 20 hours of Continuing Education to maintain their Utah State Funeral Service Director License. The College offers classes that meet the Division of Occupational & Professional Licensing (DOPL) requirements.

Format: Online, CD
Semesters Offered: Available Anytime

Credit/non-Credit: Non-Credit
Dates: Jan 1 – Jun 30

For full course listings, visit: **www.slcccontinuinged.com/funeral**

Please see Funeral Service Director continuing education in the continuing professional development section, page 33 for complete listing.

Engineering Continuing Education

Contact:
Kathy Jonsson
801-957-5383
kathy.jonsson@slcc.edu www.slcccontinuinged.com/engineering

Courses are designed for professionals who need 24 hours of Continuing Education credits to maintain their Utah State Professional Engineering license. The College's Professional Engineering License Renewal program offers classes that meet the Division of Occupational & Professional Licensing (DOPL) requirements.

Format: Online, CD
Semesters Offered: Available Anytime
Credit/non-Credit: Non-Credit
Dates: Jan 1 – Jun 30
For full course listings visit:
www.slcccontinuinged.com/engineering

Basic Tax Preparation Training

Online; self-paced; no meeting times

Contact:
Mykel Severson
(801) 957-5407
mykel.severson@slcc.edu

Study tax law and tax preparation from the convenience of a home or office with online courses offered by the College in partnership with the Pacific Northwest Tax School. As required by the IRS, competency testing of all unenrolled tax preparers (those who are not CPAs, attorneys or enrolled agents) must be completed by January 1, 2014. The interactive structure of our self-paced online course format combines the best elements of a live class with the convenience of working your own pace.

Format: Online
Semesters Offered: Available Anytime
Credit/Non-Credit: Non-Credit

Program Courses:

CEMS 0501 Basic Tax Preparation Training Part 1 - $250

CEMS 0502 Basic Tax Preparation Training Part 2 - $250

Course includes:

- Video-recording of live lectures
- Access to manuals, tests and answers keys using the online Learning Management System (LMS)
- Q & A forum to post questions
- Certificate of Completion available

Enroll:

Send full legal name with middle name or initial, address, phone number, and birthday to:

1. Mykel.severson@slcc.edu
2. Subject line: "Basic Tax Preparation"
3. Indicate Part I, Part II, or both.

Ms. Severson will contact you with payment options and other enrollment instructions.

If you have any questions, call Mykel Severson at (801) 957-5407

Education to Go (ed2go)-Workforce Skills & Personal Interest Online Courses

Internet-based, self-paced; NO meeting times
Non Credit (2.4 Ceu)

Contact:
Mykel Severson
801-957-5407
mykel.severson@slcc.edu
View courses and enroll at www.ed2go.com/saltlakecc

The College offers non-credit, **Internet-based courses** through our career training partner, Education to

Go (ed2go). ed2go's instructor-facilitated online courses are informative, convenient, highly interactive and **inexpensive** (most are $99). Instructors create supportive learning communities and are available to help through an interactive discussion area that is open 24/7. There are no set meeting times, so work on it at your own pace! **SLCC's admission fee is waived** for students who enroll in ed2go course. Online payment available at the time of enrollment.

The courses run for a total of maximum of 8 weeks. **Students do not have to be present when lessons are released.** Courses are project-oriented and include lessons, quizzes, hands-on assignments, discussion areas and supplementary links. The final exam is released the same day as the last lesson. Once the final exam has been released, students have two weeks to complete all course work, including the final exam. A ten day extension is available upon request. Students can complete these courses entirely from their home or office. Certificates of Completion are available upon on request.

Start Dates for 2014:

January 15	July 16
February 19	August 20
March 19	September 17
April 16	October 15
May 21	November 12
June 18	December 10

Students may enroll up to two weeks AFTER the session start date.

Requirements:
All courses require Internet access, e-mail and Internet Explorer, Firefox or Chrome web browsers. Some courses may have additional requirements. Visit the Online Instruction Center for more information at www.ed2go.com/saltlakecc

Location: All, online

Semesters Offered: All, new session every month, year-round

Credit / non Credit: Non-Credit
Classes do not qualify for financial aid.

ACCOUNTING

*$99 each. Enroll at www.ed2go.com/saltlakecc**

CETG 0250, 0350 Accounting Fundamentals I & II

Covers the basics of double-entry bookkeeping and financial reporting.

CETG 0301 Introduction to Crystal Reports

Learn to convert raw database or accounting information into impressive, meaningful reports.

CETG 0492 Introduction to Crystal Reports XI, 2008/2011

Learn how to use Crystal Reports to create attractive business documents that are easy to read and understand.

CETG 0496, 0539 Introduction to QuickBooks 2012 & 2013

Learn how to quickly and efficiently gain control over the financial aspects of business.

BASIC COMPUTER LITERACY

*$99 each. Enroll at www.ed2go.com/saltlakecc**

CETG 0187 Keyboarding

Uses FasType for Windows to learn the basic skills of touch typing.

CETG 0537, 0637 Introduction to Windows 7 & Windows 8

Learn how work with text, pictures, audio and video using Windows 7 or Windows 8.

CETG 0365 Introduction to Linux

Learn to use the Linux operating system.

CETG 0225 Computer Skills for the Workplace

Get working knowledge of the computer skills needed for today's job market.

CETG 0342 Introduction to PC Security
Learn PC protection and security.

BUSINESS & MANAGEMENT

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led

$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0010 Fundamentals of Supervision & Management

Learn skills to motivate and delegate, solve problems and resolve conflicts.

CETG 0014 Mastery of Business Fundamentals

Get practical experience in strategic planning, management and finance without enrolling in an MBA program.

CETG 0035 Introduction to Business Analysis

Improve decision-making skills at work.

CETG 0019Six Sigma: Total Quality Fundamentals

Create strong foundation in total quality management.

CETG 0023 Managing Customer Service

Learn to identify and meet customer needs.

CETG 0012 Purchasing Fundamentals

Improve mastery of purchasing fundamentals.

CETG 0033 Distribution and Logistics Management

Improve a company's ability to deliver on time and on budget, while increasing customer satisfaction.

CETG 0017 Project Management Fundamentals

Provides necessary skills for project management.

CETG 0038 High-Speed Project Management

Learn to deal with the realities of quickly managing projects.

CETG 0527 Introduction to Microsoft Project 2010

Learn to effectively plan, implement and control projects using Microsoft Project 2010.

CETG 0034 Understanding the Human Resources Function

Learn to handle human resource functions for the best results.

CETG 0426 HIPPA Compliance

Learn how to comply with the duties, rights, and responsibilities of HIPAA, ARRA and HITECH.

CETG 0015 Employment Law Fundamentals

Learn basics of employment law to legally hire, evaluate and manage employees.

CETG 0013 Administrative Assistant Fundamentals

Prepare for job opportunities in health care, legal services and other industries.

CETG 0251 Effective Business Writing

This course will help participants close the gaps in their business writing and reach their full potential.

CETG 0171 Achieving Success with Difficult People

Learn how to have more successful relationships with difficult bosses, co-workers, students, neighbors, or relatives.

CAREER EXPLORATION

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0428 Explore a Career as an Administrative Medical Assistant

Explore the job of an administrative medical assistant (AMA) in a doctor's office.

CETG 0439 Explore a Career in Medical Coding

Learn the basics of medical coding to prepare to work in any medical setting.

CETG 0135 Learn Medical Transcription

Learn how to transcribe the medical reports most often used in health care today, and discover how to get started and advance as a medical transcriptionist.

CETG 0139 Medical Terminology: Word Association Approach

Learn medical terminology in a memorable, fun way.

CETG 0449 Spanish for Medical Professionals

Learn medical Spanish in this fun and simple course that will give participants the basic tools needed to bridge the communication gap.

CETG 0479 Medical Math

Master the math skills needed to succeed in the medical field.

CETG 0454 Explore a Career as a Dental Office Assistant

Master basic dental anatomy and terminology and learn how to run a dental professionals' office.

CETG 0453 Explore a Career as a Pharmacy Technician

Prepares students for an entry-level position as a pharmacy tech or clerk and creates foundation to become a Certified Pharmacy Technician.

CETG 0273 Explore a Career as a Veterinary Assistant

Prepare to work in a veterinary office or hospital.

CETG 0375 Become a Veterinary Assistant II: Canine Reproduction

Manage the entire canine breeding cycle, from assessing the health of parents to puppy care.

CETG 0475 Become a Veterinary Assistant III: Practical Skills

Get practical skills to become a veterinary assistant or educated pet owner.

CETG 0398 Explore a Career as an Optical Assistant Learn what it takes to become an optical assistant.

CETG 0307 Real Estate Investing

Build and protect wealth by investing in real estate.

CETG 0277 Get Paid to Travel (Professional To ur Guide)

Learn everything needed to be successful and acquire a position as a professional tour director, tour guide, or cruise host.

CETG 0485 Explore a Career in Interior Design

Learn how to transform any room into a beautiful and functional space.

CETG 0508 Explore a Career as a Paralegal

Discover what paralegals do and find out important aspects of the job in order to begin a paralegal career.

CETG 0228 Fundamentals of Technical Writing

Learn skills for success in technical writing.

CERTIFICATION PREP

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led

$119 each. Enroll at www.ed2go.com/saltlakecc

CETG 0021, 0022 PMP Certification Prep 1 & 2

Become prepared for the PMP certification exam.

CETG 0132, 0133 & 0134 Beginner, Intermediate, and Advanced CompTIA® A+ Certification Prep

Prepare for the CompTIA® A+ certification exams.

CETG 0355 CompTIA Security+ Certification Prep

Master the terms and concepts needed to pass the CompTIA® Security+ exam and earn the Security+ certificate.

CETG 0213 CompTIA® Network+ Certification Prep

Prepare for the CompTIA® Network+ Exam and a career as a network tech.

CHILDREN, PARENT & FAMILIES

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led

$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0129 Homeschool with Success

Discover how to provide homeschooling for children in a way that ensures they get what they need both academically and socially.

CETG 0193 Guiding the Kids on the Internet

Gain the confidence and experience to help children discover all the Internet has to offer.

CETG 0306 Enhancing Language Development in Children

Enrich the lives of children by learning fun and natural ways to help them become proficient speakers and thinkers.

CETG 0376 Working Successfully with Learning Disabled Students

Learn how to successfully meet the diverse needs of students with learning disabilities in a classroom.

CETG 0183 Understanding Adolescents

Uncover the secrets of the adolescent mind and gain valuable information on how they feel, how their identities develop, and how to best meet their needs.

CETG 0488 Assisting Aging Parents

Be prepared to handle the challenges that adult children and their parents face in the aging years, while also learning how to cherish the transition.

CETG 0517 Navigating Divorce

Learn how to move through the divorce process step by step, gain a sense of control and stability, and emerge on the other side as a healthier and happier person.

CETG 0188 Lose Weight & Keep it Off!

Discover how to establish a healthy approach to successful weight loss and weight maintenance for a lifetime.

CETG 0447 Luscious, Low-Fat, Lightning Quick Meals

Join a registered dietitian and discover how easy it can be to prepare meals that are both delicious and nutritious!

CETG 0502 Start Your Own Edible Garden

Learn how to grow delicious, nutritious fruit and vegetables in a backyard.

CETG 0309 Handling Medical Emergencies

Every second counts during a medical emergency. Learn how to respond if someone needs medical attention.

CREATIVE WRITING & PUBLISHING

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led

$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0158 Writing Essentials

Master the essentials of writing to provide a foundation for success.

CETG 0173 Grammar Refresher

Bolster confidence in ability to produce clean, grammatically correct documents and speeches.

CETG 0354 Beginning Writer's Workshop

Improve writing skills with an introduction to writing creatively.

CETG 0142, 0284 Writeriffic Creativity Training for Writers

Banish writer's block forever with tricks from published writers.

CETG 0396 A Writer's Guide to Descriptive Settings

Develop an eye for detail to improve writing with vivid descriptions and believable characters.

CETG 0230 Write Fiction Like a Pro

Learn how professional writers use story outlines to structure any type of story.

CETG 0385 Advanced Fiction Writing

Explore advanced fiction writing techniques.

CETG 0384 Mystery Writing

Use vivid examples from bestselling mystery novels to teach techniques needed to be a successful author.

CETG 0353 Writing for Children

Find out how to reach children through books.

CETG 0499 Writing Young Adult Fiction

Develop a young adult novel and learn how to break into one of today's hottest publishing markets.

CETG 0131 Travel Writing

Learn how to profit by learning to write and sell travel articles and books.

CETG 0141 The Craft of Magazine Writing

Obtain the skills to get published.

CETG 0337 Introduction to Journaling

Find out how journaling can help explore dreams, values and beliefs, survive unwanted change; succeed in a career, and express creativity.

CETG 0127 Write Your Life Story

Learn how to make an inspirational autobiography.

CETG 0303 Research Methods for Writers

Learn the most efficient and effective methods to conduct research for any writing project.

CETG 0229 The Keys to Effective Editing

Get the fundamentals of top-notch editing for fiction and nonfiction.

CETG 0231 Intro to Internet Writing Markets

Learn how to make money writing on the Internet.

CETG 0290 Beginner's Guide to Getting Published

Establish the credibility to get work published.

CETG 0269 Write & Publish Your Non-fiction Book

Learn to write, edit and publish non-fiction books of all types.

CETG 0228 Fundamentals of Technical Writing

Learn how to succeed in technical writing.

CETG 0484 Writing & Selling Self Help Books

Learn how to write a persuasive proposal for agents and publishers and use storytelling techniques to make a message compelling.

DATABASE MANAGEMENT

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0145 Introduction to Database Management

Guides students through a structured approach to database design and development.

CETG 0208, 0308 Oracle (Intro & Intermediate)

Learn to use the Oracle database management system to plan, organize and manage data.

CETG 0146 Introduction to SQL

Gain a solid working knowledge of the most powerful and widely used database programming language.

CETG 0301 Introduction to Crystal Reports

Learn to convert raw database or accounting information into impressive and meaningful reports.

CETG 0492 Intro to Crystal Reports XI 2008 or 2011

Learn how to use Crystal Reports to create attractive business documents that are easy to read and understand.

CETG 0425, 0525 Introduction to Microsoft Access 2007 and 2010

Find out how to store, locate, print and automate access to all types of information.

DIGITAL PHOTOGRAPHY

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0192 Discover Digital Photography

An informative introduction to digital photography.

CETG 0244 Secrets of Better Photography

Explore strategies and learn a variety of tricks to create excellent photographs in all types of situations.

CETG 0283 Photographing People With Your Digital Camera

Find out how to take beautiful pictures of adults, children and babies.

CETG 0638 Photographing Nature With You Digital Camera

Learn how to use a digital camera to take stunning nature photos, including landscapes, flowers, animals and macro shots.

CETG 0390 Travel Photography

Learn the tricks and techniques digital photographers need to capture scenes from around the world and bring them home.

CETG 0459 & 0559 Photoshop CS5 or CS6 for the Digital Photographer

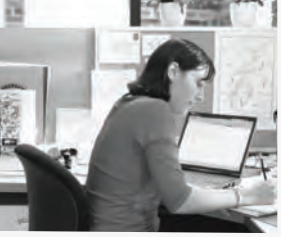
Learn how to use Adobe's Photoshop CS5 or CS6 to edit and enhance photographic images.

CETG 0661 & 0761 Photoshop Elements 10 & 11

Master the most advanced features of Photoshop Elements for Windows and improve photo editing skills.

CETG 0518 & 0618 Intro to Photoshop CS5 & CS6 (Intermediate available upon request)

Take Photoshop CS5 or CS6 skills to the next level of creativity and productivity.



Online Course | ed2go Online Courses |

GRANT WRITING/NONPROFIT MANAGEMENT

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0154 A to Z Grant Writing

Reveals how to research and develop relation-ships with potential funding sources, organize grant writing campaigns and prepare proposals.

CETG 0382 Get Grants!

Learn how to develop successful, fundable grants from experts in the field.

CETG 0182 Writing Effective Grant Proposals

Learn how to prepare grant proposals that get results
for a favorite organization or charity.

CETG 0282 Advanced Grant Proposal Writing

Reveals the criteria funders use to determine whether a grant proposal gets funded or rejected.

CETG 0155 Becoming a Grant Writing Consultant

Increase income while working from home by starting a grant writing consulting business.

CETG 0026 Starting a Nonprofit

An experienced veteran in the nonprofit industry leads students through the process of taking a nonprofit business from vision to reality.

CETG 0027 Nonprofit Fundraising Essentials

Learn the basics of fundraising for nonprofit organizations, from annual and special fund drives to more advanced projects.

CETG 0024 Introduction to Nonprofit Management

Develop the skills and strategies needed to become an integral part of one of the fastest growing service sectors.

CETG 0025 Marketing Your Nonprofit

Learn how to compete more effectively for members, media attention, donors, clients and volunteers.

GRAPHICS & MULTIMEDIA DESIGN

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0517 & 0617 Intro to Adobe Flash CS5 & CS6

Learn how to use Adobe Flash software to create engaging websites, Flash movies, animation and interactive applications.

CETG 0661 & 0761 Photoshop Elements 10 & 11

Bring out the best in digital photos with Adobe Photoshop Elements.

CETG 0609 & 0709 InDesign CS5 & CS6

Learn how to use Adobe InDesign software to design and produce professional quality letterhead, brochures, newsletters and business cards.

CETG 0518 & 0618 Intro to Photoshop CS5 & CS6

Learn how to us Adobe Photoshop CS5 or CS6, the world's best graphics program, to edit and process photos and create original images.

CETG 0614 & 0714 Introduction to Adobe Illustrator CS5 & CS6

Master the fundamentals of Adobe Illustrator CS4 or CS5, learn to create spectacular vector graphic images and add amazing effects.

CETG 0270 Drawing for the Absolute Beginner

Create a solid foundation in drawing.

HEALTH & WELLNESS

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each.
Enroll at www.ed2go.com/saltlakecc

CETG 0188 Lose Weight & Keep it Off!

Reveal how to establish a healthy approach to successful weight-loss and weight-maintenance for a lifetime.

CETG 0309 Handling Medical Emergencies

Know how to respond if someone needs help.

CETG 0140 Introduction to Natural Health and Healing

Promote wellness, balance and health in all aspects of daily life.

CETG 0447 Luscious, Low-Fat, Lightning Quick Meals

Reveal how easy it is to prepare delicious, nutritious meals.

CETG 0433 Going Green at Home

Step into a green lifestyle with simple, cost-effective ways to make a home environmentally friendly.

LANGUAGES

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0152, 0352, 0452 Speed Spanish I, II, III

Learn easy ways to put Spanish words together into sentences.

CETG 0153 Grammar for ESL

This course teaches the principles of English grammar. For English as a second language learners.

CETG 0399 Introduction to Teaching ESL/EFL

Learn to be an effective English language teacher.

CETG 0470 Easy English 1

Learn basic English skills needed for real-life activities including shopping, job-hunting, and handling medical emergencies.

CETG 0471 Easy English 2

Reviews basic English skills and builds more intermediate-level English skills for real-life activities.

CETG 0482 Easy English 3

Build on the English skills mastered in Easy English 2 and learn to talk about real-life situations.

CETG 0377 Instant Italian

Learn Italian from home.

CETG 0278 Beginning Conversational French

Learn common words and phrases for both leisure and business.

CETG 0411 Beginning Conversational Japanese

This course makes it easy and enjoyable for beginners to master the essentials of Japanese.

MICROSOFT COMPUTER APPLICATIONS
6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0420, 0421, 0520, 0521 Beginning & Intermediate Microsoft Word 2007 & 2010

Master how to create and modify documents with the world's most popular word processor.

CETG 0425, 0480, 0525 Beginning & Intermediate Microsoft Access 2007 & 2010

Store, locate, print and automate access to all types of information.

CETG 0423, 0424, 0430, 0523, 0524, 0530 Beginning, Intermediate & Advanced Microsoft Excel 2007 & 2010

Set up fully formatted worksheets quickly and efficiently.

0462 & 0562 Intro to Microsoft PowerPoint 2007 & 2010

Build impressive slide presentations filled with text, images, video, audio and charts.

CETG 0435, 0535 Introduction to Microsoft Publisher 2007 & 2010

Create brochures, newsletters and websites.

CETG 0401, 0501 Microsoft Outlook 2007 & 2010

Learn to communicate and manage information better and faster.

CETG 0427, 0527 Microsoft Project 2007 & 2010

Learn to use the ultimate project planning and control tool to its fullest.

PC SECURITY & NETWORKING

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
*$99 each. Enroll at www.ed2go.com/saltlakecc**

CETG 0101 Introduction to PC Troubleshooting

Learn to decipher and solve almost any PC problem.

CETG 0220, 0242 Beginning & Intermediate Networking

Learn networking basics in terms that you can easily understand.

CETG 0220, 0242 Beginning & Intermediate Networking

Get the fundamentals of networking.

CETG 0334 Wireless Networking

Learn how to plan, deploy and connect to wireless networks.

CETG 0342 & 0442 PC Security (Intro & Advanced)

Reveals the fundamentals of PC and network security.

PERSONAL ENRICHMENT

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0173 Grammar Refresher

Create confidence in the ability to produce clean, grammatically correct documents and speeches.

CETG 0274 Math Refresher

Practical exercises and informative lessons will refresh a student's math skills and be put to immediate use.

CETG 0536 Biology Refresher

This course will help students learn (or relearn) the structure and function of the human body at the cellular level.

CETG 0537 Introduction to Human Anatomy & Physiology (Human Anatomy II also available)

Learn about the marvelous complexity of the human body to prepare for a job in the health care industry! Non-credit; non-transferable.

CETG 0174 Twelve Steps to a Successful Job Search

Find out how to get a job quickly and easily, in any economy.

CETG 0176 Individual Excellence

Master 12 career-enhancing skills including goal setting, time management, personal organization and creativity.

CETG 0238 Leadership

Gain the respect and admiration of others, exert more control over life and enjoy professional and personal success.

CETG 0225 Computer Skills for the Workplace

Get a working knowledge of the computer skills needed to succeed in today's job market.

CETG 0299 Merrill Ream Speed Reading

Save time by reading faster with better comprehension.

CETG 0172 Get Assertive!

Stop intimidation and poor treatment.

CETG 0171 Achieving Success with Difficult People

Create more successful relationships with difficult bosses, co-workers, students, neighbors and relatives.

CETG 0168 Keys to Effective Communication

Learn to build rapport, trust, warmth and respect through conversation.

CETG 0309 Handling Medical Emergencies

Learn how to respond if someone needs help.

CETG 0349 Music Made Easy

Get the fundamentals of music theory. Covers reading, writing and playing simple music.

CETG 0270 Drawing for the Absolute Beginner

Get a solid foundation in drawing.

CETG 0204 Genealogy Basics

Learn where to look, who to contact and how to use research tools to begin exploring genealogy.

CETG 0316 Interpersonal Communication

Create awareness of the conscious and unconscious codes of meaning when communicating with others.

CETG 0175 Resume Writing Workshop

Get the secret to transforming a tired, boring resume into a powerful tool that will get interviews.

CETG 0402 Skills for Making Great Decisions

Learn to make excellent everyday decisions.

CETG 0127 Write Your Life Story

Find out how to make an inspirational autobiography.

CETG 0493 Introduction to Digital Scrapbooking

Learn how to make the most of scrapbooking talents and artistic ideas by combining digital and traditional scrapbooking techniques.

CETG 0491 Introduction to Guitar

Master basic guitar skills and become the musician you've always wanted to be.

PERSONAL FINANCE

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led

$99 each. enroll at www.ed2go.com/saltlakecc

CETG 0367 Where Does All My Money Go? Learn how to get control of money.

CETG 0292 Personal Finance

Protect assets and show how best to achieve financial goals.

CETG 0357 Keys to Successful Money Management

A certified financial planner previews strategies that wealthy people use to build their fortunes.

CETG 0160 Introduction to Stock Options

Learn how stock options can profit in any market.

CETG 0357 Building Wealth

Find out how most wealthy people build fortunes.

CETG 0307 Real Estate Investing

Build and protect wealth by investing in real estate.

START YOUR OWN BUSINESS

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led

$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0394 Start Your Own Small Business

Learn how to start a successful small business.

CETG 0120 Start and Operate Your Own Home- Based Business

Learn how to develop the motivation, discipline and creativity to quit a job and become self-employed.

CETG 0126 Start Your Own Consulting Practice

Find out how to earn income by sharing training or knowledge with others.

CETG 0177 Creating a Successful Business Plan

Turn business ideas into a solid plan for financing and long-term success.

CETG 0267 Business and Marketing Writing

Learn to write great marketing copy to improve a company's image.

CETG 0345 Marketing Your Business on the Internet

Develop an Internet marketing plan for a business.

CETG 0296 Learn to Buy and Sell on eBay

Learn how to work from home or earn extra income by buying and selling goods online.

CETG 0305 Secrets of the Caterer

Learn cooking and business secrets from a professional caterer.

CETG 0277 Get Paid to Travel

(Professional Tour Guide)

Learn everything needed to start a new and exciting career as a professional tour director.

CETG 0494 Start Your Own Arts & Crafts Business Learn to start an arts and crafts business.

CETG 0378 Start a Pet Sitting Business

Discover how to translate a love of animals into a fun and profitable career.

CETG 0467 Start Your Own Gift Basket Business

This course will teach students what they need to know to start a gift basket business and run it successfully.

TEACHING AND EDUCATION

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0335 Guided Reading & Writing: Maximum Student Achievement

Provide the professional development training needed to improve student literacy. Find out how to turn guided reading strategies into opportunities to teach writing.

CETG 0336 Guided Reading: Strategies for the Differentiated Classroom

Learn creative ways to bring differentiated instruction and guided reading to life in the classroom.

CETG 0389 Response to Intervention: Reading Strategies That Work

Learn response to intervention (RTI) strategies that ensure the struggling readers get the help and education needed.

CETG 0306 Enhancing Language Development in Childhood

Enrich the lives of children by teaching fun and natural ways to help them become proficient speakers and thinkers.

CETG 0344 Singapore Math Strategies: Model Drawing for Grades 1-6

Get training to start teaching model drawing, the powerful Singapore math strategy that gives word problems a visual context.

CETG 0644 Singapore Math Strategies: Advanced Model Drawing for Gr. 6-9

Master model drawing, a revolutionary technique for teaching middle school math students how to triumph over word problems and learn to love math.

CETG 0450 Singapore Math: Number Sense and Computational Strategies

Reveal Singapore's innovative and practical strategies for solving addition, subtraction, multiplication and division problems.

CETG 0143 Spanish in the Classroom

Learn essential Spanish for teachers to communicate effectively with Spanish-speaking students and parents.

CETG 0287 Teaching ESL/EFL Reading

Discover practical techniques and methods for teaching reading in any ESL or EFL environment.

CETG 0288 Teaching ESL/EFL Grammar

Learn new methods for teaching English grammar that both engage and challenge ESL/EFL students.

CETG 0289 Teaching ESL/EFL Vocabulary

Discover what makes a well-balanced vocabulary course when teaching ESL and how to plan one that meets student needs.

CETG 0379 Practical Ideas for the Adult ESL/EFL Classroom

Learn ESL teaching strategies for fostering a more successful learning environment for adult ESL/EFL students, as well as how to create activities that build
a bridge from the classroom to the real world.

CETG 0361 Teaching Science: Grades 4-6

Increase effectiveness as a science teacher for children in fourth through sixth grades.

CETG 0362 Teaching Writing: Grades 4-6

Learn ways to motivate and assist developing writers.

CETG 0360 Teaching Math: Grades 4-6

Reinvent math instruction for grades 4-6 by bringing hands-on learning, inexpensive manipulatives and real-world connections into the classroom.

CETG 0295 Differentiated Instruction in the Classroom

Improve ability to teach diverse learners with real-world examples from elementary, middle and high school classrooms.



Online Course

CETG 0276 Creating the Inclusive Classroom:
Strategies for Success

Learn to reach a diverse mix of students with proven strategies that turn diversity into opportunity.

CETG 0339 Teaching Students With Autism:
Strategies for Success

Help students with high-functioning autism and Asperger's Syndrome unlock their potential in the classroom.

CETG 0376 Working Successfully With Learning Disabled Students

Learn how to successfully meet the diverse needs of
the learning disabled students in the classroom.

CETG 0418 Teaching Preschool: A Year of Inspiring Lessons

Learn how to come up with creative and balanced preschool lesson plans for every month of the school year.

CETG 0272 Solving Classroom Discipline Problems

Reveal the secrets to an orderly classroom with a step-
by-step approach to effective, positive discipline.

CETG 0272 & 0572 Solving Classroom Discipline Problems I & II

Reveal the secrets to an orderly classroom with a step- by-step approach to effective, positive discipline.

CETG 0388 Survival Kit for New Teachers

Share secrets for success in the first years of teaching.

CETG 0363 The Classroom Computer

Learn how to use the classroom computer to increase learning and motivate students.

CETG 0331 Using the Internet in the Classroom

Discover how to use the Internet to make teaching easier and more relevant to students.

CETG 0363 The Creative Classroom

Enrich teaching talents and encourage students creative thinking.

TEST PREP

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led

$99 each. enroll at www.ed2go.com/saltlakecc

CETG 0263 GRE Preparation – Part 1
Discover powerful strategies for success in the verbal and analytical sections of the GRE.

CETG 0264 GRE Preparation – Part 2

Learn a variety of useful techniques for tackling the math section of the GRE.

CETG 0265 GMAT Preparation
Discover powerful test-taking techniques and methods for improving the GMAT score.

CETG 0210 GED Preparation
Develop the skills needed to pass the GED.

CETG 0410 Prepare for the GED Math Test
Master the skills to pass Test 5 in the GED
test series.

CETG 0211 SAT/ACT Preparation – Part 1
Get a good score on the verbal and reasoning sections of the new SAT exam.

CETG 0212 SAT/ACT Preparation – Part 2
Do well on the quantitative section of the new SAT.

CETG 0311 LSAT Preparation – Part 1
Learn about law school entrance procedures, develop analytical reasoning skills and improve test-taking skills.

CETG 0312 LSAT Preparation – Part 2
Improve logical reasoning and reading comprehension skills. Discover proven approaches for selecting correct exam answers.

CETG 0468 Praxis 1 Test Preparation
Develop the knowledge and skills needed to pass the Praxis I exam.

WEB & COMPUTER PROGRAMMING

6-8 weeks, NON-credit, Online, no meeting times, self-paced, Instructor-led
$99 each. Enroll at www.ed2go.com/saltlakecc

CETG 0100 Creating Web Pages

Learn the basics of HTML to design, create and post a site.

CETG 0500 Advanced Web Pages

Expand web development skills and learn how to create advanced websites using CSS, HTML5, media queries for mobile devices, interactive forms, and embedded video.

CETG 0151 Designing Effective Websites

Learn powerful graphic design techniques and build web sites that are both attractive and effective.

CETG 0164 & 0464 Beginning & Intermediate Java Programming

Learn introductory Java programming with clear, step by-step instructions. The intermediate course will help students deepen their understanding of Java and start writing more sophisticated and professional programs.

CETG 0373 & 0473 Beginning & Intermediate C# Programming

Learn the fundamentals of computer programming with the new C# programming language.

CETG 0346 & 0472 Beginning & Intermediate PHP and MySQL

Create dynamic, interactive web sites using PHP and a MySQL database server.

CETG 0372 & 0472 Beginning & Intermediate CSS3 and XHTML5

Learn to create state-of-the-art web sites using modern CSS and XHTML techniques.

CETG 0586 & 0587 Introduction & Intermediate Visual Basic 2008

Discover how to write VB programs that can access and modify a database.

CETG 0393 & 0493 Introduction to Python 2.5 & 3 Programming

Learn the fundamentals of computer programming in Python, including basic decisions and loops, advanced data structures, object-oriented programming and graphical user interfaces.

CETG 0364 Introduction to ASP.NET

Create powerful, interactive, community-based websites with ASP.NET.

CETG 0275 Introduction to C++ Programming

Learn to program in C++, without any prior programming experience!

CETG 0147 Introduction to Perl Programming

Learn a programming skill to become a more valuable web developer or system administrator.

CETG 0412 Introduction to Ruby Programming

Learn how to create a dynamic Web blog using the Ruby on Rails programming environment and the Ruby programming language.

CETG 0490 & 0590 Introduction to Creating WordPress Web Sites I & II

Learn how to use WordPress, a free and popular Web design tool to quickly and easily create attractive blogs and interactive websites.

CETG 0185 Achieving Top Search Engine Positions

Learn proven, step-by-step strategies to achieve the highest possible position with major search engines.

CETG 0517 & 0617 Intro to Adobe Flash CS5 & CS6

Learn how to use Adobe Flash software to create engaging websites, Flash movies, animation and interactive applications.

CETG 0544 & 0645 Intro to Dreamweaver CS5 & CS6

Learn how to use Adobe Dreamweaver CS4 to design, create and maintain a professional, user-friendly site.

EDUCATION TO GO (ED2GO) ONLINE WORKFORCE TRAINING CERTIFICATE PROGRAMS

Open-entry, non-credit, ONLINE, Self-paced
Enroll at www.gatlineducation.com/slcc

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Mykel Severson 801-957-5407
Mykel.severson@slcc.edu
View courses and enroll at www.gatlineducation.com/slcc

Salt Lake Community College, in partnership with Education to Go offers online, open enrollment certificate programs designed to provide the necessary skills to get professional level positions for many in-demand occupations.

Programs are designed by a team of professionals who work to provide an effective web-based learning experience. Instructors/mentors are actively involved in the online learning experience. They respond to any questions or concerns, as well as encourage and motivate success. Each program includes a set of lessons and evaluations. Grades are a combination of the instructor/mentor's evaluation of student work and computer graded tests. Enjoy the quality and convenience of online learning.

For more information, visit www.gatlineducation.com/slcc.

Location: ONLINE
Semesters Offered: Open enrollment, year round
Non-Credit—no prerequisites

Courses do not qualify for financial aid. Check with Division of Workforce Services to see if the course qualifies for assistance.

Program Courses:

ADMINISTRATIVE PROFESSIONAL
Open-entry, non-credit, ONLINE, Self-paced
Enroll at www.gatlineducation.com/slcc

CETG 0820 Administrative Professional with Microsoft Office Specialist 2010 Training (480 Hr) - $2395

This program teaches the skills needed to become a successful administrative professional using the Microsoft Office 2010 suite of programs. Receive training Word, Excel, Access, PowerPoint and Outlook. Successful completion of the program provides preparation for the MOS 2010 certification exam 77-881 or 77-887 offered by Microsoft.

CETG 0821 Administrative Professional with Microsoft Office 2010 Master (380 Hr) - $1995

This unique program will give students the skills needed to be a successful administrative professional and a master of Microsoft's suite of programs. The Microsoft Office 2010 Master program is the only comprehensive, performance-based certification program approved by Microsoft to validate business computer skills using Excel, Word, Power Point, and Outlook. To earn the Microsoft Office 2010 Master certification, students must pass four Microsoft certification exams; Word, Excel, Outlook, and PowerPoint 2010 (available at a certified testing provider, such as the College).

CETG 0822 Microsoft Office 2010 Master Certification Training (300 Hr) - $1695

Learn basic to advanced skills in Microsoft Word, Excel, PowerPoint, Outlook, and Access 2010, while preparing for certification. Students will disover how to create and format documents, use tables, complete a mail merge, and more. This online certificate program is offered in partnership with major colleges, universities, and other accredited education providers.

CETG 0824 Microsoft Word 2010 Certification Training (95 Hr) - $595

This online training program teaches basic to advanced skills in Microsoft Word 2010 while preparing for certification. Discover how to create and format documents, use tables, and complete a mail merge.

CETG 0825 Microsoft Excel 2010 Certification Training (95 Hr) - $595

This comprehensive, performance-based certification preparation program validates business computer skills using Microsoft Excel 2007 software. Covers basic through advanced topics, including formatting fonts, applying number formats, linking worksheets and creating a PivotTable.

CETG 0826 Microsoft Outlook 2010 Certification Training (45 Hr) - $595

Use this online training course to become an advanced Outlook user while preparing for certification. This is a comprehensive certification preparation program that teaches how to use Outlook to create and format e-mail, schedule events and plan meetings.

CETG 0827 Microsoft PowerPoint 2010 Certification Training (95 Hr) - $595

Learn to use Microsoft PowerPoint 2010 software. This program teaches how to create and format documents and visual content, as well as how to incorporate graphics, add notes and create animations. Learn basic through advanced skills while preparing for certification.

CETG 0828 Microsoft Access 2010 Certificate Training (95 Hr) - $595

This program is a comprehensive, performance-based certification preparation program that validates business computer skills using Microsoft Access 2010 software. Gain basic knowledge of the software, including how to use and design tables, forms and queries. Also learn how to link information and automate data entry.

BUSINESS & MANAGEMENT

Open-entry, non-credit, ONLINE, Self-paced Enroll at www.gatlineducation.com/slcc
Ed2go is a registered education provider for the Project Management Institute.

CETG 0850 Management Training (360 Hr) - $2295

Learn the essentials behind starting a business or pursuing an MBA. The Management Training Online Program is perfect for business owners, entrepreneurs and anyone who wants to learn the basics of business and management.

CETG 0852 Project Management with Microsoft Project 2010 (software not included) (100 Hr) - $1995

The project management portion of this online certification training program provides a comprehensive education in project management. Learn the basics of project management and get prepared for the current edition of the Project Management Professional national certification exam. Textbook and exam prep are included.

CETG 0853 Project Management (100 Hr) - $1695

This program will help improve project management knowledge and skills and prepare for the next step in professional development, including certification as a Project Management Professional.

CETG 0854 Six Sigma Black Belt (200 Hr) - $2695

This program integrates Six Sigma with hands-on data analysis. The program material provides an in-depth look at the Six Sigma Black Belt problem-solving methodology, DMAIC. Also learn about deployment and project development approaches.
All materials included.

CETG 0855 Six Sigma Green Belt (100 Hr) - $1895

This program encompasses all aspects of running a Six Sigma Green Belt business including management, service delivery, design, production

and customer satisfaction. Six Sigma is one of the highest standards for companies and individuals to achieve. This interactive online program provides the training to master these highly valuable skills. All materials included.

CETG 0856 Lean Mastery (60 Hr) - $1895

This program contains clear, concise information on transforming a business enterprise. A lean business eliminates waste and focuses on providing quality products and services on time and at a low cost.

CETG 0872 Entrepreneurship: Start-up & Business Owner Management (360 Hr) - $2095

This program provides an excellent foundation for start-up business owners and other business owners and managers who want to get a better understanding of some fundamental principles associated with owning and operating a start-up
or established business.

CETG 0862 Professional Bookkeeping with QuickBooks 2012 (140 Hr) - $1895

Prepare for a career in the high-demand field of bookkeeping by mastering QuickBooks 2010—the leading financial software tool for small businesses. Become an expert in everything from basic accounting to double-entry bookkeeping and gain the knowledge needed to ensure accounting methods meet all legal standards. The textbook Bookkeeping Made Simple is included in the cost of the program. Receive access to a free QuickBooks training
module. Software not included.

CETG 0863 Certified Bookkeeper (140 HR) - $1995

A program for experienced bookkeepers, which leads to national certification with the American Institute of Professional Bookkeepers (AIPB). This program was created by the AIPB.

CETG 0864 Payroll Practice & Management (80 Hr) - $1795

This program provides the training to update skills and become a payroll specialist. It also helps prepare for the Certified Payroll Professional (CPP) test given by the American Payroll Association.

CETG 0873 Non-Profit Management (300 HR) - $2295

Examines the fundamental principles of nonprofit management, explores the roles and responsibilities of a nonprofit board of directors and the management team, and helps students discover the essential aspects of fundraising and the budgeting process.

CETG 0866 Certified Mediator (120 hours) - $1,795

Certified Mediator offers a highly comprehensive conflict resolution education that can help students advance in their present jobs, add sought-after skills to a resume, or set up a private practice as a Certified Mediator. This program includes online training in mediation and a 60-hour online internship where students can role-play different mediation scenarios as a mediator, disputant, or observer. Upon completion, students will be eligible to become a Certified Mediator through Mediators without Borders®. The HR Certification Institute has pre-approved this program for recertification for HR professionals. The Project Management Institute
has also pre-approved this program for recertification units for PMI credential holders.

CETG 0871 Grant Writing (300 Hr) - $2295

This program teaches the essentials of writing, researching, obtaining and maintaining grants. Learn how to format proposals, write effectively and get funded.

CETG0859 Freight Broker/Agent Training (150 Hr) - $1,895

Learn the skills you need to be a successful Freight Broker/Agent. This is a growing industry of licensed individuals or corporations that help make a shipper and an authorized motor carrier successful in the transporting of freight. This online certificate program is offered in partnership with major colleges, universities, and other accredited education providers.

HEALTHCARE & FITNESS

Open-entry, non-credit, ONLINE, Self-paced
Enroll at www.gatlineducation.com/slcc

CETG 0800 Administrative Medical Specialist with Medical Billing and Coding + Medical Terminology (360 Hr) - $2495

This nationally recognized Administrative Medical Specialist (AMS) online training program with Medical Billing and Coding provides the skills to work as an administrative medical specialist (AMS), medical billing specialist, medical coder and/or medical office manager. The medical terminology online course introduces elements of medical terminology.

Upon completion of this program, students are eligible to sit for two National Healthcareer Association exams—the Certified Billing and Coding Specialist (CBCS) exam and
the Certified Medical Administrative Assistant (CMAA) exam. Both exams can be taken in a dual certification track through NHA.



CETG 0801 Administrative Medical Specialist with Medical Billing and Coding (300 Hr) - $1995

This program provides the skills to work as an administrative medical specialist (AMS), medical billing specialist, medical coder and/or medical office manager. In addition to the extensive medical billing information, learn every aspect of the medical receptionist/front desk position.

Upon successful completion of this course, students are prepared for an entry-level position doing medical billing or coding and will be prepared to sit for the Certified Billing and Coding Specialist (CBCS) exam and the Certified Medical Administrative Assistant (CMAA) exam.

CETG 0802 Medical Billing and Coding + Medical Terminology (300 Hr) - $1995

This online certificate program is designed to prepare students for a position as a medical coding and billing professional and introduces elements of medical terminology. Successful completion satisfies requirements for an entry-level position doing medical billing or coding in an office setting. Students are also eligible to register for and take the National Healthcareer Association (NHA)'s Certified Billing and Coding Specialist (CBCS) certification exam.

CETG 0803 Medical Billing & Coding (240 Hr) - $1795

This course gives students the skills to work as a medical billing specialist or medical coder.

Upon successful completion of the course, students receive a Certificate of Completion. They are then eligible to take the National Healthcareer Association (NHA)'s Certified Billing and Coding Specialist (CBCS) certification examination.

CETG 0804 Medical Transcription & Medical Terminology (300 Hr) - $1995

This program prepares students to start a new career as a medical transcriptionist. This program includes complete medical terminology training, transcription equipment and associated materials.

CETG 0805 Medical Transcription (240 Hr) - $1795

Gain the skills to transcribe recordings and create medical reports. Transcription equipment and all materials included.

CETG 0806 Medical Terminology (60 Hr) - $795

This online training program gives a full understanding of medical terminology, from word origins to their application. Learn the correct terms and spelling for all of the body systems, major pathological conditions, disorders, treatments and medications. Textbook included.

CETG 0807 ICD-10 Medical Coding (200 Hr) - $1795

This program teaches students how to prepare for and implement massive changes to the existing coding system required by the federal government by October 2013. Program covers an overview of the changes in store for both diagnostic and procedural medical coding, along with detailed information on the impacts of the medical coding changes to coders, health care staff, physicians, software systems, documentation and information technology. In addition to the comparison of the old system to the new system, the course includes training in the use of the new ICD-10 coding manuals. Textbooks included.

CETG 0808 Advanced Coding for the Physician's Office (80 Hr) - $1595

This nationally recognized online program teaches CPT, ICD-9-CM (Volumes I and II), and HCPCS Level II coding. This is an advanced program, designed for students with previous medical coding experience. Complete basic coding education or the ed2go Administrative Medical Specialist program before enrolling. The textbook and preparation for the Certified Professional Coder (CPC) certification exam are included.

CETG 0809 Advanced Hospital Coding & CSS Preparation (80 Hr) - $1895

This online program prepares students to take the American Health Information Management Association's (AHIMA) official certification exam to become a Certified Coding Specialist (CCS). This program covers advanced ICD-9 medical coding procedures and helps meet the challenge of today's changing standards while learning and improving coding skills.

CETG 0810 Administrative Dental Assistant (150 Hr) - $1795

This nationally recognized online certificate program teaches the essential skills for managing the business aspects of a dental practice and prepares students for a new career working in a dental office as an administrative dental assistant. Learn about dental terminology and anatomy, medical records management, accounts receivable and reimbursement management, insurance and patient billing, patient scheduling and procedural and diagnostic coding. Textbooks included.

CETG 0811 Clinical Dental Assistant (240 hours) - $1,995

This program will prepare students to become a professional dental assistant. Learn about every aspect of professional dental assisting, including real-world perspectives from experienced dental assistants and essential information about anatomy and physiology,

preventive dentistry, patient care and communication, radiology, pharmacology, anesthesia, assisting in specialty practices, employment strategies, and much more. Upon finishing this program, students will be prepared to successfully complete the radiology and infection control portions of the Dental Assisting National Board exam. All materials are included.

CETG 0812: Personal Training & Group Exercise Training for Older Adults (200 hours) $2,595

If you're interested in developing safe and effective exercise programs for older adults, the Personal Training and Group Exercise Training for Older Adults Online Program is for you! The certificate program incorporates standards from the International Curriculum Guidelines for Preparing Physical Activity Instructors of Older Adults, in collaboration with and endorsed by the World Health Organization.

CETG 0817: Certified National Pharmaceutical Representative (90 hours) $1,795

The goal of the Certified National Pharmaceutical Representative (CNPR) Online Training Program is to develop your knowledge in clinical pharmacology, physiology, and medical terminology. This knowledge will greatly enhance your understanding of the pharmaceutical industry and its selling process, and it will increase your hiring potential.

The CNPR Program was developed in partnership with the National Association of Pharmaceutical Sales Representatives (NAPSR). This unique training program will prepare you for a new career as a pharmaceutical sales representative and for national certification through NAPSR. As a registered student of the CNPR program, you'll automatically become a member of NAPSR, and you'll be eligible to sit for the CNPR national certification exam at no additional cost.

EYE CARE

Open-entry, non-credit, ONLINE, Self-paced
enroll at www.gatlineducation.com/slcc

CETG 0813 Optician Certification Training Certificate (150 Hr) - $1895

The need for eye care professionals is constantly expanding. Gain the skills and knowledge needed to obtain an entry-level job as an optician while preparing for the American Board of Opticianry (ABO) certification—a certification required by many states and a stepping stone to career advancement. If a student plans to take the ABO exam, a high school diploma or GED is required, and job experience is helpful.

IT & SOFTWARE DEVELOPMENT

Open-entry, non-credit, ONLINE, Self-paced
enroll at www.gatlineducation.com/slcc

CETG 0830 CompTIA A+ Certification Training (150 Hr) - $1695

This program prepares for two CompTIA™ A+ certification exams, A+ Essentials and A+ Practical Application. Topics covered include motherboards, memory, processors, video, storage media and devices, printers, operating systems, networking and security. This certification assures employers and computer owners that a PC repair technician has the knowledge to build, upgrade, optimize, troubleshoot and repair PCs.

CETG 0831 CompTIA Network+ Certification Training (80 Hr) - $1495

Learn the fundamentals to obtain a CompTIA™ Network+ certification and start a career as a network technician. Master basic networking concepts and learn about network design, security, routing and switching.

CETG 0832 CompTIA Security+ Certification Training (80 Hr) - $1495

Gain the skills to begin a career as a security professional and prepare to take the CompTIA™ Security+ exam. Become proficient in basic security concepts such as attacks and mitigation, security applications, risk assessment, disaster recovery, incident reporting and vulnerability assessment.

CETG 0833 Microsoft Certified Solutions Associate (MCSA): Server 2008 (275 hr) - $2195

The MCSA: Windows Server 2008 series will prepare students to take the Microsoft 70-640, 70-642, and 70-646 certification exams. The MCSA: Windows Server 2008 program will also prepare students to administer and manage Windows 2008 Networks.

CETG 0881 Microsoft Web Developer (200 Hr) - $1995

Learn how to develop Web pages using .NET Framework 3.5. and become a fully proficient Microsoft Web Developer prepared to take the Microsoft 70-536 and 70-562 exams. Master installing and using Visual Studio 2008, using web developer express and debugging code. Explore HTML concepts, elements and tags, attributes, hyperlinks and anchors, image management, XML, CSS, .NET programming, ASP.NET, JQuery, AJAX, ASP .NET Web Applications and .NET Framework 3.5.

MEDIA & DESIGN

Open-entry, non-credit, ONLINE, Self-paced
Enroll at www.gatlineducation.com/slcc

CETG 0840 Web Design Certificate (420 Hr) - $5995 (does not include software)

Program teaches students to develop the visual graphic and information design skills required to create compelling websites. Learn professional applications for Adobe Photoshop, Adobe Dreamweaver, Fireworks and Flash. Program projects include XHTML page markup, CSS-based layout and typography, home page and navigation design, Flash graphics and animations.

CETG 0883 Webmaster (150 Hr) - $1995

This online certificate program prepares students for a career in designing, developing and maintaining websites. The program begins by teaching simple web page development and processes by introducing new concepts and involving the student in active web page implementation using HTML and Dynamic HTML. Textbook included.

CETG 0843 Video Game Design & Development (500 HR) - $1995

This online certificate program is the place to start for a professional career as a video game designer and developer. This program is also well-suited for enthusiastic amateurs and gamers looking to explore this exciting field as a recreational endeavor. Textbook included.

CETG 0884 3Ds Max (300 HR) - $1695

Learn to use Autodesk's 3D Max to create professional animated 3D graphics for video games. This online training program goes through object modeling, material creation, animation, cameras, game characters, skeletons, rigging and scene generation. Spend time exploring the interface, learning how to work efficiently and seeing firsthand how to apply the right tools to accomplish tasks quickly.

CETG 0846 Multimedia Arts Certificate (360) - $5995

This online certificate program focuses on providing the conceptual, technical and visual design skills required to create multimedia applications and environments. Learn professional applications for Adobe Photoshop, Flash and After Effects, as well as digital video editing. Course projects include story boarding, retouching, compositing, Flash animation and site design, basic Action-Scripting, video and sound editing principles, motion graphics production and user interface design.

CETG 0841 Graphic Design with Photoshop CS5 (200 HR) - $1995

Learn how to use Photoshop CS5 including the fundamentals of graphic design and the design process. Discover the rules and standards for effective graphic design, web design and photo editing, as well as useful marketing strategies for creating graphics that convey the desired message, style and tone for future clients or personal use. Software not included.

CETG 0900: AutoCAD 2011 with AutoCAD 3D (230 hours) - $3,295

In this program, you'll master basic and advanced design skills as you gain hands-on practice in using the 2D commands and 3D modeling tools in AutoCAD 2011. This program contains Autodesk certified curriculum and as such, it is an official training guide—online. You'll begin with basic tools and then explore efficiency tools, complex objects, use of external reference and image files, advanced plotting, and customizations. In addition, you'll get a thorough grounding in the main features of AutoCAD's advanced 3D Modeling workspace. This program will give you the skills you need to prepare for the Autodesk AutoCAD 2011 Certified Associate exam.

VETERINARY
Enroll at www.gatlineducation.com/slcc

CETG 0814 Veterinary Assisting (200 Hr) - $1795

Prepare for a career working with animals, learn about animal care and how to recognize signs of illness and disease. This online program also covers interpersonal communication, interaction with clients and their animals, and how to assist the veterinarian during examinations.

Event and Meeting Planner Certificate

Contact:
Mi Yon Hodges
(801) 957-5338
miyon.hodges@slcc.edu
www.slcccontinuinged.com/event

This certificate program is designed for new and aspiring meeting and event professionals, as well as, those seeking a career change. Meeting and event planning is a multi-billion dollar industry. Organizations are becoming increasingly concerned about getting a higher return on investment. Employers recognize the need for an educated and skilled workforce. Students completing all nine online courses will be awarded a certificate upon completion. Students may also enroll in individual courses to increase their skills and knowledge in areas of specific interest.

Location: Online
Semesters Offered: All

Program Courses:
Please see Event and Meeting Planner Certificate, page 15 for complete listing.

Information Studies

The information sector provides a wealth of opportunities, including careers in libraries, information and knowledge management, and record managing. Gain valuable skills in the use of new technologies and automation practices as they apply to organizing, accessing, and retrieving information. All courses are offered in a convenient online format.

COMPETITIVE INTELLIGENCE

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/ci

Competitive Intelligence (CI) encompasses a systematic framework for organizational processes. Generally, a firm will use CI to drive medium to long-term strategies, increase efficiency and effectiveness of operations, as well as for marketing, planning, and decision-making. The outcomes of the ethical and legal CI processes will focus the organization's competitive advantage. Alternative courses of action may suggest options for achieving greater market share, targeting competitors, products, customers, and suppliers. Thus, the firm can develop a plan to increase superiority within the competitive environment. The phrase CI is often synonymous with Business Intelligence (BI), Market Intelligence, and Strategic Intelligence. An organization applies CI-BI to minimize uncertainty and hazards in the business environment and is based upon analytics that forecast future performance from current trends and historical metrics.

Format: Online
Semesters Offered: All

Program Courses:
Please see Competitive Intelligence, page 24 for complete listing.

CREATIVE PROBLEM SOLVING

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/cps

Creative problem solving is the ability to correctly identify a problem, generate alternative ideas for dealing with a situation, and successfully execute a solution. Learn the steps to take, and the resources available for solving problems of all shapes, sizes, and levels of complexity.

Format: Online
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit (Credit programs require application to the College)

Program Courses:
Please see Creative Problem Solving, page 25 for complete listing.

GENEALOGY

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/genealogy

The Genealogy certificate program teaches solid research and organizational skills to properly use genealogical records, with a focus on International or U.S. genealogical research. Become accredited/certified in genealogical research and develop valuable skills for many career paths. Complete six classes to earn a certificate.

Format: Online
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit (Credit programs require application to the College)

Program Courses:
Please see Genealogy, page 25 for complete listing.

KNOWLEDGE MANAGEMENT

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/knowmgt

Knowledge Management helps businesses and individuals learn how to access and organize electronic information. Learn how to use the Information Literacy Cycle (the process by which information is accessed, organized, evaluated, and applied) to meet information needs. Learn basic, intermediate and advanced Web searching techniques. Learn how to use the Technology Literacy Cycle (the technical processes by which we access electronic information) and the Media Literacy Cycle (the various platforms by which information is distributed) to be better able to control the information universe, and your place in it.

Format: Online
Semesters Offered: All

Program Courses:
Please see Knowledge Management,page 26 for complete listing.

INFORMATION SCIENCE

Contact:
Kathy Jonsson
(801) 957-5383
kathy.jonsson@slcc.edu
www.slcccontinuinged.com/is

Information Science professionals face a constantly changing information environment. Learn how to use the latest information technologies to organize, compare, and retrieve information. Receive training for entry-level jobs in public libraries, school libraries, academic libraries, special libraries, and media centers.

Format: Online
Semesters Offered: All
Credit/Non-Credit: Credit and Non-Credit (Credit programs require application to the College)

Program Courses:
Please see Information Science, page 27 for complete listing.

Travel Planner Certificate

Contact:

Mi Yon Hodges
(801) 957-5338
miyon.hodges@slcc.edu
www.slcccontinuinged.com/travel

This is a well-rounded career program to prepare students for the travel and tourism industry. It covers travel agencies, cruise lines, transportation companies, resorts and hotels, tourism companies and corporate travel departments. The program consists of 14 Internet-based courses.

Location: Online
Semesters Offered: All
Program Courses:

TRVL 1010 Intro to Hospitality & Travel (2 Cr)

Investigates the travel and hospitality industries, addressing theories, planning and environmental issues. Students gain a general knowledge of how and why public and private tourism businesses exist.

TRVL 1020 Travel Destinations (2 Cr)

Reviews the relevancy of geography to tourism and hospitality. Explore destinations around the world.

TRVL 1030 Travel Reservations (2 Cr)

Gain product knowledge and skills needed to research, plan and book air travel. Discusses terminology, policies and procedures of airline travel and airline reservations.

TRVL 1040 Automated Air Reservations (2 Cr.)

Practice booking, maintaining, changing and canceling air reservations using TRS© hands-on Computer Reservation System and simulation of Sabre®, in conjunction with the online tutorial.

TRVL 1050 Travel Sales and Trends (2 Cr)

Study sales techniques, including telephone business manners, listening skills and tools for targeting the traveler. Discusses web trends in the industry.

TRVL 1060 Air Fares US Domestic (2 Cr)

Prereq: Recommend concurrent with TRVL 1040.

This course presents the basics of air fares including terms, codes, fare construction principles and fare application rules necessary to find, interpret and apply the lowest applicable fares for clients.

TRVL 1070 ARC Documents (1 Cr)

Prereq: Recommend concurrent with TRVL 1040.

An introductory course to ticketing. Discusses various ticketing types, forms, policies/procedures per Airline Reporting Corporation (ARC), forms of payment, refunds and exchanges.

TRVL 1080 Automated Air Fares & Tickets (2 Cr)

Prereq: Recommend concurrent with TRVL 1040

Introduction to finding the lowest fares for clients using the RTS© hands-on Computer Reservation System and simulation of Sabre®, in conjunction with the online tutorial.

TRVL 1090 Ground Transportation (2 Cr)

Introduction to the basics of car rental policies and procedures, codes, pricing, distribution and rail travel including Amtrak, VIA Rail, BritRail/Eurail and train accommodations, services and fare structure.

TRVL 2010 Hotels & Lodging (1 Cr)

Covers the fundamentals of the hotel product, rate structure, property and room classifications, codes, published/automated resources, non-automated reservation procedures and variables that affect prices.

TRVL 2015 Automated Trvl Accommodations (1 Cr)

Prereq: TRVL 1040, TRVL 1080

Practice selecting, booking, maintaining, changing and canceling car rental and hotel room reservations using the RTS© hands-on Computer Reservation System (CRS) and simulation of Sabre®, in conjunction with the online tutorial.

TRVL 2020 The Cruise Market (2 Cr)

Overview of the basics of cruises including classifications, destinations, types of cruises and non-automated reservation procedures. Know how to book the right cruise for any client.

TRVL 2030 Selling Vacation Packages & Tours (2 Cr)

Overview of tour basics, including components of tours, tour destinations, types of vacation packages, print and electronic resources, non-automated tour booking procedures and function of tour operator/wholesaler.

TRVL 2040 Fares & Tickets International (1 Cr)

Introduction to international air travelers, including two basic international faring systems, mileage/routing and currency procedures, international fare basis codes, base fares, taxes and surcharges.

The following are NON-CREDIT ed2go online courses that can supplement the Travel Planner Certificate. These classes are not required. For more information about ed2go classes see page 33.

CETG 0277 Get Paid to Travel (Professional Tour Guide) (Non-Credit) - *$99*

Learn everything needed to start a new and exciting career as a professional tour director.

CETG 0390 Travel Photography (Non-Credit) - *$99*

Learn the tricks and techniques digital photographers need to capture captivating
scenes from around the world.

CETG 0131 Travel Writing (Non-Credit) - *$99*

Learn how to profit by writing and selling travel articles and books.



Salt Lake Community College

STEP AHEAD.

Featured Programs:

Accelerated Business Degree (A.S.)
(ARL) Transition to Teaching
Computer Workshops
Continuing Professional Development
Ed2Go Online Classes
Encore Institute
Energy Management Degree (A.S.)
Information Studies
Pharmacy Technician
Solar Installation Technician
Yoga Teacher Training

See website for full listing of programs:
www.SLCCContinuingEd.com

CONTINUING EDUCATION

Salt Lake Community College
Larry H. Miller Campus
9750 South 300 West MFEC 211
Sandy, UT 84070 | 801.957.5200

Spring 2015

Salt Lake Community College

Applied Technology

Program Guide

CAREER & TECHNICAL TRAINING











Salt Lake Community College

Step Ahead.

Coming July 2015



I'm taking competency-based classes because they are accelerated and self-paced.

Jimena Martinez
SLCC Applied Technology Student
Clinical Medical Assisting

Salt Lake Community College

Get there *faster* from here.

www.slcc.edu/appliedtech
801-957-3353

AA/EO Institution

Salt Lake Community College

Applied Technology

2015

CAREER & TECHNICAL TRAINING AT SALT LAKE COMMUNITY COLLEGE

Jordan Campus
3491 W 9000 S
West Jordan, UT 84088

Larry H. Miller Campus
9750 S 300 W
Sandy, UT 84070

Meadowbrook Campus
250 West 3900 South
Salt Lake City, Utah 84107-1459

South City Campus
1575 South State Street, Room 1-061G
Salt Lake City, Utah 84115-1610

Taylorsville Redwood Campus
4600 South Redwood Road
P. O. Box 30808
Salt Lake City, Utah 84130-0808

Westpointe Center
2150 West Dauntless Avenue (1000 N.)
Salt Lake City, Utah 84116

Phone: 801-957-3354
Fax: 801-957-3315

January 2015

All Information is current at time of printing.
View the entire Applied Technology Program Guide
for the most up-to-date program information at:
www.slcc.edu/appliedtech
E-mail: SAT@slcc.edu

Academic Calendar

No Classes

January 2015

S	M	T	W	R	F	S
				1	2	3
				H		
4	5	6	7	8	9	10
					AM	
11	12	13	14	15	16	17
	BB,C	C	C	C	C	C
18	19	20	21	22	23	24
	H	C	C	C	C	C
25	26	27	28	29	30	31
	C	C	C	C	C	C

February 2015

S	M	T	W	R	F	S
1	2	3	4	5	6	7
	C	C	C	C	C	C
8	9	10	11	12	13	14
	C	C	C	C	C	C
15	16	17	18	19	20	21
	H	C	C	C	C	C
22	23	24	25	26	27	28
	C	C	C	C	C	C

March 2015

S	M	T	W	R	F	S
1	2	3	4	5	6	7
	C	C	C	C	C	BE,C
8	9	10	11	12	13	14
	BB,C	C	C	C	C	C
15	16	17	18	19	20	21
	SB	SB	SB	SB	SB	NC
22	23	24	25	26	27	28
	C	C	C	C	C	C
29	30	31				
	C	C				

April 2015

S	M	T	W	R	F	S
			1	2	3	4
			C	C	C	C
5	6	7	8	9	10	11
	C	C	C	C	C	C
12	13	14	15	16	17	18
	C	C	C	C	C	C
19	20	21	22	23	24	25
	C	C	C	C	C	C
26	27	28	29	30		
	C	C	C	C		

May 2015

S	M	T	W	R	F	S
					1	2
					R	WF
3	4	5	6	7	8	9
	F	F	F	F/G	G/E	
10	11	12	13	14	15	16
17	18	19	20	21	22	23
	BB,C	C	C	C	C	C
24	25	26	27	28	29	30
	H	C	C	C	C	C
31						

June 2015

S	M	T	W	R	F	S
	1	2	3	4	5	6
	C	C	C	C	C	C
7	8	9	10	11	12	13
	C	C	C	C	C	BE,C
14	15	16	17	18	19	20
	BB,C	C	C	C	C	C
21	22	23	24	25	26	27
	C	C	C	C	C	C
28	29	30				
	C	C				

July 2015

S	M	T	W	R	F	S
			1	2	3	4
			C	C	H	H
5	6	7	8	9	10	11
	C	C	C	C	C	C
12	13	14	15	16	17	18
	C	C	C	C	C	C
19	20	21	22	23	24	25
	C	C	C	C	H	C
26	27	28	29	30	31	
	C	C	C	C	C	

August 2015

S	M	T	W	R	F	S
						1
						C
2	3	4	5	6	7	8
	C	C	C	C	C	BE,C
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
		AM	BB,C	C	C	C
30	31					
	C					

September 2015

S	M	T	W	R	F	S
		1	2	3	4	5
		C	C	C	C	C
6	7	8	9	10	11	12
	H	C	C	C	C	C
13	14	15	16	17	18	19
	C	C	C	C	C	C
20	21	22	23	24	25	26
	C	C	C	C	C	C
27	28	29	30			
	C	C	C			

October 2015

S	M	T	W	R	F	S
				1	2	3
				C	C	C
4	5	6	7	8	9	10
	C	C	C	C	C	C
11	12	13	14	15	16	17
	C	C	BE,C	FB	FB	NC
18	19	20	21	22	23	24
	BB,C	C	C	C	C	C
25	26	27	28	29	30	31
	C	C	C	C	C	C

November 2015

S	M	T	W	R	F	S
1	2	3	4	5	6	7
	C	C	C	C	C	C
8	9	10	11	12	13	14
	C	C	C	C	C	C
15	16	17	18	19	20	21
	C	C	C	C	C	C
22	23	24	25	26	27	28
	C	C	C	H	H	NC
29	30					
	C					

December 2015

S	M	T	W	R	F	S
		1	2	3	4	5
		C	C	C	C	C
6	7	8	9	10	11	12
	C	C	C	C	R	WF
13	14	15	16	17	18	19
	F	F	F	F	G/E	
20	21	22	23	24	25	26
					H	
27	28	29	30	31		

Shaded areas indicate days the school is not in session.
Subject to Change, based on Academic Guide.

Note: Classes will be scheduled within these instructional days;
see individual course schedule for days/times.

Applied Technology 2015 • 1575 South State Street, Salt Lake City, Utah 84115
801-957-3354 • SAT@slcc.edu • www.slcc.edu/appliedtech

Admission & Registration

The School of Applied Technology and Professional Development at Salt Lake Community College provides quality career and technical education in a flexible, competency-based format to meet the needs of students who desire low-cost training for high-skill job fields. Programs are responsive to business and industry requirements resulting in appropriate licensure, certification, or evidence of completion.

Instructional Delivery

The School of Applied Technology and Professional Development specializes in open-entry, open-exit instructional delivery. This means students may enroll weekly depending on the school calendar and available seats, and are able to complete courses when proficiency has been demonstrated and evaluated by instructors.

Courses are delivered in two formats: self-directed and instructor-led. The majority of courses are delivered in the self-directed format. This allows new students to join an on-going class or program any time, and allows students to complete course work as quickly as they are able to demonstrate competency. Grades issued are MC (Master Competency), when a student passes a course, or NM (Not Mastered). A qualified instructor is always present to guide, coach, mentor, and evaluate progress as students work through their prescribed instructional activities.

Instructor-led courses have a scheduled start and end time in which students are members of a cohort and work on instructional modules as directed by the instructor.

Stand-Alone Courses

Most courses offered through Applied Technology may be taken stand-alone, however some prerequisites may apply. The tuition for most stand-alone courses is based on $2.10 times the course's total clock hours. Students may receive a *Recognition of Achievement* from their instructor for completing a stand-alone course (as determined by the department.)

Basic Skills Assessment

The Test of Adult Basic Education (TABE) and other standardized tests will be used to ensure adults have acquired the basic skills necessary to succeed in the training program in which they wish to enroll. High school students will work with their school counselor to ensure they have the appropriate skill levels needed to successfully complete the program of their choice.

High School Students

Prior to admission, all high school students must complete the high school pre-registration form and obtain signatures from their counselor and parent/guardian. On this form, the student will indicate if they are seeking high school credit.

High school students do not pay tuition but are responsible for an application fee, lab fees, classroom fees, and purchasing books and supplies, as needed.

A select number of Applied Technology programs prepare students for occupational industries and clinical externships that require students to be at least 18 years old before placement or hire.

International Students

SLCC welcomes international students and scholars. SLCC is authorized to issue the USCIS form I-20 or DS2019 to qualified non-immigrants. Students must complete an international application and meet all requirements to receive an I-20. The tuition rate for International Students is based on $7.35 per clock hour. SLCC accepts international students who have satisfactorily completed secondary school.

Contact the International Students Office for more information: Phone: 1-801-957-4528; Fax: 1-801-957-4432;
Email: international.services@slcc.edu; Website: www.slcc.edu/iss.

English as a Second Language Students

Students enrolling in English as a Second Language will be tested in order to determine the appropriate starting level.

Equal Opportunity/Affirmative Action

SLCC is an equal opportunity institution providing educational and employment opportunities without regard to race, color, religion, sex, national origin, age or disability.

Inquiries concerning the above, including the application of Title I, Title VI, Title VII, Title IX, or Section 504 may be referred to the SLCC Director of Equal Employment Opportunity at 801-957-4561 or 801-957-4687.

Definitions

Title I:	Americans Disability Act
Title VI:	Civil Rights Act
Title VII:	Civil Rights Act
Title IX:	Educational Amendments of Rehabilitation Act
Section 504:	A Section of the Age Discrimination in Employment Act

Americans With Disabilities Act (ADA)

Students with medical, psychological, learning or other disabilities desiring accommodations or services under ADA must contact the Disability Resource Center (DRC). The DRC determines eligibility, and authorizes the provision of these accommodations and services for the college.

Please contact the DRC at the Student Center, Suite 244, Taylorsville Redwood Campus, 4600 South Redwood Road, Salt Lake City, Utah 84123.

Phone: 801-957-4659
TTY: 801-957-4646
Fax: 801-957-4947
E-mail: linda.bennett@slcc.edu

Step-By-Step Enrollment

PARKING WHILE REGISTERING FOR CLASSES

South City Campus (SCC): Park at meters or obtain a complementary day pass from the Academic Advising receptionist.

1. Apply for Admission

- International Students - Students temporarily in the United States on a visitor or other visa must apply through the International Students Office. International students pay additional fees. Call 801-957-4528 or visit www.slcc.edu/iss.
- High school students must first complete a Pre-Registration form, which can also be accessed online at: www.slcc.edu/appliedtech
- All Others: Complete an application online on the Applied Technology admission web page: www.slcc.edu/appliedtech
  A $40.00 non-refundable application fee is required, however sponsors may pay this on behalf of eligible students.
- Following your application, please meet with an advisor to determine your desired program, availability, and eligibility. Advisors are available Monday through Friday from 8:00 a.m. to 4:30 p.m. You can also call 801-957-3354 for more questions about meeting with an advisor. To meet with an advisor, go to:

  South City Campus
  1575 South State Street, Room 1-061M
- Following your meeting, an advisor will issue a test order for Applied Technology Assessment Services.

2. Complete the Assessment

- Complete your scheduled testing at South City Campus, Room 2-147, as required.
- Most programs require proof of basic skills proficiency in the form of college transcripts, or by taking standardized tests.
- Meet with an advisor to review your testing results.

3. Pay Tuition & Schedule Courses

- Apply for financial assistance any time during the enrollment process. Financial assistance for tuition, fees, and books may be available from a number of sources (high school students do not pay tuition but do pay classroom fees):

  - PELL Grants: Contact the financial aid advisor at 801-957-3437, South City Campus, Room 1-061B.

  - VA Grants: Contact the VA advisor at 801-957-3010, South City Campus, Room 1-061HB.

  - Scholarships: Contact the Director of Student Conduct & Support at 801-957-3133, South City Campus, SCM 2-068A

  - Government agency sponsors: Contact each agency before enrolling.
- Obtain a cost estimate from the advisor and pay tuition to complete the enrollment process. The advisor will schedule courses once payment is verified.

4. Purchase Books & Supplies

- Books and supplies are available at Salt Lake Community College bookstores on the South City, Jordan, and Taylorsville Redwood Campuses. Other sites may provide limited bookstore services.
- Payment for books and supplies are made directly to the bookstore. (Costs listed for books and supplies are estimates and are subject to change without notice.)

5. Attend or View Orientation as Appropriate

- Receive class schedule.
- Obtain official OneCard Student ID (bring a picture ID) at South City campus. A OneCard may be obtained at the Taylorsville Redwood, South City and Jordan Campuses.

6. Transportation

- Parking Permits: Purchase a parking permit or bus pass at most SLCC campus locations. Parking permits may also be purchased at Meadowbrook Campus, main reception desk in Building B. Please contact the SLCC Parking Services website at www.slcc.edu/parking for more information.
- Bus Pass: A reduced fee bus pass is available on a monthly or semester basis.
- SLCC provides all students, staff, and faculty a FREE campus shuttle service. The B-line busses connect South City, Meadowbrook, Taylorsville Redwood, Jordan, and Miller campuses. Monday - Thursday 7:00 a.m. - 8:00 p.m. and Friday's from 7:00 a.m. - 2:00 p.m. Visit www.slcc.edu/onecard/bline.aspx for a full schedule.

7. Attend First Day of Class as Scheduled

- The printed class schedule is required for entry into the classroom.

Resident Tuition - Fiscal Year 2014-2015

Description	Financial Aid	Hours	Tuition	Student Fees	Lab Fees	Books/Supplies	Total
Accounting Clerk	Pell, VA	769	$1,614.90	$115.35	$62.00	$368.00	$2,160.25
Administrative Office Specialist	Pell, VA	625	$1,312.50	$93.75	$54.00	$460.00	$1,920.25
Air Conditioning Heating Refrigeration	Pell, VA	960	$2,016.00	$144.00	$110.00	$885.00	$3,155.00 *
Armed Services Vocational Aptitude (ASVAB), Test Preparation	VA	Varies	Varies	Varies	Varies	Varies	Varies *
Automation and Instrumentation Technician	Pell	1,362	$2,860.20	$204.30	$100.00	$1,306.00	$4,470.50
Certified Nursing Assistant	VA	130	$273.00	$19.50	$20.00	$230.00	$542.50
Clinical Lab Assistant	No	345	$724.50	$51.75	$130.00	$414.00	$1,320.25
Clinical Medical Assisting	Pell, VA	950	$1,995.00	$142.50	$145.00	$414.00	$2,696.50
College Academic Readiness - Holistic	No	64 - 256	Varies	Varies	Varies	Varies	Varies *
College Academic Readiness - Targeted	No	32 - 128	Varies	Varies	Varies	Varies	Varies *
Commercial Driver's License	VA	Varies	Varies	Varies	Varies	Varies	Varies *
Commercial Foods Certificate	Pending	930	$1,953.00	$139.50	$793.00	$485.91	$3,371.41
Computer Support Specialist (A+ Certification)	Pell, VA	615	$1,291.50	$92.25	$80.00	$729.00	$2,192.75 *
Customer Service/Receptionist	VA	330	$693.00	$49.50	$29.50	$230.00	$1,002.00
Electromechanical Assembly Technician	VA	454	$953.40	$68.10	$95.00	$597.00	$1,713.50
Electronics Assembly Technician	VA	228	$478.80	$34.20	$45.00	$284.00	$842.00
Electronics Communication Technician	Pell	1,310	$2,751.00	$196.50	$120.00	$1,306.00	$4,373.50
Electronics Engineering Technician	Pell	1,226	$2,574.60	$183.90	$150.00	$1,130.00	$4,038.50
Electronics Technician	Pell, VA	1,142	$2,398.20	$171.30	$130.00	$1,150.00	$3,849.50 *
English as a Second Language	VA	300	$630.00	$45.00	$20.00	$150.00	$845.00 *
GED Test Preparation	VA	Varies	Varies	Varies	Varies	Varies	Varies *
Graphic Designer	Pell, VA	645	$1,354.50	$96.75	$70.00	$400.00	$1,921.25
Health Information Specialist	Pell, VA	678	$1,423.80	$101.70	$49.50	$675.70	$2,250.70
Diesel Service Technician	Pending	745	$1,564.50	$111.75	TBD	Varies	$1,676.25 *
Manual Machinist	VA	450	$945.00	$67.50	$60.00	$225.00	$1,297.50
Media Design Technology	Pell, VA	1,275	$2,677.50	$191.25	$125.00	$550.00	$3,543.75 *
Medical Coding and Billing	Pell, VA	803	$1,686.30	$120.45	$354.50	$1,146.00	$3,307.25
Medical Office Administration	Pell, VA	940	$1,974.00	$141.00	$49.50	$794.00	$2,958.50
Network Administrator (MCITP:SA)	Pell, VA	645	$1,354.50	$96.75	$60.00	$978.00	$2,489.25
Network Engineer	Pell, VA	855	$1,795.50	$128.25	$80.00	$1,380.00	$3,383.75
Network Infrastructure Technician (CCNA)	VA	825	$1,732.50	$123.75	$100.00	$557.00	$2,513.25 *
Truck Driving, Professional	VA	240	$504.00	$36.00	$1,950.00	$87.00	$2,577.00
Web Programmer (Non-Matriculated)	Pell, VA	765	$1,606.50	$114.75	$75.00	$458.00	$2,254.25
Web Site Designer	Pell, VA	675	$1,417.50	$101.25	$65.00	$407.00	$1,990.75
Welding	Pell, VA	1,155	$2,425.50	$173.25	$300.00	$506.00	$3,404.75

* Costs may vary depending on supplies, electives, or educational goals

Basic Skills Development

(Costs are subject to change)

Name	Location	Total Hours	Application Fee	Total Tuition	Total Student Fee	Total Lab Fee	Estimated Books & Supplies	Total Cost
College Academic Readiness Holistic	SCC	64*	$40.00	$134.40 for each 64-hour course needed	$9.60 per each 64-hour course	$20.00 for KALL 0110, $5.00 for KABR 0115	$85.00-260.00	$288.88-463.88
College Academic Readiness–Targeted	SCC	32*	40.00	$67.20 for each 32-hour course needed	$4.80 per each 32-hour course	$10.00 per each 32-hour course	N/A	$82.00 - $246.00, depending on number of courses needed
ESL - Level 1 and 3C	SCC	As scheduled	40.00	$2.10 per clock hour	$0.15 per clock hour	$20.00 for each language lab	$64.00-150.00 per level	Dependant on number of courses scheduled
ESL - Level 2 and 3	SCC, TRC	As scheduled	40.00	$2.10 per clock hour	$0.15 per clock hour	$20.00 for each language lab	$64.00-150.00 per level	Dependant on number of courses scheduled
Open Learning Lab	SCC	As scheduled	40.00	$61.50 per term regardless of schedule	N/A	N/A	N/A	$61.50 per term regardless of schedule

*Individuals may need more or less hours depending on educational goals.
**Does not include the $40.00 application fee.

Program/Course Table of Contents

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	*Locations may change.	
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English as a Second Language (ESL)	South City and Taylorsville Redwood	11
Business Office Technology		
Accounting Clerk	South City	12
Administrative Office Specialist	South City	12
Customer Service/Receptionist	South City	13
Computer & Network Technology		
Computer Support Specialist (A+)	Taylorsville Redwood	14
Network Administrator (MCTS & MCITP:SA)	Taylorsville Redwood	14
Network Engineer	Taylorsville Redwood	15
Network Infrastructure Technician (CCNA)	Taylorsville Redwood	15
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Please note that due to programmatic changes the course sequence may not coincide with what is required for completion for each program.

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*Locations may change.		
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Skilled Service Technology		
Air Conditioning/Heating/Refrigeration	Meadowbrook	28
Diesel Service Technician	Meadowbrook	28

Please note that due to programmatic changes the course sequence may not coincide with what is required for completion for each program.

Stand-Alone Courses

Most courses offered through Applied Technology may be taken stand-alone, however some prerequisites may apply. The tuition for most stand-alone courses is based on $2.10 times the course's total clock hours. Students may receive a *Recognition of Achievement* for completion of stand-alone courses as (determined by the department.)

DELIVERY TYPE

Instructor-led courses: Instructor-led courses have a scheduled start and end time.

Self-directed courses: Students attend as scheduled and work independently through the curriculum. An instructor is present in the classroom to provide ongoing assistance.

The following courses are not offered as part of a program:

Stand-Alone Course Schedule & Costs

(Costs are subject to change)

Code	Course Title	Hours	Costs*			Days and Times		Delivery Type	Location
			Tuition	Student Fee	Lab Fee				
KCDL 0100	CDL Learner's Permit	16	$33.60	$2.40	N/A	M, T, W only 3pm - 6pm		Self-directed	Meadowbrook
KCDL 0120	CDL Upgrade	80	$168.00	$12	$545	Daytime: M-F 8am - 4pm	Evenings: M-TH 5pm - 10pm	Instructor-led/Self-directed	Meadowbrook
KCNA 0010	CPR for Health Care Pros	4	$8.40	$0.60	$20	As Scheduled		Instructor-led	Jordan
KELA 0175	IPC-A-610E IPC Certified IPC Specialist Recertification/Challenge Option	12	$25.20	$1.80	$30	As Scheduled		Self-directed	Westpointe
KEMA 0170	IPC-J-STD-001E Certified IPC Specialist Recertification/Challenge Option	16	$33.60	$2.40	$30	As Scheduled		Self-directed	Westpointe
KEMA 0171	IPC/WHMA-A-620B Certified IPC Specialist Recertification/Challenge Option	12	$25.20	$1.80	$30	As Scheduled		Self-directed	Westpointe

*Application fee is $40. If needed, books and supplies are extra.

BASIC SKILLS DEVELOPMENT

College Academic Readiness

- Reading, Writing, Mathematics, and GED Preparation
- Open Entry / Open Exit (flexible start dates)
- Competency-based individualized instruction, with pre and post testing for each unit
- Blended curriculum: Textbooks and software
- Tuition based on $2.10 per clock hour
- Available in two modalities: Holistic and Targeted

Holistic

Instruction is designed to assist students who want to improve their reading, writing, math, and/or GED preparation skills before entering vocational training or college classes. Faculty work with students on an individual basis using a variety of instructional materials to help them achieve the desired skill level. Most work can be applied toward adult high school completion/diploma if the student is registered in adult education through their school district. Computer-assisted instruction is also provided through the Integrated Learning Lab and is designed to supplement classroom activities. Instruction is geared to meet the needs of the most elementary level adults through high school/GED/college reading, writing, and math skills.

Structured Mode of Delivery:
Sequential Comprehensive Units
Location: South City Campus

Tuition:
- $134.40 for each 64-hour course needed
- $9.60 student fee per each 64-hour course
- $20 lab fee
- Approximately $457.00 if enrolled in 3 classes (about 3 ½ months each)

Schedule*:
- Available M-F, 8:00am to 1:00pm, or M-Th, 5-9pm
- 13–16 weeks, depending on schedule
- 2 courses, 1 lab = 3 courses (M – F)
  OR 2 GED, 1 Math = 3 courses (M – F)
- Average of 15 hours per week
- Could take 4/5 hours daily (higher costs)

Enrollment Criteria:
- 5.0 Reading
- 5.0 Math
- 8.0 Reading/Vocabulary for GED Prep

Assessment Tracking:
- TABE testing every 60-90 days
- Monthly progress reports

Other Courses:
- ASVAB Test Preparation

Targeted

This modality offers self-directed instruction in basic education. Each course may include topics such as reading, writing, and math. Students are eligible to enroll to improve their skills in preparation for college classes, certificate training programs or the GED. This program is designed to offer students a flexible classroom schedule. Students may schedule classroom hours any day from 8:00 AM to 8:00 PM. The student schedule may include different hours on different days. This is necessary to accommodate students with varied work schedules.

Student and instructor meet to establish goals and learning objectives using a Personalized Learning Plan.

Targeted Mode of Delivery:
Curriculum assigned by instructor to eliminate gaps in math and/or reading
Location: South City Campus

Tuition:
- $67.20 for each 32-hour course needed
- $4.80 student fee per each 32-hour course
- $10 lab fee
- Approximately $82.00 for one class (about 4 weeks each, depending on schedule)

Schedule*:
- Available M-Th, 8:00am to 8:00pm
- Flexible scheduling
- 2–4 weeks, depending on schedule
- Average of 16 hours per week
- Could take more hours daily (same cost) for a total of 32 hours per month

Enrollment Criteria:
- 4.0 Reading (CPT 36)
- 4.0 Math (CPT 26)
- CASAS 236 or above for ESL Learners

Assessment Tracking:
- TABE or Accuplacer, monthly
- Weekly and Monthly progress reports

Other Courses:
- TABE/CPT Test Preparation

***Note: Minimum weekly - 8 hours, and 80–90% attendance required**

BASIC SKILLS DEVELOPMENT

Armed Service Vocational Aptitude Battery (ASVAB) Test Preparation

This program is designed to assist students in preparing for the Armed Services Vocational Aptitude Battery (ASVAB). The scores on this test battery can qualify candidates for certain jobs and training in the armed forces.

Instruction is concentrated in the ten ASVAB areas:

- General science
- Arithmetic reasoning
- Word knowledge
- Paragraph comprehension
- Numerical operations
- Coding speed
- Auto and shop information
- Mathematics knowledge
- Mechanical comprehension
- Electronics information

Resource materials and instructors are available for individual lessons and practice before taking the test. Reading and test-taking strategies are presented to reduce test anxiety and encourage confidence. Practice tests will be administered to measure the student's readiness for completing the exam.

COURSES & HOURS	
Program Hours: Minimum two to four hours per day, as arranged	
KALL 0110 Integrated Learning Lab	KABM 0115 Mathematics
KABR 0115 Reading	KGED 0600 GED Test Preparation

QUICK FACTS

Location:
South City

Course Hours:
As scheduled, days and evenings

Application Fee:
$40

Tuition:
$134.40 for each 64-hour course needed

Student Fee:
$9.60 per each 64-hour course

Lab Fee:
$20 for KALL 0110,
$5 for KABR 0115

Books/Supplies:
$88

Financial Aid:
VA

GED Test Preparation (KGED)

The GED Test Preparation course is designed for individual student study to prepare for the GED exam. Resource material is available for individual lessons and practice in the tested areas of mathematics, writing skills, social science, science, and interpreting literature and the arts. Reading and test-taking tips are presented in the course to lessen test anxiety and encourage confidence. Diagnostic and practice tests are administered to measure the student's readiness for the exam. The Integrated Learning Lab also is used to strengthen classroom instruction and to prepare the student for the final GED exam. Three hours of classroom instruction are GED, writing, and math. Additional hours, as needed: math or Integrated Learning Lab.

Please contact College Testing, at 801-957-4572, for GED testing information.

QUICK FACTS

Location:
South City

Course Hours:
As scheduled, days and evenings

Application Fee:
$40

Tuition:
$134.40 for each 64-hour course needed

Student Fee:
$9.60 per each 64-hour course

Lab Fee:
$20 for KALL 0110

Books/Supplies:
$100 – $225

Financial Aid:
VA

COURSES & HOURS	
Program Hours: Minimum three hours per day, as arranged	
KALL 0110 SCIL Lab	KABM 0115 Math
KGED 0500 GED Preparation Language Arts/Writing	KGED 0600 GED Test Preparation

BASIC SKILLS DEVELOPMENT

English as a Second Language (ESL)

Applied Technology offers three levels of ESL leading to vocational training or college level classes. A placement test is given to determine the level at which a student should begin. Placement tests are arranged at the time students seek to register for the program. Students participate in the Integrated Learning Lab which focuses on the individual needs of the students. ESL classes include intensive practice in reading, writing, grammar, listening, vocabulary, pronunciation, conversation, and computer-aided instruction.

COURSES & HOURS	
Program Hours: Level I, II, and III - 300 hours per level (Minimum two hours per day)	
Level I - Beginning ESL KESL 0110 Grammar/Writing KESL 0120 Reading KESL 0150 Listening/Speaking KESL 0455 Language Lab	**Level II - Intermediate ESL** KESL 0210 Grammar/Writing KESL 0220 Reading KESL 0251 Listening/Speaking KESL 0455 Language Lab
Level III - Advanced ESL KESL 0310 Grammar/Writing KESL 0320 Reading KESL 0350 Listening/ Note-take Skills KESL 0351 Listening/Speaking KESL 0455 Language Lab	**Level III - (C) Advanced Pre-College ESL** KESL 0711 Pre-College Writing KESL 0721 Pre-College Reading KESL 0731 Listening/ Speaking KESL 0740 Computer & Writing Lab KESL 0751 Grammar

QUICK FACTS

Location:
South City & Taylorsville Redwood

Course Hours:
As scheduled (Please refer to the website)

Application Fee:
$40

Tuition:
Based on $2.10 per scheduled clock-hour

Student Fees:
$0.15 per scheduled clock-hour

Lab Fees:
$20 for each language lab

Books/Supplies:
$64 – $150 per level

International Students:
Based on $7.35 per scheduled hour (Not including books and International Application fee).

Financial Aid:
VA

INTERNATIONAL STUDENTS

International students (students on a non-immigrant visa) must complete the International Student Application for Admission through the International Student Services: Taylorsville Redwood Campus • Room STC 234 • Phone 801-957-4528, • Website: www.slcc.edu/iss • e-mail: international.services@slcc.edu.

Students will be charged a $75 application fee at that time.

Beginning Fall semester 2014 SLCC F-1 international students will automatically be enrolled in the Ascension Health Insurance Plan when they register for classes. Please contact the International Student Services Office for further details.

BUSINESS OFFICE TECHNOLOGY

Accounting Clerk

The Accounting Clerk Program enables students to develop entry-level skills in the office accounting and/or bookkeeping areas. The most up-to-date tools necessary for securing and maintaining employment are emphasized throughout the program. Emphasis is placed on standard accounting office procedures including presentation software (MS PowerPoint), team skills and activities, and exposure to other software packages including MS Outlook, Secretarial accounting, computer-based accounting principles, data-entry, skill building, speed and accuracy, customer service, spreadsheets (MS Excel), and word processing (MS Word) are also emphasized.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 43-3031 Bookkeeping, Accounting, and Auditing Clerks
- 43-4071 File Clerk
- 43-9061 Office Clerk

QUICK FACTS

Location:
South City

Program Hours:
769

Application Fee:
$40

Tuition:
$1,614.90

Student Fees:
$115.35

Lab Fees:
$62

Books/Supplies:
$368

Financial Aid:
VA, PELL

COURSES & HOURS	
KAOS 0115 Keyboarding/Skillbuilding	80
KAOS 0165 Comp. Ten-Key	75
KAOS 0170 Computer Concepts	30
KAOS 0235 Adv. Business Communications	69
KAOS 0250 Customer Service Life Skills	60
KAOS 0185 Basic Word Processing	40
KAOS 0260 Presentations	30
KACT 0125 Comprehensive Spreadsheets	80
KACT 0135 Accounting	140
KACT 0170 Records Management	30
KACT 0195 Comp. QuickBooks	80
KAOS 0270 Data Base	40
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**769**

Administrative Office Specialist

The Office Specialist program enables students to develop entry-level skills in the computer/office occupations area. The most up-to-date tools necessary for securing and maintaining employment are emphasized throughout the program. Emphasis is placed on keyboarding skill building, ten-key calculator skills, computer concepts, Windows, Internet, and e-mail. Further emphasis is placed on computer applications including spreadsheets, word processing, presentations, database and basic QuickBooks. Students learn business communication skills, business office procedures, customer service, and life skills training.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 43-9061 General Office Clerk
- 43-6014 Secretaries

QUICK FACTS

Location:
South City

Program Hours:
625

Application Fee:
$40

Tuition:
1,312.50

Student Fees:
$93.75

Lab Fees:
$54

Books/Supplies:
$460

Financial Aid:
VA, PELL

COURSES & HOURS	
KAOS 0115 Keyboarding/Skillbuilding	80
KAOS 0155 Intermediate Ten-Key	50
KAOS 0170 Computer Concepts	30
KAOS 0250 Customer Service Life Skills	60
KAOS 0195 Comprehensive Word Processing	80
KAOS 0245 Comprehensive Business Communications	90
KACT 0170 Records Management	30
KAOS 0260 Presentations	30
KACT 0125 Comprehensive Spreadsheets	80
KACT 0185 Basic QuickBooks	40
KAOS 0270 Database	40
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**625**

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801-957-3354 • SAT@slcc.edu • www.slcc.edu/appliedtech

BUSINESS OFFICE TECHNOLOGY

Customer Service/Receptionist

This program provides basic training in keyboarding skill building, ten-key calculator, computer concepts, Internet, and e-mail. The course also teaches telephone etiquette, professionalism, business communication skills, and introduction to word processing (MS Word). Special emphasis is given to customer service and life skills training. Students learn to use assertive skills and problem solving to provide quality customer service.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/ find/and enter the following O*Net code(s):

- 43-4051 Customer Service Representative
- 43-4081 Hotel, Motel, and Resort Desk Clerks
- 43-4151 Order Clerk
- 43-4171 Receptionist and Information Clerks

QUICK FACTS

Location:
South City

Program Hours:
330

Application Fee:
$40

Tuition:
$693.00

Student Fees:
$49.50

Lab Fees:
$29.50

Books/Supplies:
$230

Financial Aid:
VA

COURSES & HOURS	
KAOS 0115 Keyboarding/Skillbuilding	80
KAOS 0145 Basic Ten-Key	25
KAOS 0170 Computer Concepts	30
KAOS 0215 Basic Business Communication	40
KAOS 0250 Customer Service Life Skills	60
KAOS 0185 Basic Word Processing	40
KACT 0115 Basic Spreadsheets	40
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**330**

COMPUTER & NETWORK TECHNOLOGY

Computer Support Specialist (A+)

The Computer Support Specialist program covers system assembly, computer repair, troubleshooting skills, network support, customer service, and software installation. Various electives and operating systems are offered, including Mac, Windows, Customer Service, Externships, and Linux. Skills obtained in this program lead to a variety of industry certifications including: CompTIA A+ and Network+, Microsoft MCTS and MTA, and Linux.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 15-1041 Computer Support Specialist

QUICK FACTS

Location: Meadowbrook

Program Hours: 615

Application Fee: $40

Tuition: 1,291.50

Student Fees: $92.25

Lab Fees: $50 - $80

Books/Supplies: $339 – $729

Financial Aid: VA, PELL

COURSES & HOURS

CompTIA A+ Certification			
KCMS 0136 Computer Components	75	KCMS 0151 Wired & Wireless	75
KCMS 0140 Storage & Multimedia	75	KCMS 0180 Software & Security	75
		KWRK 0515 Job-Seeking Skills	15
ELECTIVES (CHOOSE AT LEAST 300 HOURS):			
Microsoft MCTS Certification		**Microsoft MTA Certification**	
KNWE 0680 Configuring Windows Clients	75	KCMS 0810 MTA Network Fundamentals	50
KNWE 0780 Maintaining Windows Clients	75	KCMS 0820 MTA Security Fundamentals	50
		KCMS 0830 MTA Windows SVR Administration	50
		KCMS 0840 MTA Windows OS Fundamentals	50
Linux Certification		**CompTIA Network+ Certification**	
KCMS 0415 Linux Administration	75	KCMS 0240 Intro. to Networking Technology	75
		KCMS 0250 Advanced Network Technologies	75
Macintosh Training		**Customer Service**	
KCMS 0500 Mac OS X Essentials	75	KCMS 0350 Customer Service	75
KCMS 0520 Advanced Mac OS	75		
Externships		**CompTIA Security+ Certification**	
KCMS 0201 Basic Externship	75	KCMS 0440 Intro to Security Principles	75
KCMS 0202 Advanced Externship	75	KCMS 0450 Advanced Security Principles	75
Total Program Hours: 615			

Network Administrator (MCTS & MCITP:SA)

This program provides test preparation and course requirements for the Microsoft Certified Technology Specialist (MCTS) and Windows 2008 Microsoft Certified Information Technology Professional: Server Administrator (MCITP:SA) titles. Students receive guidance from certified instructors throughout this intensive “hands-on” training, which includes learning how to install, configure, manage, secure and troubleshoot the latest Windows client and server operating systems and services in a Windows domain environment.

A broad range of client, server, and network management topics are covered in this program including: file and print services, directory services, user and group account management, automation of tasks through scripts, remote management and administration, domain controller management, Terminal Services, audit policies, and more.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 15-1041 Computer Support Specialist
- 15-1071 Network and Computer Systems Administrators

QUICK FACTS

Location: Meadowbrook

Program Hours: 645

Application Fee: $40

Tuition: $1,354.50

Student Fees: $96.75

Lab Fees: $60

Books/ Supplies: $978

Financial Aid: VA, PELL

COURSES & HOURS

KNWE 0680 Configuring Windows Clients	75
KNWE 0780 Maintaining Windows Clients	75
KNWE 0642 Network Infrastructure Introduction	75
KNWE 0742 Network Infrastructure Implementation	75
KNWE 0640 Active Directory Administration	90
KNWE 0740 Active Directory Infrastructure	90
KNWE 0646 Server Administrator I	75
KNWE 0746 Server Administrator II	75
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**645**

COMPUTER & NETWORK TECHNOLOGY

Network Engineer

This training program can be used as a step to gain valuable industry recognized certification titles including Microsoft Certified Technology Specialist (MCTS), Microsoft Certified IT Professional: Server Administrator (MCITP:SA) and Cisco Certified Network Associate (CCNA). Students learn through "hands-on" training, using the latest Microsoft and Cisco course materials to plan, support, manage, and troubleshoot enterprise network environments.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 15-1041.00 Computer Support Specialist
- 15-1071.00 Network and Computer Systems Administrators
- 15-1081.00 Network Systems and Data Communications Analyst

QUICK FACTS

Location: Meadowbrook

Application Fee: $40

Student Fees: $128.25

Books/Supplies: $1,380

Program Hours: 855

Tuition: $1,795.50

Lab Fees: $80

Financial Aid: VA, PELL

COURSES & HOURS	
MCITP:SA/CCNA	
KNIT 0751 Routing & Switching I	90
KNIT 0756 Routing & Switching II	90
KNIT 0760 Routing & Switching III	90
KNIT 0765 Routing & Switching IV	90
KNWE 0642 Network Infrastructure Intro.	75
KNWE 0742 Network Infrastructure Implementation	75
KNWE 0640 Active Directory Administration	90
KNWE 0740 Active Directory Infrastructure	90
KNWE 0646 Server Administrator I	75
KNWE 0746 Server Administrator II	75
KWRK 0515 Job-Seeking Skills	15
Total Program Hours 855	

Network Infrastructure Technician (CCNA)

This program is designed to prepare students for entry-level career opportunities, fulfil continuing education requirements, or complete globally recognized certifications (Cisco Certified Entry Networking/CCENT, and the Cisco Certified Network Associate/CCNA) in order to support, install and maintain computer networking infrastructures. Students learn how to install, configure, operate, and troubleshoot medium-sized router and switched networks, including implementation and verification of connections to remote sites in a Wide Area Network (WAN). The curriculum also includes: basic mitigation of security threats, wireless networking concepts and terminology, and performance-based skills.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 15-1081.00 Network Systems and Data Communication Analysts
- 15-1071.00 Network and Computer Systems

QUICK FACTS

Location: Meadowbrook

Application Fee: $40

Lab Fees: $100 – $110

Program Hours: 825

Tuition: $1,732.50

Books/Supplies: $317 – $557

Student Fees: $123.75

Financial Aid: VA

COURSES & HOURS			
KCMS 0136 Computer Components	75	KCMS 0140 Storage & Multimedia	75
KCMS 0151 Wired & Wireless	75	KCMS 0180 Software & Security	75
KNIT 0751 Routing & Switching I	90	KNIT 0756 Routing & Switching II	90
KNIT 0760 Routing & Switching III	90	KNIT 0765 Routing & Switching IV	90
KWRK 0515 Job-Seeking Skills	15		
Choose one of three elective tracks:			
ELECTIVE TRACK ONE			
KCMS 0240 Intro. to Networking Technology	75	KCMS 0250 Advanced Network Technology	75
ELECTIVE TRACK TWO			
KNIT 0780 Intro. to Wireless Systems	75	KNIT 0785 Advanced Wireless Systems	75
ELECTIVE TRACK THREE (Choose 3 courses)			
KCMS 0810 MTA Network Fundamentals	50	KCMS 0820 MTA Security Fundamentals	50
KCMS 0830 MTA Windows SVR Admin	50	KCMS 0840 MTA Windows OS Fundamentals	50
Total Program Hours: 825			

CULINARY ARTS

Commercial Foods

The Commercial Foods Certificate is a competency based program that includes 30 hours of ServSafe™ curriculum, responsive to business and industry requirements, resulting in an appropriate certificate and articulation, where appropriate, with career and technical education or business courses within the College. Coursework includes instruction in selecting, storing, preparing, and serving food and food products; basic nutrition; sanitation, and food safety; the use and care of commercial equipment; serving techniques; and the operation of recognized food establishments. The program prepares individuals in production and service used in governmental, commercial or independently owned institutional food establishments and related food industry occupations where additional supervised work experience prepares the student for subsequent Certified Culinarian™ (CC) or Certified Pastry Culinarian™ (CPC) certification.

QUICK FACTS

Location:
Larry H. Miller

Program Hours:
930

Application Fee:
$40

Tuition:
$1,953

Student Fees:
$139.50

Lab Fees:
$793

Books/Supplies:
$485.91

Financial Aid:
Pell (pending), VA (pending)

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 35-2014.00 - Cooks, Restaurant
- 35-2015.00 - Cooks, Short Order
- 35-3021.00 - Combined Food Preparation and Serving Workers, Including Fast Food
- 35-2012.00 - Cooks, Institution and Cafeteria
- 35-2021.00 - Food Preparation Workers
- 35-1012.00 - First-Line Supervisors of Food Preparation and Serving Workers
- 35-1011.00 - Chefs and Head Cooks
- 35-2013.00 - Cooks, Private Household

COURSES & HOURS	
KAOS 0170 Computer Concepts	30
KCUL 0001 Hospitality Career Exploration	30
KCUL 0095 Applied Kitchen Mathematics	30
KCUL 0100 CareerSafe™ Steward Station	30
KCUL 0110 NRAEF™ ServSafe™ Certificate	30
KCUL 0120 Breakfast Station	48
KCUL 0130 Skill Development Station	90
KCUL 0140 Pantry Deli Cold Foods Station	48
KCUL 0150 Soup and Sauce Station	72
KCUL 0160 Bakery Foundations	160
KCUL 0170 Fabrication Station	48
KCUL 0180 Cooking Methods Station	48
KCUL 0190 Cooperative Externship	175
KCUL 0200 Final Review and Cert Prep	16
KCUL 0210 Nutrition Certificate	30
KCUL 0310 Hospitality and Human Resource Certificate	30
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**930**

ELECTRONICS TECHNOLOGY

Automation and Instrumentation Technician

This program is designed to support a wide variety of Automated Controls and Instrumentation occupations, involving automated systems, instrumentation, measurements, electric motors, controls systems, robotics, mechatronics, and the application of fluid power systems. In addition, this program follows the guidelines of the International Society of Automation, offering related courses that help to support and prepare for the ISA associate CST examination, as an entrance point. This Core Automation will provide the valued skills set required by industries involved in manufacturing, mining, refineries, building automation, renewable energy, and full-on industrial controls systems. The program starts out with a solid foundation of the basic theory, laws, circuits, and fundamentals of AC/DC, solid-state and digital electronics. In addition, the student will learn how to use various test equipment for trouble-shooting and repair of electronic circuits. This course covers electronic components, how they function, and how to test devices. Students learn the skills required of an Automation and Instrumentation Technician to understand, maintain, troubleshoot, and repair modern electronic automated systems. Coverage of industrial data communications is also included, as well as applications, theory and project based programmable logic controllers.

QUICK FACTS

Location: Westpointe

Program Hours: 1,362

Application Fee: $40

Tuition: $2,860.20

Student Fees: $204.30

Lab Fees: $100

Books/Supplies: $1,306

Financial Aid: Pell, VA (pending)

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3024.01 Robotics Technicians
- 17-3023.01 Electronics Engineering Technicians
- 17-3024.00 Electro-Mechanical Technicians
- 49-2094.00 Electrical and Electronics Repairers, Commercial and Industrial Equipment
- 49-9012.00 Control and Valve Installers and Repairers, Except Mechanical Door
- 49-9071.00 Maintenance and Repair Workers, General
- 49-9099.01 Geothermal Technicians

COURSES & HOURS	
KELA 0190 Assembly and Soldering	24
KET2 0101 Electronics Math	100
KET2 0102 Technical Writing	18
KET2 0103 DC Fundamentals and Circuits	120
KET2 0104 AC Fundamentals and Circuits	120
KET2 0105 Analog Devices and Circuits	160
KET2 0106 Digital Circuits and Applications	160
KET2 0107 Technician Certification	32
KET2 0108 Test and Measurement Instrumentation	60
KAIT 0100 National Electrical Code	12
KAIT 0105 Automated Systems	96
KAIT 0110 Instrumentation and Control Documentation	12
KAIT 0115 Measurement and Control	72
KAIT 0120 Electric Motors and Control Systems	60
KAIT 0125 Fluid Power Systems	60
KAIT 0130 Maintenance of Instruments and Systems	60
KAIT 0135 Troubleshooting Automated Systems	48
KAIT 0140 Industrial Data Communications	36
KET2 0250 Programmable Logic Controllers	96
KAIT 0145 ISA CST Exam Prep (CST)	16
Total Program Hours	**1,362**

ELECTRONICS TECHNOLOGY

Electromechanical Assembly Technician

Students learn to use the latest techniques and tools to ensure high reliability soldering and electromechanical assembly in this multiple part, hands-on program. The Universal Assembly and Repair module covers all aspects of single and double-sided through-hole circuit board technology, including: high reliability soldering, solder theory, assembly and rework techniques of wire connections, terminals, axial lead, DIPS, flatpacks, and multi-leaded components. The surface mount technology assembly and repair module stress safe installation and removal of surface mount components, chip, SOT's, MELF, SOICs, QFPs, and PLCC, using the latest equipment and techniques.

The Electromechanical Project Assembly course ties all of the program elements together resulting in a project with soldering, mechanical, cabling, safety, cleaning, and handling elements. Upon satisfactory completion of this program, students will be able to "accept" or "reject" decisions for the appropriate class/classes of electronic assembly production, based on the acceptability requirements of the IPC-A-610E standard. The IPC/WHIM-A-620B course will train students in modern cabling and harnessing techniques and acceptability requirements of that standard. Students will prepare for the IPC 620 industry certification. The J-Std-001 course will prepare students to pass the IPC JStd-001 exam which includes written and practical elements.

OCCUPATIONS IN THIS AREA

For state and national occupation in-formation, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3024.00 Electromechanical Technicians
- 51-2023.00 Electromechanical Equipment Assemblers

QUICK FACTS

Location: Westpointe

Program Hours: 454

Application Fee: $40

Tuition: $953.40

Student Fees: $68.10

Lab Fees: $95

Books/ Supplies: $597

Financial Aid: VA

COURSES & HOURS			
KET2 0111 Basic Computer Literacy	36	KAIT 0100 National Electrical Code	12
KELA 0172 IPC-A-610 Certification	36	KELA 0151 Universal Assembly & Repair	72
KELA 0161 Surface Mount Technology	72	KEMA 0167 IPC-J-Standard-001E Certification	36
KEMA 0169 IPC/WHMA-A-620B Certification	60	KEMA 0180 Electromechanical Project	70
KEMA 0172 Intro to Manufacturing Process	60	**Total Program Hours**	**454**

Electronics Assembly Technician

QUICK FACTS

Location: Westpointe

Program Hours: 228

Application Fee: $40

Tuition: $478.80

Student Fees: $34.20

Lab Fees: $45

Books/Supplies: $284

Financial Aid: VA

Students learn to use the latest techniques and tools to ensure high reliability soldering in this two-part, hands-on program. The universal assembly and repair module covers all aspects of single and double-sided through-hole circuit board technology, including: high reliability soldering, solder theory; assembly and rework techniques of wire connections; terminals; axial lead; DIPS; flatpacks and multi-leaded components. The Surface Mount Technology (SMT) assembly and repair module stress safe installation and removal of surface-mount components, chip, SOTs, MELF, SOICs, QFPs and PLCC, using the latest equipment and techniques. Upon satisfactory completion of this program, students will be able to "accept" or "reject" decisions for the appropriate class/classes of electronic assembly production, based upon the acceptability requirements of the IPC-A-610E standard.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 51-2022.00 Electrical and Electronic Equipment Assemblers
- 51-2023.00 Electromechanical Equipment Assemblers

COURSES & HOURS			
KET2 0111 Basic Computer Literacy	36	KAIT 0100 National Electrical Code	12
KELA 0172 IPC-A-610E Certification Specialist	36	KELA 0161 Surface Mount Technology	72
KELA 0151 Universal Assembly & Repair	72	**Total Program Hours**	**228**

ELECTRONICS TECHNOLOGY

Electronics Communications Technician

This program provides a solid foundation for students desiring to enter the electronics communications technician field. The program includes the core electronics curriculum and covers the basic theory, laws, and circuits, ad fundamentals of AC/DC, solid-state and digital electronics. Students learn communications theory including radio frequency, digital wireless, fiber optics, microwave, and antennas, as well as learn how to use various test equipment.

QUICK FACTS

Location: Westpointe

Program Hours: 1,310

Application Fee: $40

Tuition: $2,751.00

Student Fees: $196.50

Lab Fees: $120

Books/Supplies: $1,306

Financial Aid: Pell, VA (pending)

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onet center.org/find/and enter the following O*Net code(s):

- 17-3023.01 Electronics Engineering Technicians
- 49-2093.00 Electrical Installers and Repairers

COURSES & HOURS			
KELA 0190 Assembly & Soldering	24	KET2 0101 Electronics Math	100
KET2 0102 Technical Writing	18	KET2 0103 DC Fundamentals and Circuits	120
KET2 0104 AC Fundamentals and Circuits	120	KET2 0105 Analog Devices & Circuits	160
KET2 0106 Digital Circuits and Apps.	160	KET2 0107 Technician Certification	32
KET2 0108 Test and Measurement Instrumentation	60	KECT 0110 Signal Processing	60
KECT 0111 Electronic Communications Systems	120	KECT 0112 Antennas, Transmission Lines and Towers	60
KECT 0141 Microwaves and Radar Systems	72	KECT 0151 Fiber Optics Installer Certification	96
KECT 0113 Telecom and Data Com - TCM Certification	72	KECT 0114 FCC License Preparation – GROL	36
Total Program Hours: 1,310			

Electronics Engineering Technician

This program provides a solid foundation for students who desire to enter the electronics engineering technician field. The program covers basic theory, laws, and circuits, and fundamentals of AC/DC, solid-state and digital electronics. The program covers the functions of electronic components and how to use testing equipment. Troubleshooting techniques, schematic symbols and diagrams are used to enable students to learn the skills required to be an electronic engineering technician. Participants in the program learn to use technician equipment such as: microprocessors, embedded controllers, (including software), schematic capture and circuit simulation, and printed circuit board design.

QUICK FACTS

Location: Westpointe

Program Hours: 1,226

Application Fee: $40

Tuition: $2,574.60

Student Fees: $183.90

Lab Fees: $150

Books/Supplies: $1,130

Financial Aid: Pell, VA (pending)

COURSES & HOURS			
KELA 0190 Assembly and Soldering	24	KET2 0101 Electronics Math	100
KET2 0102 Technical Writing	18	KET2 0103 DC Fundamentals and Circuits	120
KET2 0104 AC Fundamentals and Circuits	120	KET2 0105 Analog Devices and Circuits	160
KET2 0106 Digital Circuits and Apps.	160	KET2 0107 Technician Certification	32
KET2 0108 Test and Measurement Instrumentation	60	KEET 0100 LabVIEW Basics	96
KET2 0171 Microprocessors	96	KET2 0172 Embedded Controllers	96
KEET 0400 Capture and Simulation	72	KEET 0500 Circuit Board Design	72
Total Program Hours: 1,226			

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3023.01 Electronics Engineering Technicians

ELECTRONICS TECHNOLOGY

Electronics Technician

This program provides a solid foundation for students who desire to enter the electronics technician field. The program covers basic theory, laws, circuits, fundamentals of AC/DC, solid-state, and digital electronics. Students learn modern assembly and soldering techniques such as surface-mount and ceramic-soldering techniques. In addition, students learn how to use various test equipment for trouble-shooting and repair of electronic circuits. The course also covers how electronic components function and how to test devices.

COURSES & HOURS	
KELA 0172 IPC-A-610E Certification IPC Specialist	36
KELA 0151 Univ. Assembly & Repair	72
KELA 0161 Surface Mount Technology	72
KET2 0101 Electronics Math	100
KET2 0102 Technical Writing	18
KET2 0103 DC Fundamentals and Circuits	120
KET2 0104 AC Fundamentals and Circuits	120
KET2 0105 Analog Devices and Circuits	160
KET2 0106 Digital Circuits and Apps.	160
KET2 0107 Technician Certification	32
KET2 0108 Test and Measurement Instrumentation	60
Choose Two 96-Hour Elective:	
KECT 0151 Fiber Optics Installer Certification	96
KET2 0171 Microprocessor	96
KET2 0172 Embedded Controllers	96
KET2 0173 Troubleshooting	96
KEET 0100 LabVIEW Basics	96
KET2 0250 Programmable Logic Controllers	96
KEMA 0167 IPC J-STD 001E Certification and KEMA 0169 IPC/WHMA-A-620B Certification	36 60
KET2 0220 Cooperative Externship	96
Total Program Hours	**1,142**

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 17-3024.00 Electro-Mechanical Technician
- 49-2011.00 Computer, Automated Teller, and Office Machine Repairer
- 49-2094.00 Electrical and Electronics Repairer, Commercial and Industrial Equipment
- 49-2097.00 Electronic Home Entertainment Equipment Installers and Repairers
- 49-9062.00 Medical Equipment Repairer

QUICK FACTS

Location: Westpointe

Program Hours: 1,142

Application Fee: $40

Tuition: $2,398.20

Student Fees: $171.30

Lab Fees: $100 - $170

Books/Supplies: $1,150

Financial Aid: Pell, VA

HEALTH CARE TECHNOLOGY

Certified Nursing Assistant

This program is designed to provide students with the skills necessary to meet the State of Utah nursing assistant certification requirements. Students completing the program will learn the responsibilities of a certified nursing assistant, and how to provide for the physical, physiological, and psychological needs of patients in a hospital or long term facility. The curriculum includes an overall introduction to human relations, anatomy, physiology, and bacteriology, as well as consideration of body mechanics, disease processes, and therapeutic approaches. Universal precautions are taught throughout the program, and emphasis is placed on the need to protect the patient, as well as the nursing assistant.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 31-1011.00 Home Health Aids
- 31-1012.00 Nursing Aids, Orderlies, and Attendants
- 31-1013.00 Psychiatric Aid
- 31-2022.00 Physical Therapist Aid
- 39-9021.00 Personal and Home Care Aids

QUICK FACTS

Location: Jordan

Program Hours: 130

Application Fee: $40

Tuition: $273.00

Student Fees: $19.50

Lab Fees: $20

Books/Supplies: $230

Financial Aid: VA

COURSES & HOURS	
KCNA 0100 Patient Care, Theory	74
KCNA 0110 Skills Lab	20
KCNA 0120 Patient Care, Long-Term	24
KCNA 0140 Patient Care, Acute	12
Total Program Hours	**130**

Stand-Alone Course Offerings:	
KCNA 0010 CPR for Health Care Professional	4

Clinical Lab Assistant

This program will prepares students to work as a clinical lab assistant. Clinical lab assistants specialize in conducting medical tests on specimens and samples, and typically work clinics, doctor's offices, and hospitals, performing various laboratory and clinical tasks. Clinical tasks of this occupation include: taking medical histories, recording vital signs, explaining procedures, preparing patients for procedures, and assisting physicians while they draw blood or collect samples. Laboratory tasks include preparing and analyzing specimens, performing basic tests, disposing of contaminated supplies, and sterilizing medical instruments.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 29-2012.00 Medical and Clinical Laboratory Technicians

QUICK FACTS

Location: Jordan

Program Hours: 345

Application Fee: $40

Tuition: $724.50

Student Fees: $51.75

Lab Fees: $130

Books/Supplies: $414

Financial Aid: VA (pending)

COURSES & HOURS	
KAOS 0110 Beginning Keyboarding	20
KAOS 0170 Computer Concepts	30
KCMA 0105 Working in Health Care Environment	70
KCMA 0065 Medical. Office Communications and Records	55
KCMA 0115 Medical Assisting Procedures I	95
KCMA 0125 Medical Assisting Procedures II	60
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**345**

HEALTH CARE TECHNOLOGY

Clinical Medical Assisting

Clinical medical assistants perform routine clinical tasks in clinics, doctor's offices, and hospitals. Clinical duties may include collecting medical histories, recording vital signs, explaining procedures, preparing patients for examinations, and assisting physicians during exams.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 31-9092.00 Medical Assistants

QUICK FACTS

Location: Jordan

Program Hours: 950

Application Fee: $40

Tuition: $1,995.00

Student Fees: $142.50

Lab Fees: $145

Books/Supplies: $414

Financial Aid: Pell, VA

COURSES & HOURS	
KAOS 0110 Beginning Keyboarding	20
KAOS 0170 Computer Concepts	30
KAOS 0250 Customer Service Life Skills	60
KCMA 0105 Working in Health Environment	70
KCMA 0065 Medical Office Communications and Records	55
KCMA 0115 Medical Assisting Procedures I	95
KCMA 0125 Medical Assisting Procedures II	60
KCMA 0135 Medical Assisting Procedures III	110
KCMA 0165 Intro. to Insurance/Billing Procedures	40
KCMA 0200 Assisting with Office Procedures	220
KCMA 0420 Final Review & Certification Preparation	10
KWRK 0515 Job-Seeking Skills	15
KCMA 0431 Medical Assisting Externship	165
Total Program Hours	**950**

Health Information Specialist

This non-credit training program prepares students to work in the medical records offices of hospitals, larger medical clinics, doctors' offices, and insurance companies. It provides basic clerical training in computer concepts, Windows, Internet, e-mail, medical filing, keyboarding, word processing, ten-key, medical terminology, medical accounting/patient scheduling, and electronic health records. Special emphasis is placed on customer service and life skills training. This curriculum includes a 120-hour cooperative externship at a medical facility in the medical records department.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 43-6013.00 Medical Secretary

QUICK FACTS

Location: South City

Program Hours: 678

Application Fee: $40

Tuition: $1,423.80

Student Fees: $101.70

Lab Fees: $49.50

Books/Supplies: $675.70

Financial Aid: Pell, VA

COURSES & HOURS	
KAOS 0115 Keyboarding/Skillbuilding	80
KAOS 0145 Basic Ten-Key	25
KAOS 0170 Computer Concepts	30
KAOS 0185 Basic Word Processing	40
KACT 0115 Basic Spreadsheets	40
KAOS 0225 Intermediate Business Communications	58
KAOS 0250 Customer Service Life Skills	60
KWRK 0515 Job-Seeking Skills	15
KMCB 0110 Medical Filing	15
KMCB 0120 Medical Terminology	30
KMCB 0130 Anatomy	40
KMCB 0170 ICD-10 Coding	45
KMCB 0140 Medical Office Software	70
KMCB 0165 Intro to Electronic Health Records	50
KMCB 0241 Cooperative Externship 2	80
Total Program Hours	678

HEALTH CARE TECHNOLOGY

Medical Coding & Billing

This non-credit training program prepares students to pass the National Medical Coding Certification Exam (CPC-A) and work in outpatient medical coding areas of hospitals, larger medical clinics, medical supply companies and doctors' offices. It provides basic clerical training in computer concepts, Internet, e-mail, keyboarding/skill building, word processing, ten-key, medical filing, medical terminology, insurance billing, medical accounting/patient scheduling software, outpatient coding, and spreadsheets. Emphasis is placed on customer service and life skills.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 29-2071.00 Medical Records and Health Information Technicians
- 43-3021.02 Billing Cost and Rate Clerk

QUICK FACTS

Location: South City

Program Hours: 803

Application Fee: $40

Tuition: $1,686.30

Student Fees: $120.45

Lab Fees: $354.50

Books/Supplies: $1,146.00

Financial Aid: Pell, VA

COURSES & HOURS	
KAOS 0115 Keyboarding/Skillbuilding	80
KAOS 0145 Basic Ten-Key	25
KAOS 0170 Computer Concepts	30
KAOS 0185 Basic Word Processing	40
KAOS 0225 Intermediate Business Communication	58
KACT 0125 Comprehensive Spreadsheets	80
KAOS 0250 Customer Service Life Skills	60
KWRK 0515 Job-Seeking Skills	15
KMCB 0110 Medical Filing	15
KMCB 0120 Medical Terminology	30
KMCB 0130 Anatomy	40
KMCB 0140 Medical Office Software	70
KMCB 0200 Outpatient Medical Coding	150
KMCB Medical Insurance/Pharmacology	30
KMCB 0210 Cooperative Externship I	80
Total Program Hours	**803**

Medical Office Administration

The Medical Office Administration program prepares students to work in many different businesses in the health care industry including doctor's offices, clinics, and hospitals. Medical office administrative assistants help with many business functions, such as storing, retrieving, and integrating information for staff and patients, assisting with patient intakes, basic accounting and insurance filing, general record keeping and file maintenance, and other front office tasks.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 43-1011.00 First-Line Supervisors/Managers of Office and Administrative Support Workers

QUICK FACTS

Location: Jordan Campus

Program Hours: 940

Application Fee: $40

Tuition: $1974.00

Student Fees: $141

Lab Fees: $49.50

Books/Supplies: $794

Financial Aid: Pell, VA

COURSES & HOURS	
KAOS 0115 Keyboarding/Skillbuilding	80
KAOS 0170 Computer Concepts	30
KAOS 0250 Customer Service Life Skills	60
KAOS 0185 Basic Word Processing	40
KAOS 0245 Comprehensive Business Communications	90
KAOS 0145 Basic Ten-Key	25
KACT 0115 Basic Spreadsheet	40
KMOA 0111 Medical Terminology	70
KMOA 0145 Anatomy and Physiology	50
KMOA 0120 Medical Law & Ethics	60
KMOA 0130 Psychology for Healthcare	30
KMOA 0155 Medical Office Procedures I	60
KMOA 0170 Medical Office Procedures II	60
KMOA 0180 Medical Office Procedures III	60
KMOA 0101 First Aid/CPR	10
KWRK 0515 Job Seeking Skills	15
KMOA 0211 Med Office Externship	160
Total Program Hours	**940**

MANUFACTURING TECHNOLOGY

Manual Machinist

This program prepares students for skilled positions as an entry-level manual machinist. Manual machinists set up and operate a variety of machine tools to produce precision parts and instruments. Through hands-on projects and computer-assisted instruction, students learn the basic skills needed to fabricate, modify, or repair mechanical and/or precision instruments. This occupation may also require eligible candidates to fabricate and modify parts to make or repair machine tools or maintain industrial machines.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 51-4041.00 Machinists
- 51-4081.01 Combination Machine Tool Setters and Set-Up Operators, Metal and Plastic

QUICK FACTS

Location: Taylorsville Redwood

Program Hours: 450

Application Fee: $40

Tuition: $945.00

Student Fees: $67.50

Lab Fees: $60

Books/ Supplies: $225.00

Financial Aid: VA

COURSES & HOURS	
KMAT 0010 Machine Shop Introduction	25
KMAT 0050 Blueprint Reading	50
KMAT 0205 Basic Lathe	60
KMAT 0250 Advanced Lathe	60
KMAT 0105 Basic Mill	60
KMAT 0155 Advanced Mill	60
KMAT 0305 Basic Grinding	60
KMAT 0355 Advanced Grinding	60
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**450**

Welding

Students enrolled in this program are provided opportunities to learn entry-level-job skills in welding processes most commonly used in today's industries. Instruction and practice is provided for oxy-acetylene, shielded-metal-arc, gas-metal-arc, flux-cored-arc and gas-tungsten-arc welding. Instruction also covers theory and applications of processes, encompassing both ferrous and non-ferrous metals. Safe practices are emphasized throughout the program. Additional instruction is provided in mathematics for welding and blueprint reading. Students will also have the opportunity to learn techniques for welder performance qualifications and certification testing. Thermal cutting and gouging techniques using oxy-fuel, plasma-arc and arc-air processes are also covered.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 51-4121.01 Welders, Production
- 51-4121.02 Welders and Cutters

QUICK FACTS

Location: Taylorsville Redwood

Program Hours: 1,155

Application Fee: $40

Tuition: $2,425.50

Student Fees: $173.25

Lab Fees: $300

Books/Supplies: $506

Financial Aid: PELL, VA

COURSES & HOURS	
KWLD 0115 Intro to Welding & Lab Safety	10
KWLD 0126 Oxy-Acetylene Welding	120
KWLD 0136 Basic Shielded Metal Arc Welding	190
KWLD 0235 Advanced Shielded Metal Arc Welding	150
KWLD 0145 Gas Metal Arc Welding (GMAW)	160
KWLD 0165 Blueprint Reading for Welders	100
KWLD 0170 Flux Cored Arc Welding (FCAW)	170
KWLD 0180 Gas Metal Arc Welding (GTAW)	140
KWLD 0190 Math for Welders	100
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**1,155**

MEDIA & WEB DESIGN TECHNOLOGY

Graphic Designer

In the Graphic Design program, students learn to communicate with employees, customers, and other businesses through printed material, websites, electronic presentations, videos and other related media. This program is designed to provide students with a thorough understanding of the skills and visual literacy needed for employment in the graphic design media industry. The courses will cover visual language, composition, typography, photography, color, and graphic communication. This program provides comprehensive training in software applications and skills to prepare students for employment requiring design responsibilities in a variety of organizational settings.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 27-1024.00 Graphic Designers

QUICK FACTS

Location: South City	**Application Fee:** $40	**Student Fees:** $96.75	**Books/Supplies:** $400
Program Hours: 645	**Tuition:** $1,354.50	**Lab Fees:** $70	**Financial Aid:** Pell, VA

COURSES & HOURS	
KMDT 0020 Graphic Design Applications	90
KMDT 0031 Design Principles	90
KMDT 0230 Image Editing	90
KMDT 0040 Computer Illustration	90
KMDT 0320 Desktop Publishing Applications	90
KMDT 0010 Media Design Introduction	90
KMDT 0171 Electronic Portfolio	90
KWRK 0515 Job-Seeking Skills	90
Total Program Hours	**645**

Media Design Technology

Businesses rely on printed materials, websites, electronic presentations, videos, and other related media to communicate with employees, customers, and other businesses. The Media Design Technology program teaches students how to use leading computer applications to prepare messages using a variety of platforms. This program also teaches the theory and fundamentals of developing effective communication pieces in each media format. Students can choose to focus on one particular discipline or learn skills in several different multimedia fields in preparation for employment in skilled or semi-skilled positions.

Students in this program choose one or more tracks depending on what areas they would like to specialize in. See the instructor for additional information.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 27-1014.00 Multi-Media Artists and Animators

QUICK FACTS

Location: South City	**Application Fee:** $40	**Student Fees:** $191.25	**Books/ Supplies:** $550
Program Hours: 1,275	**Tuition:** $2,677.50	**Lab Fees:** $125	**Financial Aid:** Pell, VA

COURSES & HOURS			
KMDT 0010 Media Design Introduction	90	KMDT 0020 Graphic Design Applications	90
KMDT 0031 Design Principles	90	KMDT 0311 Image Editing	90
KMDT 0040 Computer Illustration	90	KMDT 0111 Web Design Fundamentals	120
KWRK 0515 Job-Seeking Skills	15		
Choose at least 690 hours:			
KMDT 0101 Design & Internet Technology	90		
KMDT 0120 Web Design Authoring	120		
KMDT 0140 Web Design Animation	90		
KMDT 0171 Electronic Portfolio	90		
KMDT 0205 Interactive Media Scripting	90		
KMDT 0210 Web Developer Final Project	90		
KMDT 0220 Web Programming Introduction	90		
KMDT 0230 Web App. Scripting I	120		
KMDT 0240 Web App. Scripting II	120		
KMDT 0130 Web Authoring Applications	90		
KMDT 0320 Desktop Publishing Applications	90		
KMDT 0520 Video Production I	90		
Total Program Hours	**1,275**		

MEDIA & WEB DESIGN TECHNOLOGY

Web Programmer

This program covers basic and advanced scripting and programming skills needed to create web sites and applications that are dynamic, data-driven, and interactive. The courses include techniques to build web sites that ensure functionality, security, and ease of use. Instruction includes debugging, validating, cookies, sessions, server and client-side issues. The Web Programmer certificate is designed to provide you with comprehensive training in scripting, software applications, and skills to prepare you for employment doing web programming tasks in a variety of organizational settings.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/ and enter the following O*Net code(s):

- 15-1099.04 Web Developers
- 15-1021.00 Computer Programmers

QUICK FACTS

Location: South City
Application Fee: $40
Student Fees: $114.75
Books/Supplies: $458
Program Hours: 765
Tuition: $1,606.50
Lab Fees: $75.00
Financial Aid: Pell, VA

COURSES & HOURS	
KMDT 0020 Graphic Design Applications	90
KMDT 0111 Web Design Fundamentals	120
KMDT 0120 Web Design Authoring	120
KMDT 0230 Web Applications Scripting I	120
KMDT 0240 Web Applications Scripting II	120
KMDT 0205 Interactive Media Scripting	90
KMDT 0210 Web Developer Final Project	90
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**765**

Web Site Designer

Businesses rely on printed materials, websites, electronic presentations, videos, and other related media to communicate with employees, customers, and other businesses. This program is designed to teach students with the necessary skills to design, create, and publish dynamic interactive web sites using the latest web design authoring software. The courses will provide students with the skills to produce professional user-friendly web sites that incorporate efficiency of design, and ease of maintenance. The Web Site Designer program provides comprehensive training in software applications and skills to prepare participants for a career in web design in a variety of organizational setup.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 15-1099.04 Web Developers

QUICK FACTS

Location: South City
Application Fee: $40
Student Fees: $101.25
Books/Supplies: $407
Program Hours: 675
Tuition: $1,417.50
Lab Fees: $65
Financial Aid: Pell, VA

COURSES & HOURS	
KMDT 0020 Graphic Design Applications	90
KMDT 0031 Design Principles	90
KMDT 0311 Image Editing	90
KMDT 0130 Web Authoring Applications	90
KMDT 0320 Desktop Publishing Applications	90
KMDT 0111 Web Design Fundamentals	120
KMDT 0171 Electronic Portfolio	90
KWRK 0515 Job-Seeking Skills	15
Total Program Hours	**675**

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801-957-3354 • SAT@slcc.edu • www.slcc.edu/appliedtech

PROFESSIONAL DRIVING

Professional Truck Driving

This intensive program is designed to prepare students for an entry-level truck driving position as a Class "A" CDL driver. The program has two courses with units of study that cover basic and advanced operating practices, defensive driving, inspections, life skills and essential activities such as trip planning, map reading, hours of service, cargo handling and an employment workshop.

COURSES & HOURS	
KPDR 0510 Truck Driving Class A CDL	160
KPDR 0521 Extended Driving Course	80
Total Program Hours	**240**

Stand-Alone Course Offerings:	
KCDL 0100 CDL Learner's Permit	16
KCDL 0120 CDL Upgrade	80

QUICK FACTS

Location: Meadowbrook
Tuition: $504.00
Books/Supplies: $87
Program Hours: 240
Student Fees: $36
Financial Aid: VA
Application Fee: $40
Lab Fees: $1,950

SKILLED SERVICE TECHNOLOGY

Air Conditioning/Heating/Refrigeration

This is an entry-level program for prospective technicians and is designed to prepare students for future employment in the heating, ventilation, air conditioning, refrigeration (HVACR) industry. The program consists of six major sections of required core training and three elective courses that allow students to determine an area of study to specialize in. Throughout the training students will be given the opportunity to demonstrate and certify their skills by participating in nationally recognized tests which provide "employment ready" certifications.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 49-9021.00 Heating, Air Conditioning, Refrigeration Mechanics and Installers
- 49-9021.01 Heating and Air Conditioning Mechanics
- 49-9021.02 Refrigeration Mechanics

QUICK FACTS

Location: Meadowbrook
Tuition: $2016
Books/Supplies: $885
Program Hours: 960
Student Fees: $144
Financial Aid: Pell, VA
Application Fee: $40
Lab Fees: $110

COURSES & HOURS	
KACC 0100 Safety Fundamentals	20
KACC 0105 Green Energy Systems	40
KACC 0200 Fundamentals of Electricity	180
KACC 0220 Electrical Applications	140
KACC 0230 HVAC Fundamentals	20
KACC 0240 Applied Combustion Theory	80
KACC 0250 Applied Refrigeration Theory	70
KACC 0260 Automotive A/C Service	10
KACC 0300 Residential HVAC Systems	160
KACC 0290 Employment Workshop	0-10
Choose Two:	
KACC 0400 Light Commercial HVAC Systems	80
KACC 0420 Commercial HVAC Systems	80
KACC 0440 Commercial Heat/Refrigeration	80
Choose One:	
KACC 0500 Capstone Project	80
KACC 0990 HVAC Externship	80-240
Total Program Hours	**960**

SKILLED SERVICE TECHNOLOGY

Diesel Service Technician

This program is designed to train students in diesel systems technology. Technicians in this field repair and maintain diesel equipment, such as trucks, buses, construction and mining equipment. This includes bulldozers, earth movers, cranes and other diesel-power equipment. Diesel technicians use testing equipment like dynamometers, which measure engine power. Computer based diagnostic equipment is also used to assist in diagnoses of engines, transmissions, and other vehicle based systems.

OCCUPATIONS IN THIS AREA

For state and national occupation information, visit http://online.onetcenter.org/find/and enter the following O*Net code(s):

- 49-3031.00 Bus and Truck Mechanics and Diesel Engine Specialists
- 49-3042.00 Mobile Heavy Equipment Mechanics

QUICK FACTS

Location: Meadowbrook

Program Hours: 745

Application Fee: $40

Tuition: $1564.50

Student Fees: $111.75

Lab Fees: Contact Advisor

Books/Supplies: Varies

Financial Aid: Pell (pending), VA (pending)

COURSES & HOURS	
KAOS 0170 Computer Concepts	30
KHVT 0100 Safety and Basic Shop Skills	30
KHVT 0110 Basic Diesel	110
KHVT 0120 Basic Engine Performance	90
KHVT 0130 PM Brakes	90
KHVT 0140 P M Chassis	90
KHVT 0150 Drivetrains and Fluid Drives	110
KHVT 0160 Drivetrains Gear Drives	90
KHVT 0170 H.D. Elec. Circuits	90
KWRK 0515 Job-seeking Skills	15
Total Program Hours	**745**

Coming July 2015

SLCC APPLIED TECHNOLOGY PROGRAMS

FLEXIBLE ADULT LEARNING WITH ACCELERATED COMPLETION TIME

Our students have clear and well-defined education and career goals. Our Applied Technology programs have made us a leader in competency-based education and allow students like Jimena to:

- Choose one of two pathways:
  1. Earn their certificate and transition to their career
  2. Have their competencies transferred towards an Associate degree (coming soon)
- Begin most Mondays throughout the year
- Sign up for classes that meet their schedules
- Allows students to work at an accelerated pace
- Reduce time in school by completing assessments in areas they already know
- Lower costs by only paying for the actual time it takes to complete their program
- Meaningful contact with instructors through one-on-one sessions weekly
- Eligible for Pell Grants in certain programs

COMPETENCY-BASED EDUCATION

Student learning is demonstrated by mastery of a competency through written and practical assessments, allowing the student to progress through modules at their own pace.

PRIOR LEARNING ASSESSMENT

Built in recognition of prior learning; students can complete assessments (competencies) in areas where they have experiential knowledge.

ARTICULATED PROGRAMS (*COMING SOON*)

Student pathways to further their education will be available through articulation agreements that allow students to transfer their competencies towards an Associate degree.



Salt Lake Community College

Get there *faster* from here.

- Recognized industry leader in competency-based education
- Member of CBEN (Competency-Based Education Network)
- Recipient of the 4th round of the TAACCCT Grant from the Department of Labor
- Selected to attend the prestigious White House Summit on Community Colleges

www.slcc.edu/appliedtech

AA/EO Institution

Applied Technology

Jordan Campus
3491 W 9000 S
West Jordan, Utah 84088

Larry H. Miller Campus
9750 South 300 West
Sandy, Utah 84070

Meadowbrook Campus
250 West 3900 South
Salt Lake City, Utah 84107-1459

South City Campus
1575 South State Street
Salt Lake City, Utah 84115-1610

Taylorsville Redwood Campus
4600 South Redwood Road
P. O. Box 30808
Salt Lake City, Utah 84130-0808

Westpointe Center
2150 West Dauntless Avenue (1000 N.)
Salt Lake City, Utah 84116

Phone: 801-957-3354
Fax: 801-957-3315

E-mail: SAT@slcc.edu
www.slcc.edu/appliedtech

COURSE ABBREVIATIONS

Course Numbering Information:
Courses at SLCC are identified by an alphabetic prefix (two to four letters) followed by a four-digit number. Numbers beginning with a "1" generally indicate a course designed primarily for freshmen (such as ENGL 1010); numbers beginning with a "2" generally indicate courses designed primarily for sophomores (such as MATH 2010); numbers beginning with a "0" generally indicate preparatory courses that are non-transferable (such as WRTG 0990).

ACCT	Accounting
ACR	Automotive and Related Technologies
AERO	Aerospace (Air Force ROTC)
AMTT	Aerospace/Aviation Maintenance
ANTH	Anthropology
APPR	Apprenticeship
AR	Auto Repair
ARB	Arabic
ARCH	Architectural Technology
ART	Visual Art and Design
ARTH	Art History
ASL	American Sign Language
AUTO	Automotive and Related Technologies
AVAD	Aviation Administration
BIOL	Biology
BLA	Brick Mason JATC Technology
BMAN	Biomanufacturing
BTEC	Biotechnology
BUS	Business
CCLA	Construction Craft Laborer JATC Tech.
CEAB	Accelerated Block
CEAE	Alternative Energy (CE)
CEAL	Transition to Teaching (CE)
CEAT	CDL Tester Training (CE)
CEBC	Small Business Development (CE)
CEBI	Business Networking (CE)
CECA	Careers
CECD	Computerized Drafting (CE)
CECI	Competitive Intelligence
CECO	Composites (CE)
CECP	Creative Problem Solving
CECT	Construction Training (CE)
CECW	Computer Workshops (CE)
CEEI	Personal Enrichment (CE)
CEEM	Energy Management (CE)
CEEN	Civil/Environmental Engineering
CEET	Emergency Training
CEGC	Green Construction (CE)
CEGE	General Education
CEGM	Natural Gas Measurement (CE)
CEGN	Genealogy (CE)
CEHS	Health Science (CE)
CEHW	Health & Wellness (CE)
CEHZ	Photovoltaic Systems (CE)
CEIB	International Business (CE)
CEIP	Institute for Public Safety (CE)
CEIS	Information Science
CEKM	Knowledge Management
CELN	Lineworker Apprenticeship (CE)
CEMA	Medical Coding (CE)
CEMD	Medical Device
CEME	Meter Apprenticeship (CE)
CEMS	Notary Training (CE)
CEPT	Pharmacy Technician
CESB	Family Child Care Business (CE)
CESG	Energy Sector Training (CE)
CESN	Substation Apprenticeship (CE)
CESO	Exploring Sonography (CE)
CESP	State Partnership
CESS	UHP Inspection Training (CE)
CEST	Employment Skills Training (CE)
CETG	Personal Enrichment (CE)
CETR	UDOT Transportation Training (CE)
CEWB	Women in Business (CE)

CHE Chemical Engineering
CHEF Culinary Arts
CHEM Chemistry
CHI Chinese
CIS Computer Information Systems
CJ Criminal Justice
CMA Cement Mason JATC Technology
CMGT Construction Mgt / Sustainable Building
CMI Cement Mason Independent Tech.
COMM Communication
CPA Carpentry JATC Technology
CPE Computer Engineering
CPI Carpentry Independent Technology
CPS Creative Problem Solving
CS Computer Science
CSIS Computer Sciences & Information Sys.
CTEL CTE Leadership & Teambuilding
DANC Dance
DE Developmental Education
DH Dental Hygiene
DISP Aircraft Dispatcher
DMS Diagnostic Medical Sonography
DST Diesel Systems Technology
DSTA Diesel Systems JATC Technology
ECON Economics
EDDT Engineering Drafting and Manu. Tech.
EDU Education
EE Electrical Engineering
EET Electronics Engineering Technology
EGMT Energy Management
ELI Electrical Independent Technology
ELTA Electrical JATC Technology
ELTR Electronics Technology
ENGL English
ENGR Engineering
ENVT Environmental Technology
ESL English as a Second Language, Level 4
ETHS Ethnic Studies
EVNT Event Management
FA Fine Arts
FASH Fashion Design
FHS Family & Human Studies
FIN Finance and Credit
FLM Film
FMTA Facilities Maintenance JATC Technology
FRN French
GEN Genealogy
GEO Geology
GEOG Geography
GER German
HCCA Heavy Civil Carpenter JATC Technology
HIST History
HIT Health Information Technology
HLAC Health & Lifetime Activities
HLTH Health
HS Health Science
HSEM Homeland Security/Emergency Mgt
HSS Human Services Specialist
HUMA Humanities
HVAC Heating, Ventilation, and Air Cond.
IND Industry Training
INTD Interior Design
INTL International Studies
INTR ASL/English Interpreting
ISA Ironworkers JATC Technology
ISCI Competitive Intelligence
ISIS Information Studies
ISKM Knowledge Management
ITL Italian
JPN Japanese
KABM Basic Math (SAT)
KABR Basic Reading (SAT)
KACC Heating, Ventilation, & Air Cond. (SAT)
KACT Accounting Skills (SAT)
KAIT Automation & Instrumentation (SAT)
KALL Integrated Learning Lab (SAT)
KAOS Office Skills (SAT)
KCDL CDL Training (SAT)
KCMA Clinical Medical Assisting (SAT)
KCMS Computer Support (SAT)
KCNA Certified Nursing Assistant (SAT)
KECT Electronics Technology (SAT)
KEET Electronics Engineering Tech. (SAT)
KELA Electronics (SAT)

KEMA Electromechanical Assembly (SAT)
KESL Engl. as a Second Lang., Levels 1-3 (SAT)
KET2 Electronics (SAT)
KFLT Fork Lift Training
KGED General Educational Development (SAT)
KHUC Health Unit Coordinator (SAT)
KHVT Heavy Duty Diesel (SAT)
KMAT Manual Machining (SAT)
KMCB Medical Coding and Billing (SAT)
KMDT Media Design Technology (SAT)
KMOA Medical Office Administration (SAT)
KNIT Network Infrastructure Tech. (SAT)
KNNA Nutrition Assistant (SAT)
KNWE Network Engineering Technology (SAT)
KOLL Open Learning Lab (SAT)
KPDR Professional Truck Driver (SAT)
KWLD Welding Technology (SAT)
KWRK Workplace Skills (SAT)
LAND Landscape JATC Technology
LE Learning Enhancement
LINE Lineman Apprentice
MA Medical Assistant
MATH Mathematics
MCCT Machining CAD/CAM Technology
MEEN Mechanical Engineering
MET Meteorology
METE Meter Apprentice
MGT Management
MKTG Marketing Management
MLS Military Science (Army ROTC)
MORT Mortuary Science
MOTO Motorcycle/Outdoor Pwr Equip Tech
MSE Materials Science Engineering
MUSC Music
NAV Navajo
NDT Non-Destructive Testing Technology
NSG Nursing
OTA Occupational Therapy Assistant
PED Paraeducation
PFA Plumber/Pipefitter JATC Technology
PHAR Pharmacy Technician
PHIL Philosophy
PHYS Physics
PILT Aviation Technology/Professional Pilot
PLI Plumbing Independent Technology
PLS Paralegal Studies
POLS Political Science
POR Portuguese
PSY Psychology
PTA Physical Therapist Assistant
RADS Radiologic Technology
RDG Reading
RFA Refrigeration JATC Technology
RUS Russian
SAM Samoan
SHA Stagehands JATC Technology
SOC Sociology
SPN Spanish
SUBE Substation Apprentice
SURG Surgical Technology
SVT Surveying & Geomatics
SW Social Work
TECH Technology
THEA Theater
TNG Tongan
TRVL Travel Planner
VOC Visual Art Co-op Education
WLD Welding
WLDA Welding JATC Technology
WRTG Writing

ACCT 1110 – Financial Accounting I **3 cr**

An introduction to the concepts and methods underlying the preparation of financial statements using generally accepted accounting principles. Topics covered include the accounting cycle, cash and inventories.

ACCT 1115 – Financial Acctg I Workshop **1 cr**

Coreq: ACCT 1110. An optional supplement to ACCT 1110. It will review topics covered in ACCT 1110 including the accounting cycle, cash, and inventories.

ACCT 1120 – Financial Accounting II **3 cr**

Prereq: ACCT 1110. Continuation of concepts and methods used in preparation of financial statements using generally accepted accounting principles. Includes long-term assets, liabilities, business entities, statement of cash flow and financial statement analysis.

ACCT 1125 – Financial Acctg II Workshop **1 cr**

Coreq: ACCT 1120. An optional supplement to ACCT 1120. It will review topics covered in ACCT 1120 including receivables, plant and equipment, liabilities and business entities.

ACCT 1280 – Acctg. Information Systems I **3 cr**

Prereq: ACCT 1110 and CIS 2410, or both concurrently. An applications approach to classifying, recording, summarizing and reporting transactions encountered in a typical business. Payroll and payroll tax reporting will also be emphasized using both manual and computerized systems.

ACCT 1290 – Accounting Information Systems **3 cr**

Prereq: ACCT 1110 or ACCT 2010. An applications approach to classifying, recording, summarizing, & reporting transactions encountered in a typical business. Payroll & payroll tax reporting will also be emphasized using both manual & computerized systems.

ACCT 2000 – Accounting CO-OP Education **1-4 cr**

Prereq: Complete 2 semesters in the Accounting program. Offers supervised work experience in an industrial or governmental environment related to accounting. Credit is awarded for successful completion of specific learning objectives that provide new learning related to accounting.

ACCT 2010 – Survey of Financial Accounting **3 cr**

A broad view of accounting's role in providing information to external users of financial information. This primary focus is the use of financial statements by investors, creditors, and other entities outside of the organization.

ACCT 2015 – Survey Fin Acctg Workshop **1 cr**

Coreq: ACCT 2010. An optional supplement to ACCT 2010. It will review topics covered in ACCT 2010 with a primary focus on the use of financial statements by investors, creditors, and other entities outside of the organization.

ACCT 2020 – Managerial Accounting **3 cr**

Prereq: ACCT 1110 or ACCT 2010. Recommended Prereq: CSIS 2010. Management accounging is the study of developing and using accounting information essential for management decisions. Topics covered are job costing, activity based costing, inventory management, cost-volume-profit relationships, operating budgets, relevant costs for non-routine decisions, and capital investment decisions.

ACCT 2025 – Managerial Accounting Workshop **1 cr**

Coreq: ACCT 2020. This course is an optional supplement to ACCT 2020. It will review topics covered in ACCT 2020.

ACCT 2050 – Governmental Accounting **3 cr**

Prereq: ACCT 1110 or ACCT 2010. Covers the essentials of fund accounting, the structure used by governments. Governmental fund types, proprietary fund types, and fiduciary fund types and preparation of financial statements are covered, also not-for-profit Accounting.

ACCT 2310 – Intermediate Accounting I **4 cr**

Prereq: ACCT 1120; or ACCT 2010 with instructor approval. Provides an in-depth study of financial theory and practice. Topics include the accounting cycle, financial statement preparation, revenue recognition and income determination, current assets, current liabilities and time value of money.

ACCT 2410 – Intermediate Accounting II **4 cr**

Prereq: ACCT 2310. A continuation of ACCT 2310. Topics include property, plant and equipment, other long-term assets, investments, debt securities, leases, deferred taxes, stockholders equity, and financial statement analysis.

ACCT 2510 – Acctg. Information Systems II **3 cr**

Prereq: ACCT 1280. A continuation of ACCT 1280 using a second fully integrated accounting package. The use of electronic spreadsheets in the accounting discipline will also be emphasized.

ACCT 2520 – Federal Income Tax **3 cr**

Prereq: ACCT 1120 or ACCT 2010. Introduction to federal and state income taxation for individuals, corporations and partnerships. The student will become familiar with current income tax laws and preparation of returns for the majority of taxpayers.

ACCT 2530 – Cost Accounting **3 cr**

Prereq: ACCT 2020. Covers the basic principles of cost accounting systems used in manufacturing and service industries. Topics include job order and process cost systems, activity-based costing methods, standard costing, budgeting and reporting.

ACCT 2540 – Accounting in Practice **3 cr**

Prereq: ACCT 2410 or concurrently. Introduces the theoretical and practical applications of preparing accurate and complete accounting records and reports. Principles of internal control and generally accepted accounting principles will be emphasized by participation in relevant case studies.

ACCT 2910 – STUDENTfacturED Internship **2-4 cr**

Prereq: ACCT 1110, 1120, and 2020 and instructor approval; or ACCT 2010 and 2020 and instructor approval. Provides contextual, real-world experience, and opportunity to reinforce previously learned concepts, skills, and critical thinking ability related to business and technical job functions typical of biotech manufacturing companies.

ACCT 2950 – Accounting Lecture Series **1 cr**

Presents a forum where students will be introduced to topics of current interest and demand in the field of accounting. Topics studied will vary from semester to semester.

ACCT 2990 – Current Topics in Accounting **1-3 cr**

Prereq: Variable to topic or project, contact department. Presents a forum where students will be introduced to topics of current interest and demand in the field of accounting. Topics studied will vary from semester to semester. Special project is required.

ACR 1100 – Metallurgy/Nonstructural Parts **5 cr**

Coreq: ACR 1111. This is a course in analysis and repairs of non-structural component parts and assemblies found in the construction of modern unibody and frame type vehicles.

ACR 1111 – Non-structural Skill/Appl Dev **7 cr**

Coreq: ACR 1100. This is a lab class for repairs of damaged non-structural parts. See ASE task list for more information. It concurs with ACR 1100 theory.

ACR 1199 – Specialty Training **1-7 cr**

Prereq: Previous SLCC training and industry experience. Industry specific training for Collision Repair Technicians.

ACR 1200 – Struct. Analysis/Damage Repair **5 cr**

Prereq: ACR 1100 and ACR 1111. Coreq: ACR 1211. A course in analysis and repair of structural component parts and assemblies found in the construction of modern unibody and frame type vehicles.

ACR 1211 – Structural Damage Repair **7 cr**
Prereq: ACR 1100 and ACR 1111. Coreq: ACR 1200. developed in the analysis and repair of structural component parts and assemblies found in the construction of modern unibody and frame type vehicles.

ACR 1299 – Specialty Training **1-7 cr**
Industry specific specialized training. This course is taught as requested by industry.

AERO 1010 – Foundations of USAF I **1 cr**
Coreq: AERO 1110. This course focuses on development, organization and doctrine of the United States Air Force, emphasizing strategic force requirements.

AERO 1011 – Foundations of USAF II **1 cr**
Coreq: AERO 1111. This class analyzes the development and organization of the United States Air Force, defensive forces, general purpose forces and tactical air forces.

AERO 1110 – General Mil. Ldrshp Lab I **1 cr**
Coreq: AERO 1010. This course studies and reviews Air Force standards, customs and courtesies. Students are also introduced to drill and ceremonies in today's Air Force.

AERO 1111 – Gen. Mil. Ldrshp Lab II **1 cr**
Coreq: AERO 1011. This course studies and reviews Air Force standards, customs and courtesies. Students are also introduced to drill and ceremonies in today's Air Force.

AERO 2010 – Air Power History I **1 cr**
Coreq: AERO 2110. This course traces the development of various concepts of air power employment, emphasizing factors that have prompted research and technological change.

AERO 2011 – Air Power History II **1 cr**
Coreq: AERO 2111. This course further traces the development of various concepts of air power employment, emphasizing factors that have prompted research and technological change.

AERO 2110 – General Mil. Ldrshp Lab III **1 cr**
Coreq: AERO 2010. This course prepares students to apply Air Force standards, customs and courtesies within this service branch. Drill and ceremonies leadership, along with an introduction to review and honors are discussed.

AERO 2111 – General Mil. Ldrshp Lab IV **1 cr**
Coreq: AERO 2011. This course examines various Air Force standards, customs and courtesies. Drill and ceremonies leadership, introduction to review and honors also are discussed.

AMTT 1120 – Aircraft Regulations **8 cr**

Recommended Coreq: AMTT 1140. Theory and practical application of maintenance forms and records, maintenance publications, fluid lines and fittings, mechanic privileges and limitations, cleaning and corrosion control, weight and balance, and aircraft drawings.

AMTT 1140 – Aircraft Electrical/Hardware **8 cr**

Recommended Coreq: AMTT 1120. Technical information and laboratory projects necessary for the practical application and understanding of theories, principles and concepts of basic electricity; ground operation and servicing; materials and processes; and basic physics.

AMTT 1160 – Aviation Technician Math **3 cr**

Designed to provide students with training in basic mathematical applications to provide math skills necessary to solve job related problems. Review of basic math, algebra and geometry.

AMTT 1220 – Airframe Systems I **8 cr**

Prereq: AMTT 1120 and AMTT 1140. Technical information and laboratory projects necessary for the practical application and understanding of theories, principles, and concepts of sheet metal; aircraft finishes; wood structures; aircraft covering; and welding.

AMTT 1240 – Airframe Systems II **8 cr**

Prereq: AMTT 1120 and AMTT 1140. Theory and practical application of communication and navigation, aircraft electrical systems, aircraft fuel systems, assembly and rigging, and fire protection systems.

AMTT 1260 – Airframe Systems III **8 cr**

Prereq: AMTT 1120 and AMTT 1140. Theory and practical application of aircraft landing gear, hydraulic and pneumatic, cabin atmosphere control, ice and rain control, position and warning, and aircraft instrument systems.

AMTT 1400 – Aircraft Electronic Systems **5 cr**

Prereq AMTT 1240 or instructor approval. Technical information and laboratory projects necessary for the practical application of testing and troubleshooting aircraft avionics systems, and for understanding theories, principals, and related concepts.

AMTT 2320 – Airframe Inspection **8 cr**

Prereq: AMTT 1120, AMTT 1140, AMTT 1220, AMTT 1240, and AMTT 1260. Theories, principles, and concepts of reciprocating engine principles; engine instruments; induction and engine airflow systems; engine exhaust and reverser systems; engine fire protection; and engine cooling.

AMTT 2340 – Powerplant Systems **8 cr**

Prereq: AMTT 1120 and AMTT 1140. Theories, principles, and concepts of fuel metering; engine electrical systems, ignition and starting systems, engine fuel systems, and lubrication systems.

AMTT 2420 – Reciprocating Engines **8 cr**
Prereq: AMTT 1120 and AMTT 1140. Theory and practical application of reciprocating engines, and propellers.

AMTT 2440 – Powerplant Inspection **8 cr**
Prereq: AMTT 1120, AMTT 1140, AMTT 2320, AMTT 2340, and AMTT 2420. Technical information and laboratory projects necessary for the practical application and understanding of theories, principles, and concepts of turbine engines; unducted fans; auxiliary power plants; and engine inspection.

AMTT 2990 – Special Studies **1-5 cr**
Prereq: Instructor approval. Theory and practical application of a specific subject area taken within a course to complete program or license requirements.

ANTH 1010 – Culture & Human Experience: Introduction to Cultural Anthropology (SS) **3 cr**
An introduction to the field of cultural anthropology, a study of diverse living peoples throughout the world. In addition, the course introduces cultural anthropology as a subfield of anthropology that studies contemporary societies.

ANTH 1020 – Human Origins: Evolution and Diversity (BS) **3 cr**
This course provides an introduction to biological anthropology, one of the subfields of anthropology, and includes surveys of hominid fossils, primate biology and behavior, human biological variation, ecology and adaptation, and evolutionary theory.

ANTH 1030 – World Prehistory: An Introduction (SS) **3 cr**
Introduction to the several million-year-old archaeological record of human prehistory. Students will examine broad patterns in prehistory and explore the richness of human creativity in foraging and farming cultures, as well as states and empires.

ANTH 1900 – Special Studies-Anthropology **1-3 cr**
This course is designed to explore special topical and/or subjects related to the study of anthropology. The course should be considered a more specialized and individualized learning experience in an area of anthropology.

ANTH 2000 – Archaeology Internship **3**
This course consists of working 45 hours during summer semester in the field of archaeology under the superivison of a field archaeologist. It also involves regular meetings with an Anthropology instructor to connect the field experience to supervisor.

ANTH 2011 – People & Cultures of SW (HU) **3 cr**
This course offers an introduction to the diverse peoples of the American Southwest. The course will examine the cultures of the Hopi, Navajo and Ute people.

ANTH 2030 – Introduction to Archaeology (SS) 3 cr
An introduction to modern archeological techniques, methods and theories for reconstruction of past life-ways in order to understand cultural adaptation to various environments.

ANTH 2120 – Sacred Traditions (HU) 3 cr
This course explores the beliefs and practices of indigenous cultures. It examines the rangeof anthropological approaches to the study of religious traditions that have developed and been refined over the past hundred years. It employs a mix of resources, including textual and visual materials and lectures

ANTH 2341 – Fundamentals of Archaeology 3 cr
Introduction to basic archaeological field techniques; mapping, field notes, survey, photography, and basic excavation techniques. Combines lectures and field exercises.

ANTH 2500 – Field School 1-4 cr
A formal field-based intro to the historic and prehistoric cultures and the techniques of field work anthropologists and other scholars use to generate knowledge about cultures. Includes basic arch. survey/excavation techniques, recordation techniques, and the collection of artifacts.

ANTH 2530 – Historical Archaeology (ID) 3 cr
Historical archaeology is the interdisciplinary study of past human cultures through oral and written records and through physical cultural remains. It introduces students to the ways these different types of historic and archaeological evidence can be used to understand and re-interpret the past.

ANTH 2900 – Special Topics in Anthropology 1-3 cr
The course is an intermediate field techniques course, designed to advance student knowledge of survey, excavation, recordation and fieldwork organization.

ANTH 2950 – Archival Internship 3 cr
This course consists of working 45 hours during summer semester in the field of archaeology under the superivison of a field archaeologist. It also involves regular meetings with an Anthropology instructor to connect the field experience to supervisor.

APPR 1470 – Math for the Trades (QS) 5 cr
This is a customized course in applied mathematics for the trades including algebraic and trigonometric functions.

AR 1100 – Automotive Refinishing 5 cr
Coreq: AR 1111. A course in the preparation and application of base and top coats on damaged vehicles for finish coating.

AR 1111 – Refinishing Skill Development **7 cr**
Coreq: AR 1100. Skill development of surface prep and painting competencies. Lab class covers ASE task requirements.

AR 1199 – Specialty Training **1-7 cr**
Prereq: Previous SLCC training and industry experience. Industry specific training for Automotive Refinishers.

AR 1200 – Advanced Auto Refinishing **5 cr**
Prereq: AR 1100 and AR 1111. Coreq: AR 1211. This is a theory course for advanced refinishing procedures and techniques including color matching and multi-stage finishes. See ASE task list for more information.

AR 1211 – Advanced Skill Development **7 cr**
Prereq: AR 1100 and AR 1111. Coreq: AR 1200. This is a lab class to develop skills in advanced painting and finishing competencies. See ASE task list for more information.

AR 1230 – Auto Color and Design Theory **2 cr**
Airbrush theory and Lab covering image of color in design and lettering techniques.

AR 1299 – Specialty Training **1-7 cr**
Prereq: Previous SLCC training and industry experience. Industry specific training for Automotive Refinishers.

ARB 1010 – Beginning Arabic I **5 cr**
First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Arabic culture. Lab attendance is required.

ARB 1020 – Beginning Arabic II (LN) **5 cr**
Prereq: ARB 1010 or permission of instructor. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Arabic culture. Lab attendance is required.

ARB 1300 – Beginning Conversation/Arabic **1 cr**
Prereq: ARB 1010 or instructor approval. Beginning Arabic Conversation is intended to practice previously-acquired conversation skills to increase speaking ability and vocabulary. Attendance in lab is required. Course may be repeated for credit.

ARB 1900 – Special Studies in Arabic **1-2 cr**

Prereq: Instructor approval. Students plan areas of study, Service Learning component or travel and work with the instructor on an individual basis. Topics may be in language or culture. Lab may be required. May be repeated for credit.

ARB 2010 – Intermediate Arabic I **4 cr**

Prereq: ARB 1020 or instructor approval. Second-year Arabic courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc) Lab attendance is required.

ARB 2020 – Intermediate Arabic II **4 cr**

Prereq: ARB 1020 or instructor approval. Second-year Arabic courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc) Lab attendance is required.

ARB 2300 – Intermediate Conversation **1 cr**

Prereq: ARB 1020 or instructor approval. Intermediate Arabic Conversation is intended to practice previously-acquired conversation skills to increase speaking ability and vocabulary. Attendance in lab is required. Course may be repeated for credit.

ARB 2900 – Special Topics in Arabic **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in Arabic language and culture. Lab attendance required. May be repeated for credit.

ARCH 1010 – Intro. to Design Professions **3 cr**

The study of the roles that designers play in society and what job markets are available in the areas of architecture, CAD, construction management, architectural history, landscape architecture, and interior design.

ARCH 1100 – Intro. to Arch. Drawing **3 cr**

Students will about architectural drawings used in residential and commercial projects. Practical skills for reading blueprints of floor plans, sections, details, elevations and schedules.

ARCH 1130 – Basic Drawing **3 cr**

Practical skills in the fundamentals of drawing and freehand sketching. Graphic media such as pencil, pen, charcoal and ink will be explored. Instruction will focus on the use of light, shadow, texture, contour and form.

ARCH 1210 – Residential Construction **5 cr**

Prereq: ARCH 1310 or 2350. Residential construction techniques are analyzed from site planning to finish construction. Building codes, estimating, and specifications are discussed as they relate to methods and materials of residential construction common to Utah.

ARCH 1310 – Intro. to AutoCAD **3 cr**

Students gain the practical knowledge in the use of AutoCAD that is essential in producing architectural drawings. This course includes hands-on applications. Simple drawings will be produced.

ARCH 1350 – Computer Graphics **3 cr**

Studies include the manipulation of scanned and digital images, desktop publishing, digital presentations and web page designs. Various computer software will be used to promote the ideas and designs of architects and designers.

ARCH 1510 – Architectural Design Workshop **3 cr**

This course will develop visual awareness and basic abstract design principles. Balance, symmetry, repetition, order variety, uniformity, proportion, motif and color will be introduced with various generic and abstract projects.

ARCH 2060 – Construction Documents **3 cr**

Prereq: ARCH 1010 or CMGT 1010 or instructor approval. Provides the foundation required for the interpretation of construction documents Including drawings and specifications. This course prepares students for CSI's Construction Document Technician Examination.

ARCH 2150 – Architectural Graphics **3 cr**

Prereq: ARCH 1130. Course explores the preferred hand presentation techniques used with both two and three-dimensional drawings in the arch. design. Students will experience the jury process, peer review and learn skills needed to prepare portfolios.

ARCH 2210 – Commercial Construction **5 cr**

Prereq: ARCH 1210 or CMGT 1010. Basic materials and installation methods for commercial construction are studied. These include site work, concrete, masonry, curtain-walls, steel, doors, window finishes, and an overview of codes.

ARCH 2310 – Modeling/Rendering/Animation I **3 cr**

Digital modeling is presented as an essential tool for architectural design, visualization, and presentation. Principles are stressed so that acquired skills can be used with any modeling, rendering and animation software.

ARCH 2320 – Modeling/Rendering/AnimationII **3 cr**
Prereq: ARCH 2310. Skills developed in ARCH 2310 are enhanced with new techniques and intermediate and advanced skills. Presentation skills are also developed through advanced projects.

ARCH 2330 – CAD Customization **3 cr**
Prereq: ARCH 1310. Basic customization of AutoCAD software will be discussed and practiced as it applies to industry. Emphasis will be placed on developing AutoCAD tools and skills that will save time and improve productivity.

ARCH 2350 – Advanced Architectural CAD **3 cr**
Students will develop BIM skills and use specific 3D architectural oriented software. Design and construction documentation will be examined.

ARCH 2460 – Construction Estimating **2 cr**
Prereq: ARCH 1210 or CMGT 1010. Material take-offs, labor cost estimates, sub-contractor bids, equipment costs, price extensions and competitive bidding, with and without the use of the computer, will be covered in this class.

ARCH 2470 – Codes, Zoning & Inspections **2 cr**
This course is the study of current building codes and an overview of zoning regulations. This course will help with inspections for code enforcement and compliance, occupancy classifications, area limitations and life-safety regulations.

ARCH 2510 – Residential Design - CAD **5 cr**
Prereq: ARCH 1210 and ARCH 1310. Provides a study of light frame construction techniques and production of residential construction drawings using CAD software. Students produce a professional set of presentation and construction drawings of a residential structure.

ARCH 2520 – Commercial Design - CAD III **5 cr**
Prereq: ARCH 2210 and ARCH 2510. Examines commercial construction materials, techniques and the production of construction drawings using CAD software. Students will produce a professional set of presentation and construction drawings of a commercial structure.

ARCH 2900 – Internship **1-3 cr**
Supervised work experience in a business, industrial, or government environment related to the program major. Credit awarded for successful completion of specific learning objectives that provide new learning related to the program major.

ARCH 2990 – Special Studies **1-20 cr**
Prereq: Instructor approval. This course is designed so the student can work on special individualized projects under the supervision of the instructor.

ART 1010 – Exploring Art (FA) **3 cr**

Introduces visual art to the non-major. Provides historical perspective of visual art development. Study of major principles, elements, media, and techniques. Nonjudgmental art project, reading, writing, required.

ART 1020 – Intro to Drawing (non-maj)(FA) **3 cr**

An introductory drawing course for non-majors. Line, shape, perspective and light logic will be discussed. Using these techniques, students will develop their drawing skills. Some reading and writing will be required.

ART 1040 – Jewelry:Culture & Creation(FA) **3 cr**

Jewelry has been a factor in the culture of many civilizations. This course teaches art and construction techniques. Students will design and create several unique jewelry pieces during the class using various techniques.

ART 1050 – Intro to Photography (FA) **3 cr**

Examines the important contribution of photography and photographers in the field of art. Students will learn basic operations of a digital or film SLR camera (which is required for course), perform shooting assignments, learn visual rules of composition, and conduct research. For non-art/photography majors.

ART 1060 – Hist/Art Lettering/Callig.(FA) **3 cr**

A study of the development of lettering throughout history. Several historic alphabets are studied and written. Various writing fluids and papers are explored. An introduction to bookmaking is part of this course. Extra cost for supplies.

ART 1110 – Foundation I Drawing **4 cr**

Introduction to principles of visual awareness and drawing. Use of line to describe 3D reality on a 2D surface. Linear perspective will be a primary emphasis. Course will include a study of light logic.

ART 1120 – Design **3 cr**

Students will be introduced to the basic principles (balance, rhythm, emphasis, unity) and elements (line, shape, texture, space, size, value, color) of design. All Visual Art & Design majors are required to take this class.

ART 1135 – Printing Fundamentals **3 cr**

This is a hands-on class in which students will produce actual printed items. Printing history, printing processes, terminology, art preparation, photo reproduction, prepress, bindery, paper, inks and related items will be covered.

ART 1150 – Art Foundation Seminar (HR) 2 cr
Theory and practice of human relations in artwork environments. Self-concept, interpersonal skills, teamwork, communication, networking, conflict resolution, career development, cross-cultural and gender relations, portfolio development.

ART 1200 – InDesign Software 3 cr
Students learn the skills, tools and procedures needed to create electronic page layout files for output using leading industry software.

ART 1210 – Math for Visual Arts (QS) 3 cr
This course covers basic math functions required of visual artists including fractions, decimals, measurements and percentages. Concepts specific to working with computers and scanners will be addressed as well as basic cost estimating as it relates to the graphics industry.

ART 1230 – Typography & Layout 3 cr
Prereq: ART 1120 and 1200 can either be taken before or in the same term. This course combines the study of typography with the fundamentals of layout. Students will study the history of letters and will learn to identify various typefaces. They will solve layout problems using design principles and type.

ART 1240 – Screen Printing 3 cr
Students will create designs that they will prepare and print using a direct emulsion stencil. They will learn screen preparation and stencil application. Most projects will be printed on paper.

ART 1250 – Airbrush 3 cr
This curriculum will include basic use and skill with airbrush; application to a variety of rendering problems including simple dimensional forms and objects and multi-color masking.

ART 1260 – Figure Drawing 3 cr
Prereq: ART 1110. A study of figure drawing techniques and concepts. Students work directly from the model. Knowledge gained in anatomy, gesture, and structure.

ART 1280 – Photoshop Software/Design 3 cr
Graphic Design, Illustration, and Electronic Publishing students should take this course. Students learn the skills, tools and procedures needed to create basic to intermediate Adobe Photoshop documents for print and non-print media.

ART 1310 – Photography I 4 cr
Discussion and operation of film and digital SLR cameras, along with film and digital lab techniques. Fully adjustable digital or film SLR camera and other photo equipment required.

ART 1320 – Photographic Vision **3 cr**

Prereq: ART 1310 or 1050 or either concurrently. Photographic expression and visual composition are explored through image capture and printing assignments. Emphasis placed on creative exploration, personal expression and visual arrangement of content.

ART 1340 – Photography Lighting and Equipment 1 **4 cr**

Prereq: ART 1310 and ART 1380 (can be taken concurrently). Introduction of various lighting and camera equipment used for photographic applications. Including medium and large format cameras, high-end digital capture, studio lighting equipment, lighting modulators, and computer equipment required to create imagery.

ART 1375 – Photographing Diversity(FA,DV) **3 cr**

Prereq: ART 1050 or 1310 w/C grade or better. Study and photographically document social issues relating to non-dominant cultures, minorities, societies, biases and privileges. Study contributions made by photographers/artists relating to historic and contemporary diversity issues. Fully adjustable film or digital camera required.

ART 1380 – Photography II **4 cr**

Prereq: ART 1310. A continuation of Photography I, w/emphasis on producing high quality images through advanced camera controls and the applied aesthetics of photography. A digital or film SLR camera is required.

ART 1400 – Copyrights for Creative Professionals **1 cr**

This introductory short course focuses on U. S. copyrights given to creative individuals who produce visual, musical, literary works of art or performing arts. The course also covers licensing and trademarking.

ART 1420 – Salesmanship And Promotion For Creative Professionals **2 cr**

This introductory short course will introduce basic sales and self-promotional principles and techniques specifically tailored for creative artists.

ART 1440 – Building A Creative Business **2 cr**

This introductory short course will introduce basic business structures and examine the process of setting up a business for creative professionals working in the areas of music, the many forms of visual design, fine art, animation, film and video, and the literary arts.

ART 1530 – Beginning Painting-Watercolor **3 cr**

This course will focus on the introduction and exploration of watercolor techniques. Composition and design will be discussed. The subject matter will include still life and occasional outdoor studies.

ART 1540 – Beginning Painting-Oil **3 cr**
This course will focus on the introduction and exploration of oil painting techniques. Composition and design will be discussed. The subject matter will include still life and occasional outdoor studies.

ART 1560 – Head Studies-Portrait Painting **3 cr**
Intermediate oil painting course focusing on painting portraits, observe and interpret planes and anatomy of the human head. Shape, value, light, and color will be the main emphasis. Composition and paint application will be addressed.

ART 1580 – Landscape Painting **2 cr**
Understand and apply the basics of painting landscapes. Explore materials, techniques, color theory, and expression. Most class sessions will be held at locations around Salt Lake. Learn skills such as drawing, color, value, edges, and brushwork.

ART 1620 – Intro to Animation **2 cr**
Introduction to the production process, skill sets, foundational principles, and techniques of animation. An intense course with heavy emphasis on drawing.

ART 1660 – Storyboarding **3 cr**
Prereq: ART 1110 and ART 1620. Introduction to visual storytelling, as applied to conceptualizing storyboards and animatics for various time based mediums.

ART 1670 – Character Animation Basics **3 cr**
Prereq: ART 1620 (for 2D) or ART 2640 (for 3D) and instructor approval. Expanding on principles of animation, body mechanics, and acting to create animated performances for both traditional and 3D application.

ART 1680 – Game Development **3 cr**
Prereq: ART 1800. Introduction to seminal movements, principles, analysis, mechanics and theories of game play and development. Applied through a collaborative production workflow creating design documentation, and prototyping of physical and software based games.

ART 1690 – Foundation Level Software Testing for Game Developers **1 cr**
This course covers the basics of software testing and while geared toward game development, is valid for all forms of software testing. Students will be introduced to forms, strategies and tools of effective software testing.

ART 1800 – Digital Media Essentials **4 cr**
Intro to software and hardware used to create multimedia productions. Hands-on experience using hardware, software to create 2D/3D graphics, sound, animation, and video. Discussion of the multimedia market, copyright, and ethics in mass media.

ART 1810 – Intermed. Photoshop/Multimedia **2 cr**

Prereq: ART/COMM/EBT/ENGL/FLM 1800. Class required for Multimedia emphasis students. A continuation of Photoshop skills learned in ART 1800. Photoshop will be used to create maps for use in 3D animation, and graphics for web design and digital video production.

ART 1850 – Portfolio/Career Preparation **2 cr**

An introductory course focused on portfolio and freelance career preparation for all creative artists.

ART 1900 – Special Project **1-4 cr**

Prereq: Instructor approval. This course is an Independent Study course. Any of the VAD courses can be used as curriculum. This is to be done on an individual need basis. With approval of the instructor.

ART 2000 – Visual Art CO-OP Education **1-5 cr**

Prereq: Sophomore standing, minimum of 2. 0 GPA, study-related employment working at least 20 hours per week, and instructor approval. This is a supervised work experience in a business, industrial, or government environment related to the program major. Credit is awarded for successful completion of specific objectives that provide new learning related to the major.

ART 2010 – History of Visual Art & Design **3 cr**

This class examines visual art from ancient civilizations to the present including graphic design. Emphasis is on the context in which new movements appear and how fine art and graphic design are related.

ART 2040 – Intermediate Jewelry **3 cr**

Prereq: ART 1040 or instructor approval. Continuation of the techniques taught in ART 1040. Students will learn advanced jewelry fabrication and create several unique jewelry pieces.

ART 2050 – Visual Dev & Character Design **2 cr**

Prereq: ART 1120 and ART 1260. Design and stylization of human and animal characters, environments, and props for visual storytelling applied to concept art, comic books, and cartoon illustration.

ART 2070 – Portfolio Development **3 cr**

Prereq: ART 2230 (Graphic Design Emphasis) or ART 2270 (Illustration Emphasis), must be successfully completed before a student can register for the class or instructor approval. Students develop portfolio, resume, and self-promotion strategies. Design business practices introduced.

ART 2080 – VAD Internship **1-3 cr**

Prereq: Instructor approval and second-year status. Students may elect to participate in visual arts internships through approved employers. Students learn practical work experience as it applies to their career in the visual arts.

ART 2110 – Foundation II Drawing **4 cr**

Prereq: ART 1110 or 1020 (for Photo Emphasis). Value and light logic are explored using paint medium. Course includes fundamentals of color theory. Included: color mixing, painting techniques and materials. Composition, creative use of value, and image building are covered.

ART 2120 – eDesign and Publishing **3 cr**

Adobe InDesign and the Adobe Digital Publishing Suite are used for publishing to electronic devices such as the Apple iPad and the Amazon Kindle. Emphasis will be placed on mastering the Adobe Digital Publishing Suite to create digital magazines. The creation of electronic documents including Interactive PDFs, ePUBs, and iBooks will also be covered.

ART 2140 – Adv Photoshop Software/Design **2 cr**

Prereq: ART 1250, ART 1810, or ART 2340 or instructor approval. This course is for all Visual Art and Design majors wishing to perfect advanced features and skills specific to graphic design application. Students will create and rework portfolio pieces.

ART 2200 – Advanced InDesign Software **2 cr**

Prereq: ART 1200 and ART 1230. Students will develop advanced skills to create electronic files ready for printing. They will also use their skills to produce quality portfolio pieces.

ART 2210 – Illustration I **3 cr**

Prereq: ART 1110, ART 2110 (can be taken concurrently), or instructor approval. Various black and white and color media will be introduced to develop editorial and advertising illustration techniques with emphasis on composition, drawing, creativity, exploration of techniques.

ART 2220 – Advanced Design **3 cr**

Prereq: ART 1135 and ART 1230; must be successfully completed before a student can register for the class; take ART 2220 after or concurrent w/ART 2230. This course builds upon previous Design, Typography and Layout classes as well as introduces students to corporate identity and collateral design problems. Students will produce portfolio and art show quality work.

ART 2230 – Advanced Typography & Layout **3 cr**

Prereq: ART 1230 must be successfully completed before a student can register for the class; Recommended prereq: ART 2230 before ART 2220 or concurrently. This course is a continuation of ART 1230. Students will explore the design aspects and possibilities inherent in typography as well as more complex layout problems. Students will produce portfolio and art show quality work.

ART 2240 – Package Design **3 cr**

Prereq: ART 113 and ART 2230 must be successfully completed before a student can register for the class. This course will cover design considerations for basic packaging. Packaging fundamentals & basic materials & processes will be introduced. Projects may include hang-tags, bags, boxes, cylinders or point-of-purchase displays.

ART 2260 – Advanced Figure Drawing **2 cr**

Prereq: ART 1260. This is a continuation of ART 1260. Advanced techniques and principles in figure drawing. Primary emphasis on light logic, gesture and head studies.

ART 2270 – Illustration II **3 cr**

Prereq: ART 2210 or instructor approval. In-depth development of editorial/advertising illustration will be covered as well as skills using various black and white and color media. Students will produce original art with both traditional and digital media

ART 2280 – Advertising Workshop **3 cr**

Prereq: ART 2230. This course introduces students to product/service promotion and advertising. Students will gain a basic understanding of the components of an advertising agency; strategies, media choices, budgets, production analysis, proposals and presentations. Professional ethics will be addressed.

ART 2290 – Advanced Illustration **2 cr**

Prereq: ART 2270 or instructor approval. Creation of an Illustration Portfolio, with finished examples that show pictorial evidence of skill and personal style in chosen medium from the broad spectrum of media reviewed.

ART 2300 – Alternative Photography **3 cr**

Prereq: ART 1310. An exploration of a variety of non-traditional photographic processes and techniques. Emphasis is placed on applying these techniques to individual artistic photographic expression and creating a fine-art portfolio.

ART 2310 – Photography Lighting And Equipment 2 **4 cr**

Prereq: ART 1340 and ART 1380. Apply photo studio environment and equipment to create images of still-life, product, portrait, and location. Emphasis on light theory, lighting equipment, all camera formats, and refinement of digital exposure and film image capture.

ART 2320 – Documentary Photography **3 cr**

Prereq: ART 1380. The study of photographic documentary and photojournalism techniques and applications for visual communication. Emphasis placed on the emotional impact of photographic images. Professional ethics will be addressed.

ART 2330 – Photography: A Cultural History (HU) **3 cr**
An examination of the art, cultural impact, social connections, and invention of photography. Historic photographers, events, trends, applications, and techniques are explored. Contemporary connections are examined.

ART 2340 – Photoshop for Photographers **3 cr**
Prereq: ART 1380. Utilize Adobe Photoshop, Camera Raw processing to produce images specific to photography. Emphasis on digital workflow, color spaces, ICC profiles, image scans, file types, shortcuts, digital printing and output.

ART 2350 – Photographing People/Portrait. **3 cr**
Prereq: ART 2310 or concurrently. Techniques to photograph informal, formal, and environmental portraits. Produce aesthetic portraits in the studio or location utilizing electronic flash. Refine posing, composition and conceptual aspects for dramatic portraits of people.

ART 2360 – Nature Photography **3 cr**
Prereq: ART 1380. Explores the principles, philosophies, history, technical aspects and business practices of nature photography. Includes both in-class and on-location image capture assignments.

ART 2370 – Photography Business Practices **3 cr**
Prereq: ART 2310. Students develop self-promotional marketing strategies, learn professional photographic business practices such as usage rights, billing and writing a simple business plan.

ART 2375 – Photo Portfolio Development **1 cr**
Prereq: ART 2310. Recommended Coreq: ART 2370. This course provides advanced photography students additional time and instructional guidance in portfolio development and presentation. Students practice personal portfolio direction and image selection.

ART 2380 – Adv. Studies in Photography **4 cr**
Prereq: ART 2310 w/C grade or better. Refinement of all photographic aspects and vital development of individual photographic style. Demonstrate interpretation of advanced lighting applications utilizing photographic equipment for creative studio and location technique.

ART 2400 – Web Project Management **3 cr**
Prereq: ART 2440 and ART 2550. Students will develop the skills necessary to manage Web site development and design projects from conception to delivery. Students create project specifications based upon a client's input and then write a project proposal, develop a project plan using the industry-leading project management software, manage a project, react to unexpected issues, and deliver a final product.

ART 2412 – Illustrator Software **3 cr**

Students will create original designs, layouts, and illustrations using Adobe Illustrator vector software. Production issues for print and web media presented. Design, illustration, and multimedia students are required to take ART 2412.

ART 2420 – Advanced Illustrator Software **2 cr**

Prereq: ART 2412 or instructor approval. For Visual Art and Design students (2nd yr. status best) or working artists who wish to create/rework portfolio pieces. Advanced use of Adobe Illustrator, and interface with the following: Photoshop, In-Design, Flash. Six original projects required.

ART 2440 – Web Site Design **3 cr**

Prereq: ART/COMM/ENGL/FLM 1800. or ART 1280 (Graphic Design, Illustration or Graphic Communication Technologies Emphasis) must be successfully completed before a student can register for the class. Students learn the knowledge and skills needed to build and manage professional web sites using Dreamweaver and Fireworks. Students create interactive web sites, graphics, animation, and advanced styling using HTML, CSS, and JavaScript.

ART 2470 – Digital Video Production **2 cr**

Prereq: ART/COMM/ENGL/FLM 1800, ART 1280, ART 2340, or instructor approval. The course is an introduction to the technical issues of digital video production. Including the capturing and editing of digital video and audio for animation, web, mobile, and digital media applications.

ART 2480 – Digital Painting **2 cr**

Prereq: ART/COMM/ENGL/FLM 1800 or ART 1280; ART 2110. Expanding on traditional painting techniques using digital painting programs that mimic the use of traditional media. Projects focus on design and application for illustrations, special effects, 3D textures, and concept designs.

ART 2490 – Adv. Studies in Comp. Graphics **2 cr**

Prereq: Instructor approval. This course continues all work begun in other computer graphics classes. Students pursue their own direction in the production of finished projects.

ART 2510 – Mobile Publishing Seminar **3 cr**

Prereq: ART 1200, ART 2120, ART 2440. Students will refine electronic, mobile, and web publishing techniques to create cutting edge publications and visual based applications for mobile devices and outlets such as the Apple App Store. This capstone course will review the latest trends in social media giving students exposure to many of the most popular trends in graphic arts, mobile publishing, and social media.

ART 2520 – Advanced Drawing **2 cr**
Prereq: ART 1110 or instructor approval. Build on knowledge of proportion, line, value and shape. Expressive and imaginative interpretation are encouraged. Textural explorations, symbolic content in drawings and rapid drawing exercises are areas of skills developed.

ART 2530 – Advanced Painting - Watercolor **3 cr**
Prereq: ART 1530 or portfolio review by instructor. A continuation of ART 1530. Further development of various watercolor techniques and composition. Students are encouraged to develop their own unique talent. Maturation and experimentation of aesthetic philosophy are expected.

ART 2540 – Advanced Painting - Oil **3 cr**
Prereq: ART 1540. A continuation of beginning oil. Further development of oil painting techniques. Composition and color are emphasized.

ART 2550 – Website Design II **3 cr**
Prereq: ART 2440 w/C grade or better. Continuation of web design principles to create advanced Website designs by integrating animation, video, and audio along with CSS, and JavaScript libraries. Emphasis is placed on interface design principles and concepts.

ART 2560 – Figure Painting **3 cr**
Prereq: ART 1260 and ART 2110. Painting the draped and undraped figure in oil or acrylic. Emphasis on light logic, color theory. Painting the human head will be emphasized.

ART 2570 – e-Commerce Design **3 cr**
Prereq: ART 2440. Covers the strategy and methodology in creating e-Commerce Website designs. Topics include demographics of the Internet, opportunity and risk assessment, competitive analysis, current technologies, and e-Commerce trends.

ART 2580 – Web Animation **3 cr**
Prereq: ART 2440. An Introductory course focused on using design software to create effective web page animation.

ART 2590 – Dynamic Web Design **4 cr**
Prereq: ART 2440 and ART 2550. In this capstone web design course students will learn the essentials of designing websites that have dynamically changing content. Basic knowledge and structure of database driven websites with user generated content using PHP and MySQL will be discussed. Foundations in validating and processing form data along with designing themes for open source content management systems are taught.

ART 2610 – Multimedia Authoring **2 cr**
Prereq: ART 2440. This is a continuation of ART 2440. Flash and Dreamweaver software will be introduced and used to design and prepare Web pages.

ART 2620 – Motion Graphics **2 cr**
Prereq: ART 1230 and ART 1620. The integration of type and image in motion using design and animation principles in the creation of graphics for time based visualizations.

ART 2630 – Introduction to 3D Modeling **3 cr**
Prereq: ART/COMM/ENGL/FLM 1800 or instructor approval. Application of modeling, texturing, rendering, lighting and compositing principles using 3D software with emphasis on applying traditional art principles.

ART 2640 – Introduction to 3D Animation **3 cr**
Prereq: ART 2630 and ART 1620, or instructor approval. Application of the various methods for creating animation using 3D software, Including keyframing and simulations with emphasis on applying traditional animation principles.

ART 2650 – 3D Character Design & Rigging **3 cr**
Prereq: ART 2640. Methodology and strategies for digitally sculpting character models, and creating readily revisable and animator friendly rigs for maximum flexibility in a CG visualization.

ART 2660 – Visual Effects & Compositing **3 cr**
Prereq: ART 2640. Overview of the processes used to create and composite 2D and 3D special effects using procedural workflows and various software tools to achieve efficient and flexible results.

ART 2665 – 3D Lighting & Rendering **3 cr**
Prereq: ART 2630. Exploring procedural and painting methods to create art-directable surface textures/shaders utilizing different rendering engines & software, also techniques and practices for lighting, multi-pass rendering, and compositing for use in CG visualizations.

ART 2670 – Animation Production Workshop **4 cr**
Prereq: ART 1660 and 50 completed credit hours toward an Animation Emphasis. Student driven portfolio development based on animation/design projects that emphasize working in a production pipeline.

ART 2680 – Game Assets & Production **3 cr**
Prereqs: ART 1680, ART 2640, and (CSIS 1350 or 1850). Applying principles and process from Game Development in a collaborative production by creating assets and implementing them in an engine to produce a prototype game.

ART 2900 – Visual Art & Design Seminar **1-3 cr**
Prereq: Instructor approval. Students may elect to participate in visual arts seminars and workshops, which may include travel. There may be additional costs.

ART 2910 – Photo Fieldtrip Workshop **3 cr**
Prereq: Instructor approval. Multiple-day, off-campus fieldtrip relating to photographic studies. Students tour world-class galleries/museums, attend private displays of historic and contemporary art, perform photographic work, keep a reflective journal.

ART 2940 – Special Topics Graphc Design **1-6 cr**
Prereq: Instructor approval. This course allows design majors to learn special skills, hone specific skills, learn new software or explore special graphic design topics in a classroom setting.

ART 2950 – Special Topics in Illustration **1-6 cr**
Prereq: Instructor approval. This course allows Illustration majors to learn special skills or techniques, hone specific skills, learn new software or explore special illustration topics in a classroom setting.

ART 2960 – Special Topics in Animation **1-6 cr**
Prereq: Instructor approval. This course allows animation majors to learn special skills, hone specific skills, learn new software or explore special animation topics in a classroom setting.

ART 2970 – Special Topics in Photography **1-6 cr**
Prereq: Instructor approval. VAD Photo majors to learn special techniques, hone specific skills, learn new software and/or explore special photographic topics in a classroom setting.

ART 2980 – Special Topics in Multimedia **1-6 cr**
Prereq: Instructor approval. This course allows Multimedia majors to learn special skills or techniques, hone specific skills, learn new software or explore special topics in a classroom setting.

ART 2990 – Advanced Independent Studies **1-3 cr**
Prereq: Instructor approval. After completing all available courses in an area of study, students have the opportunity to pursue advanced study with a faculty member on an individual basis. Students must consult with that faculty member about details and permission.

ARTH 2520 – Latin American Art to 1821(HU) **3 cr**
Examines visual art from Prehistory to Colonial-era Latin America. Artworks are critically considered as objects that embody and convey ideas and meanings in the context of their periods and cultures, and within the developments of art over time.

ARTH 2640 – Asian Art: Buddhist Art **3 cr**

Examines the artistic traditions of Buddhism. Beginning with the birth of Buddhism in India, the course will follow the development and spread of Buddhist art to China and the rest of Asia.

ARTH 2700 – Asian Art: Japan **3 cr**

Course focuses on the artistic and cultural traditions of Japan beginning with the prehistoric Jomon era and continuing to the present.

ARTH 2710 – Art History:Prehistory/Ren(HU) **3 cr**

An examination of visual art forms from Prehistory to the European Renaissance. Emphasis: developing a comparative understanding of a variety of works (including painting, sculpture, and architecture) from different cultures in context.

ARTH 2720 – Art History:Ren/Contemp. (HU) **3 cr**

An examination of the visual art forms created from the period of the Renaissance to the Contemporary era. The study focuses on the aesthetic, cultural, and psychological factors that shape the changes in artistic expressions through time.

ASL 1010 – Beginning ASL I **5 cr**

First in series of four courses which focus on expressive and receptive skills in American Sign Language and an introduction to American Deaf culture. Major objective of the first year is to develop functional language ability in the Deaf community.

ASL 1020 – Beginning ASL II **5 cr**

Prereq: ASL 1010. Second in a series of four courses which focus on expressive and receptive skills in American Sign Language and an introduction to American Deaf Culture. Major objective of the first year is to develop functional language ability in the Deaf community.

ASL 1300 – Conversation **1 cr**

Prereq: ASL 1020. Course practices currently held conversation skills to increase expressive and receptive ability with varied vocabulary. Includes role plays, small group work and presentation. May be repeated for credit.

ASL 1900 – Special Studies in ASL **1-3 cr**

Prereq: ASL 1020. In this ASL special studies course, students plan areas of study, Service Learning component or travel and work with instructor on an individual basis. Some work may be done in groups. May be repeated for credit.

ASL 2010 – Intermediate ASL I **4 cr**

Prereq: ASL 1020. Second-year ASL courses increase functional language ability focusing on expressive and receptive skills in ASL as well as increased focus on American Deaf Culture (philosophies, history, geography, literature, etc.)

ASL 2020 – Intermediate ASL II **4 cr**

Prereq: ASL 2010. Fourth in a series of four courses which focus on expressive and receptive skills in ASL and an in-depth exploration of American Deaf Culture. Major objective of second year is to increase functional language ability. Emphasis is on proficiency.

ASL 2100 – Proficiency Development **4 cr**

Prereq: ASL 2020. The course focuses on proficiency development. Students will learn techniques and strategies to increase their language proficiency in a variety of social, educational and cultural settings.

ASL 2300 – Conversation II **1 cr**

Prereq: ASL 2020. Course practices currently held conversation skills to increase expressive and receptive ability with varied vocabulary. Includes role-plays, small group work and presentations. May be repeated for credit.

ASL 2400 – Topics in ASL **1-3 cr**

Prereq: ASL 2010. A special topics course will include related areas in literature, linguistics, or visual communication. Topics vary and may include Visual Gestural Communication, professional terminology, ASL linguistics, etc.

ASL 2700 – Intruduction to ASL Literature **3 cr**

Prereq: ASL 2020. This course focuses on ASL literature forms, including storytelling, poetry, and comedy to better understand Deaf culture and American Sign Language.

ASL 2710 – Introduction to Deaf Art/Film **3 cr**

Prereq: ASL 2010. Exploration of artistic expression as practiced by Deaf individuals and in Deaf communities around the world to express individual identity and develop/define cultural identity.

ASL 2750 – Special Topics in Deaf Culture **1-3 cr**

Prereq: ASL 2010. This is a course designed by faculty and allows students to explore specific interests in American Deaf culture including Bi-Cultural competence, signed history project, cultural/medial views of deafness. May be repeated for credit.

ASL 2900 – Special Topics **1-3 cr**

Prereq: ASL 2010. A special topics course will include related areas in literature, linguistics, or visual communication. Topics vary and may include Visual Gestural Communication, professional terminology, ASL linguistics, etc.

AUTO 1010 – Maint & Lt Repair Fundamentals **6 cr**

An introductory course providing fundamentals of operation and maintenance procedures including: researching service information, shop safety, tool, and equipment use, maintenance and light repair service procedures. Prerequisite to additional AUTO courses. Completers may test to become Honda PACT students.

AUTO 1150 – Auto Electrical & Electronics **6 cr**

Prereq: AUTO 1010 or successful completion of challenge exam for AUTO 1010. Diagnostic and repair procedures involved in electrical and electronic systems with practical application of Ohm's law. Hands-on diagnosis and repair of charging, starting, lighting, electronic accessory, and supplemental restraint systems.

AUTO 1199 – Spec. Trng/Auto **1-15 cr**

Allows the student to acquire additional expertise in a specific automotive application, approved by the instructor.

AUTO 1250 – Automotive Engine Repair **6 cr**

Prereq: AUTO 1010 w/C grade or higher, or successful completion of challenge exam for AUTO 1010. This is a National Automotive Technician Education Foundation (NATEF) certified training course covering the theory of operation of four-stroke gas internal combustion engines. Teaches engine components, design characteristics, systems, subsystems, and diagnostics. Maintenance and repair procedures will be performed on live work, mock-ups, components, and department owned vehicles.

AUTO 1299 – Automotive Specialty Training **0.5-12 cr**

Allow automotive students to acquire additional expertise in a specific industrial automotive application, to be approved by the instructor.

AUTO 1350 – Automotive Braking Systems **6 cr**

Prereq: AUTO 1010 w/C grade or higher, or successful completion of challenge exam for AUTO 1010. This is a National Automotive Technician Education Foundation (NATEF) certified training course covering the theory, functions of repair, service procedures, and shop practices of Automotive Braking Systems.

AUTO 1450 – Auto. Suspension & Steering **6 cr**

Prereq: AUTO 1010 w/C grade or higher, or successful completion of challenge exam for AUTO 1010. This is a National Automotive Technician Education Foundation (NATEF) certified training course covering the theory, functions of repair, and maintenance of automotive suspension and steering systems.

AUTO 2000 – Roger L. Miller Automotive Internship **6 cr**

Students use on-the-job training for college credit. This is a program-related work in the automotive field. Credit is awarded for completion of specific learning objectives in the program major. Internships will be paid or unpaid as determined by the employer.

AUTO 2150 – Manual Transmissions & AC **6 cr**

Prereq: All 1000 level automotive courses w/C grade or higher. This is a National Automotive Technician Education Foundation (NATEF) certified training course covering the diagnostic and repair procedures involved in automotive heating, air conditioning, manual transmissions, transaxles, four wheel drive systems, and final drive components.

AUTO 2250 – Automatic Transmissions **6 cr**

Prereq: All 1000 level automotive courses w/C grade or higher. This is a National Automotive Technician Education Foundation (NATEF) certified training course covering the in-vehicle and off-vehicle diagnostic and repair procedures involved in automotive automatic transmissions and transaxles, and continuous variable transmissions (CVT).

AUTO 2350 – Engine & Emission Controls I **6 cr**

Prereq: All 1000 level automotive courses w/C grade or higher, or equivalent industry experience. This is a National Automotive Technician Education Foundation (NATEF) certified training course covering the diagnosis and repair of automotive engine performance and emission-related problems. The course includes, but is not limited to, the diagnosis and testing of ignition, fuel delivery, and emission systems.

AUTO 2450 – Engine & Emission Controls II **6 cr**

Prepreq: All 1000 level automotive courses and AUTO 2350 w/C grade or higher, or equivalent industry experience. This is a National Automotive Technician Education Foundation (NATEF) certified training course covering the diagnosis and repair of automotive engine performance and emission-related problems. The course includes, but is not limited to, the diagnosis and testing of ignition, fuel delivery, and emission systems.

AVAD 1010 – Airport Systems & Facilities **3 cr**

An overview of basic internal and external organizational structures and common infrastructure associated with airports. Specific topics discussed include types of airports in the US, airport administrative and regulatory structures, National Plan of Integrated Airport systems [NPIAS], airport jobs and career paths, public relations, infrastructure and facilities, airspace and Air Traffic Control.

AVAD 1020 – Airport Operations & Administration **3 cr**

An overview of the operational and administrative processes associated with modern airports. Specific topics discussed include airport regulations governing planning, management and operations, security processes and procedures, financial management, capacity and delay, economic, political and social roles of airports, airport master planning process and the future of airport management.

BIOL 1010 – Intro to Biology (BS) 4 cr

Prereq: RDG 0900 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1015. For non-science majors. The study of living organisms from bacteria to plants and animals. Introduces cell structures and physiology, inheritance, evolution, and classification. Three hours of lecture per week; additional lab component (BIOL 1015) required.

BIOL 1015 – Intro to Biology Lab (BS) 0 cr

Coreq: BIOL 1010; required lab component of BIOL 1010. Laboratory study, experimentation, and analysis illustrating important biological principles. One laboratory session per week.

BIOL 1030 – Intro to Plant Biology (BS) 4 cr

Prereq: RDG 0900 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1035. For non-science majors. An introduction to plant form, function, and reproduction and a survey of the plant kingdom. Three hours of lecture per week with additional lab component (BIOL 1035) required.

BIOL 1035 – Intro to Plant Biol. Lab (BS) 0 cr

Coreq: BIOL 1030; required lab component of BIOL 1030. Important aspects of plant biology are illustrated. Lab activities include: plant anatomy, physiology, life cycles, and a survey of the plant kingdom. One laboratory session per week.

BIOL 1050 – Intro to Animal Biology (BS) 4 cr

Prereq: RDG 0900 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1055. For non-science majors. Topics include: animal classification, evolution, and diversity. Three hours of lecture per week with additional lab component (BIOL 1055) required.

BIOL 1055 – Intro to Animal Biol. Lab (BS) 0 cr

Coreq: BIOL 1050; required lab component of BIOL 1050. Activities include: use of the microscope, cell structures, evolution, animal development and systematics, and a survey of animal phyla. One laboratory session per week.

BIOL 1070 – Intro to Marine Biology (BS) 4 cr

Prereq: RDG 0900 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1075. Introductory study of Biology focusing on marine biological systems. Intended for non-science majors. Three hours of lecture per week with additional lab component (BIOL 1075) required.

BIOL 1075 – Intro to Marine Biol. Lab (BS) 0 cr

Coreq: BIOL 1070; required lab component of BIOL 1070. Students will study marine plants, plankton, invertebrates and vertebrates. One laboratory session per week.

BIOL 1090 – Human Biology (BS) **3 cr**

Prereq: RDG 0900 w/C grade or better, or appropriate Accuplacer score. Focuses on humans as biological entities. Introduces the scientific process, chemical and cellular bases of life, role of DNA in the continuity of life, evolution, and interrelationships among humans and other living organisms. Three hours of lecture per week.

BIOL 1120 – Intro. Conservation Biol (BS) **3 cr**

Prereq: RDG 0900 w/C grade or better, or appropriate Accuplacer score. Introductory biology course that focuses on the patterns and processes that create biological diversity. Examines causes and consequences of diversity losses from genes-ecosystems. Also analyzes approaches to preventing diversity loss.

BIOL 1400 – Environmental Science (ID) **4 cr**

Coreq: BIOL 1405. Survey of contemporary environmental issues related to conservation and management of natural resources concurrent with increasing socioeconomic and human population demands. Topics such ecology, eco-psychology, resource management, soil and food production, water and air pollution, solid and hazardous waste, global climate change and environmental economics will be emphasized.

BIOL 1405 – Environmental Science Lab (ID) **0 cr**

Coreq: BIOL 1400; required lab component of BIOL 1400. Scientific principles and data collection needs for gaining an understanding of environmental challenges on local, regional, and global scales will be emphasized in the Laboratory. Some field trips may be required.

BIOL 1610 – College Biology I (BS) **4 cr**

Prereq: MATH 0990 w/C grade or better, or appropriate Accuplacer score; RDG 0990 w/C grade or better, or appropriate Accuplacer score. Coreq: BIOL 1615. Content: biological chemistry , cell structure, metabolism, genetics, evolution, and diversity. Three hours of lecture per week with additional lab component (BIOL 1615) required.

BIOL 1615 – College Biology I Lab (BS) **0 cr**

Coreq: BIOL 1610; required lab component of BIOL 1610 College Biology I.

BIOL 1617 – College Biology I Workshop **1 cr**

Coreq: BIOL 1610. This course is designed to be a supplement to BIOL 1610. Content: biological chemistry, cell structure, metabolism, genetics, evolution, and diversity.

BIOL 1620 – College Biology II **4 cr**

Prereq: BIOL 1610 w/C grade or better. Coreq: BIOL 1625. For Biology/Science majors. Content: evolution, diversity, structure and function of plants, structure and function of animals, and ecology. Three hours of lecture per week with additional lab component (BIOL 1625) required.

BIOL 1625 – College Biology II Laboratory **0 cr**

Coreq: BIOL 1620; required lab component of BIOL 1620. Laboratory observation and experimentation to enhance understanding of evolution, diversity, and ecology. Three hours of lab per week with additional lecture component (BIOL 1620) required.

BIOL 2000 – CO-OP Education **2-4 cr**

Prereq: Sophomore standing, minimum 2.0 GPA, study-related employment of at least 20 hrs/week and approval of director of cooperative education, Instructor approval. Work experience in business, industrial, or government environment related to program major. Credit awarded upon completion of specific objectives.

BIOL 2020 – Cell Biology **4 cr**

Prereq: BIOL 1610 w/C grade or better. Coreq: BIOL 2025. For biology/science majors. Topics covered include cell division, organelle structure and function, gene expression, cytoskeleton, and extracellular matrix. Three hours of lecture per week with additional lab component (BIOL 2025) required.

BIOL 2025 – Cell Biology Lab **0 cr**

Coreq: BIOL 2020; required lab component of BIOL 2020. Introduction to some of the basic lab techniques in modern cell biology. Lab activities include: microscopy, cell fractionation and analysis of cellular components. One laboratory session per week.

BIOL 2030 – Genetics **4 cr**

Prereq: BIOL 1610 w/C grade or better AND CHEM 1210 w/C grade or better. Coreq: BIOL 2035. For biology/science majors. An introduction to the principles of genetics. Topics include: transmission (Mendelian), molecular, and population genetics. Three hours of lecture per week with additional lab component (BIOL 2035) required.

BIOL 2035 – Genetics Lab **0 cr**

Coreq: BIOL 2030; required lab component of BIOL 2030. Hands-on and computer-simulated laboratory investigations of genetic processes. Lab emphasizes data analysis and complements information learned in the lecture. One laboratory session per week.

BIOL 2060 – Microbiology **4 cr**

Prereq: BIOL 1610 w/C grade or better. Coreq: BIOL 2065. For HS and biology/science majors. A survey of microbiological principles related to human health. Covers taxonomy, cell structure, physiology, and genetics of microorganisms. Three hours of lecture per week with additional lab component (BIOL 2065) required.

BIOL 2065 – Microbiology Lab **0 cr**

Coreq: BIOL 2060; required lab component of BIOL 2060. Introduces practical aspects of microbiology. Lab activities include: microscopy, cell culture, staining, and techniques for characterizing and identifying bacteria. One laboratory session per week.

BIOL 2220 – Ecology **4 cr**

Prereq: BIOL 1610 w/C grade or better. Coreq: BIOL 2225. For biology/science majors. Intro to ecological and evolutionary principles, including: population interactions, ecosystem structure/function, energy flow, and biogeography. Three hours of lecture per week and additional lab component (BIOL 2225) required.

BIOL 2225 – Ecology Lab **0 cr**

Coreq: BIOL 2220; required lab component of BIOL 2220. This lab provides an introduction to ecological methods, measurements, and data analysis. One laboratory session per week.

BIOL 2320 – Human Anatomy **4 cr**

Prereq: BIOL 1610 w/C grade or better. Coreq: BIOL 2325. For HS and biology/science majors. Intro to the structure of the human body using a systemic approach. Structural relationships are evaluated by macro and microanalysis. Three hours of lecture per week and additional lab component (BIOL 2325) required.

BIOL 2325 – Human Anatomy Lab **0 cr**

Coreq: BIOL 2320; required lab component of BIOL 2320. Hands-on evaluation of anatomical structures using microscopes and dissection. Human cadavers, histology slides and human/animal body parts are used as study materials. One laboratory session per week.

BIOL 2327 – Instr. Exp. in Human Anatomy **3 cr**

Prereq: BIOL 2320 w/B grade or better. For Biology/Science or Health Science majors. Mentoring students on the structure of the human body. Cell types, tissue types, and the major organ systems, including integumentary, skeletal, muscular, nervous, cardiovascular, endocrine, respiratory, lymphatic, digestive, urinary and reproductive. One hour of lecture, four hours of lab weekly.

BIOL 2350 – Field Studies in Biology **1-6 cr**

Prereq: BIOL 1610 w/C grade or better. For biology/science majors. This course provides an introduction to field studies of local environments and ecosystems.

BIOL 2420 – Human Physiology **4 cr**

Prereq: BIOL 1610; CHEM 1110 or CHEM 1210 (all w/C grade or better). Coreq: BIOL 2425. For HS and biology/science majors. A cellular and systemic approach to the study of body functions, including physical and chemical processes and interactions among the systems. Three hours of lecture per week and additional lab component (BIOL 2425) required.

BIOL 2425 – Human Physiology Lab **0 cr**

Coreq: BIOL 2420; required lab component of BIOL 2420. Hands-on lab investigations of physiological processes. Includes data acquisitions, analysis of cardiovascular, respiratory, digestive, immune and muscular systems. One laboratory session per week.

BIOL 2900 – Special Topics in Biology **1-5 cr**

Prereq: Defined by instructor. Special topics for students majoring in biology or other science fields. Satisfies Biology Department elective requirement toward AS degree.

BIOL 2990 – Independent Study **1-2 cr**

Prereq: BIOL 1610 w/C grade or better. For biology/science majors. This independent study is based on a student-selected biological topic. It may involve laboratory, field and/or library study.

BLA 1110 – Bricklayer 1A **5 cr**

Prereq: APPR 1470 w/C grade or higher, or appropriate Accuplacer score. This course teaches the basics of brick laying, proper tool handling and safety, layout and course measurements.

BLA 1120 – Bricklayer 1B **5 cr**

Prereq: BLA 1110 w/C grade or higher. This course presents the basics of block masonry and the proper and safe use of tools and equipment.

BLA 1210 – Bricklayer 2A **5 cr**

Prereq: BLA 1120 w/C grade or higher. This course covers the joining of materials including brick to block, block to stone, arches, and more.

BLA 1220 – Bricklayer 2B **5 cr**

Prereq: BLA 1210 w/C grade or higher. This course presents the final math portion of the program as it relates to the masonry trade. Also refractory, which is industrial masonry, with safe use of tools and equipment.

BLA 2310 – Bricklayer IIIA **5 cr**

Prereq: BLA 1220 w/C grade or higher. This is the first part of an advanced course in which bricklayers will learn and improve basic skills which are essential to the trade. Students will concentrate on learning tools and their proper use, joining materials such as brick and block, block and stone, turning arches, sills and anchoring systems, etc.

BLA 2320 – Bricklayer IIIB **5 cr**

Prereq: BLA 2310. This is the second part of an advanced course in which bricklayers will learn and improve basic skills which are essential to the trade. Students will concentrate on learning tools and their proper use, joining materials such as brick and block, block and stone, turning arches, sills and anchoring systems, etc.

BMAN 1110 – Intro to Biomanufacturing (ID) 3 cr
Provides an introduction to biotechnology product manufacturing. Focuses on history of the industry, the required multidisciplinary approach, the details of the manufacturing process, and related legal, social, and ethical issues.

BMAN 1120 – Basic Biomanufacturing Skills 1 cr
Prereq: BMAN 1110 (can be taken concurrently) or instructor permission. Provides a basic understanding of the core skills required for working in a manufacturing environment typical of biotechnology companies and reinforces critical thinking skills.

BMAN 1130 – Bioengineering in Society (ID) 3 cr
Explores the impact of bioengineering in society by examining the history of the field, multidisciplinary involvement, technological innovations, medical needs addressed, and product design and manufacturing challenges.

BMAN 1150 – Bioman Quality System and Regs 3 cr
Prereq: BMAN 1110 and 1120 w/C grade or better or instructor permission. Provides thorough understanding of the quality system and regulations associated with biomanufacturing.

BMAN 1180 – Biomanufacturing Experience 2 cr
Prereq: BMAN 1110 and 1120 w/C grade or better or instructor permission. Provides hands-on biotechnology product manufacturing experience, and reinforcement of previously learned concepts, skills, and critical thinking ability.

BMAN 2110 – Good Manufacturing Practices 1 cr
Prereq: BMAN 1150 and 1180 w/C grade or better or instructor permission. Provides foundational knowledge of good manufacturing practices governing the manufacture of biotechnology products. This is key knowledge to working effectively at biomanufacturing companies.

BMAN 2120 – Verification and Validation 2 cr
Prereq: BMAN 1150 and 1180 w/C grade or better or instructor permission. Provides theoretical knowledge of verification and validation principles as well as practical hands-on training of general methodologies typically used for verification and validation in a biomanufacturing setting.

BMAN 2130 – Measurement Fundamentals 2 cr
Prereq: BMAN 1150 and 1180 both w/C grade or higher, or instructor permission. Provides the fundamentals of measurement as well as practical hands-on training to reinforce measurement and calibration concepts and skills typically used in a Biomanufacturing setting.

BMAN 2910 – STUDENTfacturED Internship **1-4 cr**

Prereq: BMAN 1150 or 1180 w/C grade or better or instructor permission. Provides contextual, real-world experience and an opportunity to reinforce previously learned concepts, skills, and critical thinking ability related to business and technical job functions typical of biotech manufacturing companies.

BTEC 1010 – Intro to Biotechnology **3 cr**

Prereq: MATH 0990 and RDG 0990 w/C grade or better or equivalent placement test score. Coreq: BTEC 1015. This course teaches students the history, branches, and applications of the biotechnology industry. It also examines the scientific basis for biotechnology products and examines the ethical and legal aspects important in the industry.

BTEC 1015 – Intro to Biotechnology Lab **1 cr**

Prereq: MATH 0990 and RDG 0990 w/C grade or better or equivalent placement test score. Coreq: BTEC 1010. This course teaches students fundamental theoretical and practical hands-on knowledge of commonly used instruments, preparation of solutions, reagents, and methodology used in the life science laboratory.

BTEC 1030 – Biotechnology Seminar **2 cr**

Prereq: BTEC 1010 and 1015 w/C grade or better. This course teaches students to search, comprehend, and evaluate scientific literature. Students will develop analytical and communication skills necessary to succeed as a productive team member in the biotech field.

BTEC 1060 – Nucleic Acid/Protein Biotech **2 cr**

Prereq: BTEC 1010 and BIOL 1610 w/C grade or better. The chemistry of DNA, RNA and proteins will be the foundation for learning about the biological structure, function and analysis of these macromolecules.

BTEC 1080 – Biotechnology Experience **3 cr**

Prereq: BTEC 1010 and 1015 w/C grade or better. This course is an early hands-on research experience in which students conduct mentored research activities. Students apply their knowledge to specific research topics assigned by Biotechnology faculty/staff.

BTEC 2010 – Applied Molecular Biology **3 cr**

Prereq: BTEC 1010 and 1015 w/C grade or better and BIOL 1610 w/C grade or better. This course teaches students practical aspects of DNA technology that includes restriction digestion, properties of plasmids, recombinant DNA cloning, gel electrophoresis, the polymerase chain reaction and protein expression.

BTEC 2020 – Biomolecular Sep and Analysis **3 cr**

Prereq: BTEC 2010 w/C grade or better. Purification and analysis techniques that are applied to biologically active substances are taught. Attention will be given to protein purification and analysis and includes immunological, electrophoretic, and chromatographic technologies.

BTEC 2030 – Cell Culture **2 cr**

Prereq: BTEC 2010 w/C grade or better. Methods of eukaryotic cell culture are taught. Students learn proper techniques to handle, store, and maintain cells in culture. Includes specialized analysis techniques to probe various aspects of cell biology relevant to biotechnology.

BTEC 2040 – Advanced Molecular Methods **3 cr**

Prereq: BTEC 2010 w/C grade or better. This course teaches advanced concepts used in genetic engineering and analysis of gene expression. These include principles of DNA sequencing, quantitative PCR, mutagenesis, and reverse transcription.

BTEC 2050 – Bioinformatics **2 cr**

Prereq: BTEC 2010 w/C grade or better. Students will learn to use computer programs and software to gather, store, analyze and integrate biological data from sources such as whole genomes and other relevant databases. Previous computer knowledge is not needed.

BTEC 2060 – Biotechnology Instrumentation **3 cr**

Prereq: CHEM 1110 and 1115 w/C grade or better; BTEC 1080 or 2100, and BTEC 2010, or BMAN 1150 and 1180 w/C grade or better, or instructor permission. Provides a comprehensive understanding and operational training of instrumentation commonly used in the biotechnology industry, including operational principals, best practices, maintenance procedures, and user-achievable repairs.

BTEC 2100 – Biotechnology Research **4 cr**

Prereq: BTEC 1080 w/C grade or better or instructor permission. This course is a capstone research experience in which students conduct high level mentored research activities on specific research topics assigned by Biotechnology faculty/ staff or in collaboration with biotechnology companies.

BTEC 2900 – Spec. Topics in Biotechnology **2-5 cr**

Prereq: By instructor permission only. Defined by the instructor for students majoring in Biotechnology. Students must contact the instructor prior to registering for the course.

BUS 1010 – Introduction to Business (IN,HR) **3 cr**

This is an introductory business course which will expose students in the diverse world of business, revealing how each of us is connected to business personally, professionally, and how business connects us culturally and socially. Students will learn how individuals function within a specific field and how various disciplines work together in cross functional teams.

BUS 1040 – Ethics at Work (ID) 3 cr
Students develop judgment about workplace ethics through critical reading, thinking, writing, research and analysis; consider issues from multiple disciplines/opposing views; choose research/Service Learning related projects and write reports.

BUS 1050 – Foundations of Business (ID) 3 cr
Prereq: ENGL 1010 or concurrently, or that students have compatible writing skills. Historical, sociological and philosophical overview of the fundamental aspects of business. Topics include business in a world in change, socioeconomics, the human factor and ethics in the workplace and social responsibility in a global market.

BUS 1100 – Applied Business Calculus 3 cr
Prereq: MATH 1050 or MATH 1090. This course examines the mathematics of calculus applied to business applications. Polynomial and exponential functions, mini-maxi theory, limits, derivatives and integration will be reviewed.

BUS 1900 – Special Projects/DECA 2 cr
This class provides you the opportunity to apply business techniques and strategies in various hands-on projects and activities. Collegiate DECA is an international professional organization which has four basic objectives to achieve: Vocational Development, Social Intelligence, Social Consciousness, and Leadership Development.

BUS 1910 – Special Projects (PBL) 2 cr
Students participate in the Phi Beta Lambda organization which promotes competent, aggressive business leadership; understanding of American free enterprise; setting of career goals; building character and self-confidence.

BUS 2200 – Bus. Communications (CM,IN) 3 cr
Prereq: ENGL 1010 w/C grade or better. Students develop critical reading, thinking, listening, speaking and writing skills for business; conduct research, assess communication situations, make effective arguments, work in teams and present research/Service Learning related projects.

CCLA 1110 – Construction Craft Laborer 1A 5 cr
An introductory course in the construction craft. Students will gain a basic knowledge of construction safety, hand and power tools, blueprint reading, and an introduction to concrete and building related materials.

CCLA 1120 – Construction Craft Laborer 1B 5 cr
Prereq: CCLA 1110. This course provides students with knowledge and skills concerning foundations and slab on grade methods, and methods for reinforcing, handling and placing concrete and introduces distance measuring and leveling techniques.

CCLA 1210 – Construction Craft Laborer 2A **5 cr**
Prereq: CCLA 1120. This course provides students with an in-depth understanding of vertical and horizontal forms. An introduction to crane operation will also be presented.

CCLA 1220 – Construction Craft Laborer 2B **5 cr**
Prereq: CCLA 1210. This course provides a basic understanding of ironworking, electrical safety, construction equipment operation, oxy-fuel cutting, and safety concerns associated with high rise construction.

CEAB 0001 – Accelerated Block Program **0 hrs**
Offset costs of developing, updating and maintaining accelerated program.

CEAE 0100 – Electrical Principles for Alternative Energy **45 hrs**
Designed to provide students with a basic understanding of electrical principles and the National Electric Code pertaining to the alternative and renewable energy fields.

CEAE 0200 – Basic Photovoltaic Systems **45 hrs**
Prereq: CEAE 0100 w/ C grade or better or instructor approval. This course teaches students the basic operating principles of a utility interactive solar photovoltaic system, how to conduct a site evaluation, perform a financial analysis and effectively design a photovoltaic system.

CEAE 0300 – Advanced Photovoltaic Systems **45 hrs**
Prereq: CEAE 0200 w/C grade or better or instructor approval. This course builds upon the foundation of knowledge students acquire in the Basic PV course.Successful students will be able to adapt mechanical or electrical designs; perform system checkouts and inspections; design, install, maintain and troubleshoot commercial and off-grid photovoltaic, battery based systems. Students will assemble and troubleshoot full systems at the Solar Training Yard.

CEAE 0410 – NEC 2014 Solar Photovoltaics **8 hrs**
Course covers 2014 NEC requirements that govern solar installations. Gain understanding of solar pv electrical energy systems and how they relate to other electrical power poduction sources.

CEAE 0500 – NABCEP PV Cert Exam Prep **16 hrs**
Review of course materials and procedures for students accepted by N A B C E P to sit for their Solar PV Installer Certification exam. Bring the Natoinal Electric Code Book (not handbook) Calculator, Pencil and Highlighter.

CEAE 0510 – NABCEP Entry Level Exam Prep **6 hrs**
Review of materials, procedures and task analysis details for students planning to take the N A B C E P Entry Level Exam. SLCC Miller Campus Testing Center is an authorized provider of the computer based test.

CEAL 0100 – Transition to Teaching **0 hrs**
This orientation class will assist students who have a Bachelors degree in a subject area taught in Utah schools make a successful transition to teaching through the ARL program.

CEAL 0200 – Managing Behavioral Problems **0 hrs**
Students will learn problem solving skills that will assist them with behavior problems in their classes. Disruptive behaviors will be addressed and strategies to prevent reoccurence will be taught.

CEAT 0600 – CDL 3rd Party Tester Training **0 hrs**
This training will certify individuals through the Dept of Public Safety, Drivers License Division to administer the CDL road test.

CEBC 0003 – Fast Trac New Venture **0 hrs**
Comprehensive entrepreneurship-educational program that provides entrepreneurs with business insights, leadership skills and professional networking so that they are prepared to create a new business or expand an existing enterprise.

CEBC 0004 – Fast Trac Planning **0 hrs**
Designed to look at and evaluate business. Take a hard look at all aspects of a company and write a new business plan.

CEBC 0005 – Intellectual Property Seminar **0 hrs**
An IP workshop that will cover Patents, Patentable subject matter, Anatomy of a patent. Outline of patent examination procedure. Changes from the America Invents (2012). Patent infringement. Designing around a patent. Ownership and International patent protection.

CEBC 0007 – Financial Tools Essntl for SB **0 hrs**
This course goes over all the financial needs a small business will encounter

CEBC 0008 – Self-Employment Workshop LDS **0 hrs**
Learn the basics of starting a business and discover the resources in the community to help you manage and improve your business.

CEBC 0009 – Meet the Money People **0 hrs**

Meet the Money People event will introduce you to current finance options for starting or growing your business. Hear from several prominent finance sources in Utah and learn what type of financing may best fit your needs. This valuable event is highly recommended for entrepreneurs seeking start-up financing, business owners seeking growth funding and all businesses wishing to understand financing alternatives to improve their operations.

CEBC 0010 – Money and How to Get It **0 hrs**

This class is about the types of financing available, what type of financing would be appropriate for your business and how to go about finding and qualifying for funds.

CEBC 0011 – Marketing Workshop Series **0 hrs**

This marketing workshop series will teach participants how to promote a business using effective strategies while saving time and money doing so. 10 trade secrets to bet on. What methods to use and why for targeting prospects. Image and branding - Disney vs. Lagoon. How to make advertising successful. The difference between direct response and brand advertising. How to overcome a customers' lack of trust.

CEBC 0013 – Fast Trac - First Step **0 hrs**

11 week course: Communicating the business concept, gathering information for feasibility, product and services.

CEBC 0015 – Internet Marketing **0 hrs**

Learn how to market your business online and how to keep it in the top of all major search engines.

CEBC 0016 – Market Research **0 hrs**

Help with operating a business. Covers information related to establishing business operations and how a busiiness plan can help organize a business. Technical, marketing, financial, and human resource issues will be covered.

CEBC 0017 – Strategic Marketing **0 hrs**

Class for any owner, manager or officer of a small business. Covers 4 essential financial statements - 5 basic analysis tools and more.

CEBC 0018 – Start Smart **0 hrs**

Start Smart Orientations is a 2 hour workshop providing an overview of all services provided by SL SBDC program. Covers basic requirements of starting and growing a business in Utah.

CEBC 0019 – Financing Your Business Conf **0 hrs**

Mini-conference on financial strategies for start-ups and the established small business operator.

CEBC 0020 – My New Enterprise **0 hrs**
Essential business information to help you develop your entrepreneurial skills and build your business on a strong foundation. Build a Business Plan.

CEBC 0021 – Internet Marketing **0 hrs**
Introduction to the basic concepts on internet marketing. Great for anyone who wants to launch a web site for business. Helps to determine which types of internet marketing are right for your business.

CEBC 0022 – The Optimal Path **0 hrs**
Introduction and development from a Business Idea to a Business Model and Business Plan.

CEBC 0034 – 7 Habits of Small Bus Mgrs **0 hrs**
7 essential habits that highly effective managers share.

CEBC 0045 – Nail It Then Scale It Workshop **0 hrs**
Join the ranks of today's most innovative entreprenuers and experience success through the Nail It Then Scale It (NISI)Method.

CEBC 0047 – Law School for Small Business **0 hrs**
Receive expert legal advice on todays hottest legal topics facing entrepreneurs.

CEBC 0060 – SB Emp Tax Withholding **0 hrs**
Learn about witholding income for federal/state taxes, social security, workers compensation insurance and unemployment compensation. Completing employment tax forms and depositing taxes. Presented by IRS, Tax commision, Workforce Services, and Labor Commission.

CEBC 0061 – Sole Proprietor **0 hrs**
Offers help for business owners to understand and comply with federal/state statutes and reporting requirements for Sole Proprietors.

CEBC 0062 – SCORE Training **0 hrs**
How to form a limited liability company.

CEBC 0063 – Choosing A Business Entity **0 hrs**
Class addresses the potential liabilities and tax considerations when choosing a legal structure for your business.

CEBC 0065 – LLC Workshop & S-Corp **0 hrs**
Help for business owners to understand and comply with federal/state statutes and reporting requirements for LLC.

CEBC 0069 – How to Find Customers **0 hrs**

Explores the pitfalls and common mistakes made by most new businesses. Identifying your companys top priorities how to identify your business competitive advantages. 6 rules for creating good messaging.

CEBC 0070 – Partnership Workshop **0 hrs**

Help business owners understand and comply with federal/state statutes and reporting requirements.

CEBC 0100 – Salt Lake SBDC - Counseling **0 hrs**

Salt Lake SBDC Counseling Sessions. Sessions run for 1 hour and .5 hours for prep and reporting.

CEBI 0001 – Biz Net Connect **0 hrs**

MBIC/SBDC monthly business networking event.

CECA 0100 – Career Transitions **0 hrs**

Thinking of making a career shift? Career Transitions is a useful guide that will equip you with tools that will assist you in creating a personal inventory of interests, knowledge, education and skills. This information will assist students to identify and assess potential career options to map out a better future.

CECD 0200 – BIM for Contractors - I **0 hrs**

Specific Construction Management context. What is BIM? Definitions and introduction into terminology. Software introduction into various types and functions of the BIM software. Hardware needed; Intro to Revit/Revit Structure/Revit MEP, Navigation, Navisworks, BIM basic Project Management.

CECD 0201 – BIM for Contractors - II **0 hrs**

Build more for BIM managers and those individuals who will interact at a higher level with the technology. The recommended Technology would be Navisworks Manage, Sketch up and Revit Architecture.

CECD 0205 – Navisworks Manage 2011 **0 hrs**

Autodesk Navisworks Manage provides the most complete Navisworks design project review solution. Includes the functionality of both Autodesk Navisworks Review and Autodesk Navisworks Simulate.

CECD 0206 – Advanced Navisworks Manage **0 hrs**

Advanced Navisworks Manage is Continuation of Navisworks I. Hands on lab work exploring the work flow processes of Timeliner, Clash Detective, & Presenter. Attendees will learn through hands-on lab work the necessary work flow process involved in using Timeliner, Clash Detective and Presenter. A basic understanding of Navisworks functions, navigation and tools should be understood before taking the course.

CECD 0300 – AutoDesk Revit Architecture **0 hrs**
Covers basics of Revit Architecture, from schematic design through construction documentation introduces student to the concepts of building information modeling and tools for parametric building design and documentation.

CECD 0301 – Revit MEP **0 hrs**
Building information modeling and the tools for parametric MEP systems design and documentation using Autodesk Revit MEP.

CECD 0302 – Autodesk Revit MEP-HVAC Plumb **0 hrs**
Revit MEP basics specifice to HVAC/Plumbing.

CECD 0303 – Autodesk Revit MEP-Electrical **0 hrs**
Revit MEP basics-specific to electrical.

CECD 0304 – Advanced Revit Architecture **0 hrs**
Advanced Revit Architecture, Parametric building modeler for architects that allow changes anytime, anywhere in the design process.

CECD 0305 – Autodesk Revit Families **0 hrs**
Extrusions, blends, reference lines and planes, family categories, labels parameters, type catalogs, constraints and connectors.

CECD 0306 – Revit Structure **0 hrs**
Learn about building information modeling and the tolls for parametric structural design and documentation. Will learn the fundamental features of Revit Structure, Schematic Design, and construction documentation.

CECD 0400 – AutoCAD I **0 hrs**
Over 70 percent of the 2D drafting commands are covered. Draw, edit, construct and display drawings. Learn to use layering, dimensioning and text to create simple drawings with notes and title blocks. Finally, plot these drawings.

CECD 0410 – AutoCAD LT Essentials **0 hrs**
Teaching the features, commands and techniques for creating, editing and printing drawing with AutoCAD LT. Topics include annotation, hatching, dimensioning, layers and line types and working with reusable content.

CECD 0500 – AutoCAD II **0 hrs**

Increase efficiency by using blocks, attributes, xrefs and paper/model space. Learn dimensioning variables, dimension styles, grips, hatching and splined curves. Learn to import and export data with AutoCAD.

CECD 0610 – AutoCAD 2002 Update **0 hrs**

One day workshop covering new features of AutoCAD 2002.

CECD 0620 – Transitioning From AutoCAD2002 **0 hrs**

This course will introduce the student to the significant changes in AutoCAD from AutoCAD 2002 to AutoCAD 2006.

CECD 0700 – AutoLISP **0 hrs**

This course teaches you how to use proper syntax and functions to create programs that will streamline your drawing process. Become more productive with AutoLISP.

CECD 0730 – Autodesk Civil 3D **0 hrs**

Students learn to create and edit points, alignments, and profiles, and to create and analyze surface data. They will perform corridor modeling, create subassemblies and cross-sections, and perform grading operations.

CECD 0830 – Architectural Desktop I **0 hrs**

Learn how to use new tools for mass modeling, space planning, grid layout, object anchoring and presentation. Learn to create and manipulate intelligent 3D wall, door, window, stair and roof objects and much more.

CECD 0840 – Land Development Desktop I **0 hrs**

Covers Autodesks Land Development Desktop software in detail. Topics include coordinate geometry, editing surfaces site analysis, parcel layout and design and horizontal alignments. Learn the project mgt and interface tools.

CECD 0880 – Solidworks **0 hrs**

A complete 3D CAD solution providing your design team with all of the data management and communication tools they need. Learn to work smarter and faster with this 3D CAD software. Learn to use time saving tools to develop better products.

CECD 0881 – Advanced Solidworks **0 hrs**

A complete 3D CAD solution providing tour design team with all of the data management and communication tools. Learn to work smarter and faster with SolidWorks.

CECD 0890 – Autodesk Inventor Level I **0 hrs**

Learn to create, edit, document, print, analyze, dimension and produce 2D sketches and 3D parametric parts and assemblies. Also learn basic 3D modeling techniques and become familiar with Inventors Design Support System.

CECD 0905 – AutoCAD Electrical **0 hrs**

Students will learn the important features of AutoCAD Electrical, building schematics, panels and circuits reusing circuit and component information, customizing components, preparing reports from schematics.

CECD 0970 – Autodesk 3DsMax Design **0 hrs**

A complete end to end reference that provides users with complete info on all the features and options available in the latest version of 3DsMax design.

CECD 0980 – Autodesk 3ds Max Design II **0 hrs**

A complete end to end reference that provides users a complete info on all of the features and options available in 3ds max design. This is an advanced course.

CECI 0001 – Intro Competitive Intelligence **0-45 hrs**

The introductory course examines the principles, roles, responsibilities, and activities associated with CI-BI work, as well as the history of CI-BI. The learner will survey a range of functions, models, practices, processes, techniques, technologies, and tools that will be applied to basic, experiential projects.

CECI 0010 – Intermediate Competitive Intelligence **0-45 hrs**

Strategic Competitive Intelligence capitalizes on the intelligence life-cycle continuum learned in CI 1000. Companies must compete in order to increase customers, market share, revenue, and profit. Although competitive intelligence is still in its formative stages, many tools and techniques have been turned into best practices adopted by the more progressive firms. The intermediate course examines competition and intelligence, and how they became intertwined. Learners will construct useful frameworks for viewing the competitive environment. More in depth activities on sources, intelligence collection, gathering, reporting, and distribution will be investigated.

CECO 0003 – Composites Level I **4 hrs**

Students will learn how composite materials are designed, processed and manufactured.

CECO 0004 – Composites Level II **8 hrs**

This course focuses on the processing of materials used in the composites industry.

CECO 0005 – Composites Level III **8 hrs**

Course will teach advanced composite processes such as filament winding and nondestructive testing (NDT) of composite parts. Get skills for advanced processing and inspection of composite materials and finish work as well as using the autoclave.

CECO 0006 – Composites Exelis(ITT)New Hire **0 hrs**

Course for Exelis (ITT) new hire employees, learning the basics of composites.

CECP 0001 – Creative Problem Solving- Pers **0 hrs**

Solving problems is inherent to the human experience. When the right solution to a problem isn't clear, the skills of creative problem solving help you to correctly identify the problem, provide alternative ways to generate abundant ideas, and execute on a plan for success. Learn the steps and associated tools that have been proven to work for problems of all types, sizes and levels of complexity.

CECP 0010 – Creative Problem Solving- Team **0 hrs**

Teams operate best when ideas are allowed to flourish. When the right solution to a problems isn't clear, the skills of creative problem solving help teams to correctly identify the problem, provide alternative ways to generate abundant ideas, and execute on a plan for success. Learn the steps and associated tools that have been proven to work for problems of all types and sizes.

CECT 0006 – 2014 National Electrical Code **0.8 hrs**

Course will cover over 400 new codes and definitions of the 2014 NEC Requirements for electrical installations. Major changes allowing new forms of alternate energy to power electric vehicles will be studied.

CECT 0009 – Electrical Safety & Code Rev **0.8 hrs**

Course covers new code changes, existing code, and common mistakes made on job sites. Learn how to prevent costly mistakes resulting in fines and penalties. New rules on lugs and terminals and GFCI placement in residential dwellings reviewed. Safety, personal protective equipment, OSHA rules, grounding rules and motor control diagrams covered. Must bring a 2011 code book and a calculator to class.

CECT 0010 – LEED: Construction & Design **0-20 hrs**

Overview of LEED principles and the LEED rating system used to measure and certify buildings that employ green building principles in their construction and design.

CECT 0011 – Lead Based Paint Basics **0.1 hrs**

Lead causes a long list of learning and behavioral problems. As well as kidney disease, miscarriages and birth defects. Experts say lead poisoning doubles the number of children in special education. Studies also show lead plays a major role in crime rates. Any amount of lead is bad for you. This presentation will update you on the latest RRP industry happenings and how they may impact various construction trades.

CECT 0012 – Introduction to Asbestos **0.1 hrs**

This course is intended as a brief introduction and overview of asbestos. The course includes discussion on where asbestos comes from, how it is used in industry, and where it is found in everyday residential and commercial settings and products. Health effects are also discussed and include asbestosis, mesothelioma, and lung cancer.

CECT 0013 – Intro to Solar PV Industry **0.1 hrs**

Introduces the birth of photovoltaic technology; its development; market growth; industry; its different applications; and the variety of different solar technologies.

CECT 0014 – Solar PV Module Placement **0.1 hrs**

This presentation discusses the preferred placement of solar PV panels to maximum energy production and key considerations to take into account such as warranties, and added costs for common mounting methods and different roof types.

CECT 0015 – Home Energy Techniques **0.1 hrs**

The course presentation is a case study of a newly constructed home, illustrating innovative and cost effective energy-saving construction techniques. It argues that energy efficient construction is affordable and advantageous to the consumer and the community.

CECT 0020 – Mechanics' Liens in Utah **0.1 hrs**

Overview of mechanics lien laws to help contractors and suppliers become more familiar with current laws in Utah. Learn the steps you need to take to help protect your lien rights.

CECT 0021 – Energy & The Building Shell **0.1 hrs**

The presentation is an introduction into the concept of the building shell. Resistance to and conduction of energy across the building shell will be discussed. The learner will become familiar with the air and thermal barriers and recognize good building practices with respect to the building shell.

CECT 0022 – Air Leakage **0.1 hrs**

The presentation describes the need and importance of a building's air barrier. Common leakage areas and industry accepted preventative measures will be identified and discussed.

CECT 0023 – Insulation Windows & Doors **0.1 hrs**

INSULATION: The thermal barrier in a building will be described in detail in this discussion. Areas of thermal bridging and the need for thermal gaps will be reviewed.
WINDOWS 7 DOORS - The performance of windows and doors and their significance to overall building thermal performance will be discussed.

CECT 0024 – Greening the Workforce **0.1 hrs**

This course introduces the participant to the concept of 'green' building in commercial construction. Efforts being made to build a safe, productive, and sustainable workforce of craft professionals will be highlighted.

CECT 0025 – Home Air & Water Heating **0.1 hrs**

Various methods of heating air and water in the home will be discussed. A focus on energy efficient methods will be applied. Course sections include HVAC load calculations, HVAC duct calculations, types of heating systems, zoning systems, hot water energy usage, water heating energy - capacity & efficiently, and water system types.

CECT 0026 – Cooling, Lighting, Appliances **0.1 hrs**

This presentation reviews various methods of air conditioning including evaporative cooling, natural ventilation, whole house fan duct work, and + & - air pressure. The effect each method has on the overall energy performance of a building is presented in detail. Energy efficient lighting & appliances are reviewed. Lighting efficacy and other lighting concepts are presented.

CECT 0027 – Health & Safety **0.1 hrs**

This presentation will review the effects and concerns of space heating, cooling and ventilation on the health & safety of a building's occupants. Building ' health' protocols including Safety Policies & Procedures, IAQ, CO testing, common exhaust equipment in relation to ventilation are all reviewed in detail.

CECT 0028 – HERS Test Prep **0.1 hrs**

This presentation provides a study guide, test taking tips, and practice questions to help the student prepare to take the Home Energy Rating System (HERS) exam. Over a dozen test topics are reviewed.

CECT 0030 – Construction Insurance Issues **0-20 hrs**

This presentation will help contractors and material suppliers become more familiar with what their insurance policy may or may not cover and how they can best protect themselves in the event misfortune occurs as a result of their work.

CECT 0031 – Immigration Reform Control Act **0.1 hrs**

Hiring and documenting legal workers have gotten more complicated for contractors & small business owners. With laws recently passed at both the Federal and State level, this course will discuss the intricacies of properly completing the I-9 form as well as running E-verify on employees. Common mistakes that contractors make during this process will be reviewed.

CECT 0032 – Fair Labor Standards **0.1 hrs**

This course presents issues relevant to the Fair Labor Standards Act. Issues include major provisions such as coverage, minimum wage, overtime pay, youth employment and recordkeeping. Compliance and enforcement of the FLSA will also be addressed as a way to assist in decision making with employee hiring or use of independent contractors.

CECT 0033 – Workers' Compensation Issues **0.1 hrs**

In this presentation, issues concerning Experience Modification will be discussed in detail. Specific issues that will be covered include the definition, qualifications, comparison rates computation, E-mod Management, and the 'split point' change. Understanding these issues will help in making sound business decisions as they relate to staffing.

CECT 0034 – Insurance 101 **0.1 hrs**

This course analyzes insurance coverage, exclusions, and how to reduce the costs associated with liability insurance. Workers' compensation insurance covers, how to avoid violating the law when travelling out of state and other common efforts contractors make are reviewed. Major changes going into effect in 2014 relative to the Affordable Care Act (health care reform laws) will also be discussed.

CECT 0035 – Health Reform (Afford Care Act **0.35 hrs**

This presentation by two experts in the HR Field, will offer participants a detailed understanding of how to comply with the many requirements of the Affordable Care Act. The law will be examined from many perspectives including benefits, shared responsibility, affordability, and more.

CECT 0036 – Employee Handbook **0.15 hrs**

This presentation reviews - from a risk management perspective - employment law and guidelines to follow when drafting an Employee Handbook. Handbook sections range from Employment-at-Will and Welcome Letter to Security and Termination of Employment. Participants will be well prepared to draft a comprehensive Employee Handbook for their business that is ready for legal review.

CECT 0037 – OSHA Recordkeeping **0.1 hrs**

This course reviews OSHA recordkeeping requirements. The OSHA 300 Log, OSHA 300A and OSHA 301 will be reviewed in detail. In addition, the course reviews the criterion used to determine how work-related injuries and illnesses are to be documented. This course provides critical information that can be used by administrative personnel assigned to safety recordkeeping.

CECT 0039 – Legal System 101 Know Terms **0.1 hrs**

This course provides an overview of the U.S. legal system including the history, background, and context of the system. Participants will use what they have learned to successfully operate and manage a construction related business. Also covered in the presentation are the legal risks in the construction industry and strategies to minimize, allocate and manage those risks.

CECT 0040 – Litigating Construction Cases **0-20 hrs**

Litigation in construction cases is the focus. Pros and cons of alternative dispute resolution and the expense associated with litigation will be covered. Includes tips to avoid litigation in the future.

CECT 0050 – Construction Contracts in Utah **0-20 hrs**

Explore several common provisions in contracts and discuss how Utah law may enhance or modify provisions. Topics include: indemnification, alternate dispute resolution, prompt payment and attorney fees.

CECT 0060 – AIA/Consensus DOCS **0-20 hrs**

AIA A201 form and the new Consensus DOCS contracts endorsed by the Assn of General Contractors will be discussed. Recent changes along with suggestions for usage will be presented.

CECT 0070 – Advanced Leed Topics **0-20 hrs**

Course focuses on green building and energy conservation issues as taught by an expert in energy conservation- building and contractor issues.

CECT 0080 – Construction Law Updates **0-20 hrs**

Overview of how recent changes to laws by the Utah Legislature and the impact on a Contractors business. Review of regulations as they pertain to construction trades and how court decisions have impacted Utah contractors.

CECT 0088 – HVAC Energy Controls& Analysis **0.1 hrs**

HVAC energy analysis involves HVAC system engineering, equipment efficiencies, utility costs and lifecycle costs. The focus for this course is on chiller analysis, efficiency and energy costs. Understand control variable adjustments and supervisory control strategies aimed at energy conservation as well as control strategies for typical central cooling systems.

CECT 0089 – Building Code 101 **0.1 hrs**

This presentation is a brief overview of the International Code Council and National Fire Protection Association building code adopted by the State of Utah. Compliance to the current adopted codes is stressed as required for building construction across the state.

CECT 0090 – Intl Bldg Code/Commrcl Bldgs **0-20 hrs**

Review information on current International Residential Building Code requirements. Overview of the changes from 2003-2006 IRC and learn about the state of Utah Building Code amendments with respect to commercial buildings.

CECT 0110 – Intl Residential Code **0-20 hrs**

Review information on current Intl Residential Building Code requirements. Overview of the changes from 2003-2006 IRC and learn abouth the state of Utah Building Code amendments with respect to residential buildings.

CECT 0111 – Patent Protection Basics **0.1 hrs**

Learn the basics of patent law and how to obtain or interface with patent protection. Class offers step-by-step approach to patent your engineering method or design or interface and navigate around anothers patented rights.

CECT 0112 – Intellectual Prop & Copyright **0.1 hrs**

Review of Intellectual Property aspects and issues involved in the engineering and construction industry. Understand how to copyright-protect your engineering drawings or designs or handle anothers copyright protected material.

CECT 0113 – 7 Habits of Effec Contractors **0.3 hrs**

Contractors are led through a step by step process of how to run their contractor practice, their personal lives, their employees, and their organizations optimally and efficiently. From Dr. Stephen Coveys best-selling book.

CECT 0114 – 7 Habits of Contractor Manager **0.1 hrs**

Course teaches contractor managers how to develop and apply skills and optimum leadership in thier profession. Based on Dr. Stephen Coveys best selling book, The 7 Habits of Highly Effective People.

CECT 0120 – The New Face of Marketing **0.25 hrs**

From face-to-face to Facebook, the marketing landscape continues to evolve. Old school or new school, the objective remains the same: How do I send the right message, to the right person, at the right time? Marketing can make all the difference. This course merges marketing fundamentals with yesterdays and todays strategies with one objective: Getting results!

CECT 0121 – Construction Meets EPA **0.1 hrs**

A Supreme Court ruling has the potential to impose heavy regulations on commercial construction. Findings by the EPA indicate greenhouse gases pose a significant danger to health. While compliance has been pushed into the future, there are court challenges that could bring those regulations crashing down on the construction industry. This program will help you learn what impact they may have.

CECT 0122 – Green Certification & Ratings 0.1 hrs

This presentation provides an introduction to green building, what it is, and how it is applied via various green building rating systems in the United States.

CECT 0123 – OSHA & Multi-Employer Policy 0.1 hrs

We will discuss OSHAs role and what employers need to do to comply with the OSHA regulations. We will look at Inspections, PPE, OSHA Recordkeeping and Reporting, Hazard Communication, OSHA whistleblower laws and employee rights. We will also spend time looking at OSHAs focus four in regards to construction accidents. We will spend some time discussing OSHAs Multi-Employer Citation policy.

CECT 0124 – Profitability or Bust 0.1 hrs

Job costing is important to contractors to: prepare estimates, run and manage jobs, forecast jobs, and support forclaims and change orders. The key is determining your key performance indicators (KPIs) and accumulate, record and report costs accordingly.

CECT 0125 – Stix & Brix to Dollars &Sense 0.2 hrs

Business can be easier than we make it. This class will focus on the how tos of transitioning from trade specifics to business specifics. If you are losing sleep wondering what to do next with your business, this class is for you! Whether youre in survival mode or you want to gain market share, you will leave with some clear next steps to give you solid footing to achieving excellent results.

CECT 0198 – Theory Test Prep 1.6 hrs

Two-Saturday course prepares individuals to take the Theory Utah Journeyman or Master Electrical Exam by reviewing each of the primary theory topics covered when sitting for the electrical theory portion of the exam.

CECT 0199 – Code Test Prep 1.6 hrs

Two-Saturday course prepares individuals to take the Code Utah Journeyman or Master Electrical Exam by reviewing each of the primary code topics covered when sitting for the code portion of the exam.

CECT 0200 – Utah Code Book Review 0 hrs

Focus is on the DOPL Contractors State Code Book additions and supplements for the current year.

CECT 0201 – LEED 101 0.1 hrs

Overview of LEED (Leadership in Energy and Environmental Design) principles and the LEED rating system used to measure and certify buildings that employ green building principles in their construction and design.

CECT 0202 – Advanced LEED **0.1 hrs**

Course focuses on green building and energy conservation issues taught by an expert in energy conservation building.

CECT 0203 – Mechanics' Liens Law **0.1 hrs**

Overview of Mechanics lien laws and their relationship to current laws in Utah. Students will learn the steps they need to take to help protect their lien rights.

CECT 0204 – Insurance Legal Issue in Const **0.1 hrs**

Engineers will become more familiar with construction insurance policies, what they cover and how to protect yourself in the event of misfortune as a result of your work.

CECT 0205 – Litigating a Construction Case **0.1 hrs**

Litigation in construction cases is the focus of the lecture. The pros and cons of alternative dispute resolution and the expense associated with litigation. Session will conclude with tips to avoid litigation in the future.

CECT 0206 – Successful Contracts **0.1 hrs**

Explore several common provisions in construction related contracts and learn how Utah law may enhance or modify provisions. Topics include: Indemnification, alternate dispute resolution, prompt payment and attorney fees.

CECT 0207 – Construction Law Topics **0.1 hrs**

The AIA A201 (American Institute of Architects) form and the consensus DOCS contracts endorsed by the Association of General Contractors will be discussed. Recent changes along with the suggestions for usage will be presented.

CECT 0208 – Construction Legislative Topic **0.1 hrs**

Overview of how relatively recent changes to laws by the Utah Legislature in 2009 session impact an Engineer¿s business. Review of regulations as they pertain to construction trades and how court decision have impacted Utah contractors.

CECT 0209 – IBC Commercial Codes **0.1 hrs**

Information on current International Commercial Building Code requirements. Overview of the changes from 2003-2006 IRC and State of Utah Building Code amendments with respect to commercial buildings.

CECT 0210 – IRC Residential Code **0.1 hrs**

Review of current International Residential Building Code requirements. Overview of the changes from 2003-2006 IRC Utah Building Code amendments with respect to residential building.

CECT 0211 – 7 Habits of Engineer Managers **0.1 hrs**

Course teaches engineer managers how to develop and apply skills for optimum leadership in their profession. Based on Dr. Stephen Coveys best-selling book The Seven Habits of Highly Effective People.

CECT 0212 – 7 Habits of Effective Engineer **0.3 hrs**

Engineers are led through a step-by-step process of how to successfully apply time, relationship and Career Dev skills within engineering careers. Based on Dr Stephen Coveys best selling book, The Seven Habits of Highly Effective People.

CECT 0213 – 7 Habits of Engineer Mgrs CD **0.1 hrs**

Course teaches engineer managers how to develop and apply skills for optimum leadership in their profession. Based on Dr. Stephen Coveys bestselling book, The 7 Habits of Highly Effective People.

CECT 0214 – 7 Habits of Effect Engineer CD **0.3 hrs**

Engineers are led through a step by step process of how to successfully apply time, relationship and career dev skills within engineering careers. Based on Dr. Stephen Coveys bestselling book, The 7 Habits of Highly Effective People.

CECT 0215 – Patent Protection Basics **0.1 hrs**

Learn the basics of patent law and how to obtain or interface with patent protection. Class offers step-by-step approach to patent your engineering method or design or interface and navigate around anothers patented rights.

CECT 0216 – Intellectual Prop & Copyright **0.1 hrs**

Review of Intellectual Property aspects and issues involved in the engineering and construction industry. Understand how to copyright-protect your engineering drawings or designs or handle anothers copyright protected material.

CECT 0300 – LEED 101 **0.1 hrs**

Overview of LEED (Leadership in Energy and Environmental Design) principles and the LEED rating system used to measure and certify buildings that employ green building principles in their construction and design.

CECT 0301 – Advanced LEED **0.1 hrs**

Course focuses on green building and energy conservation issues taught by an expert in energy conservation building.

CECT 0302 – Mechanics' Liens Law **0.1 hrs**

Overview of Mechanics¿ lien laws and their relationship to current laws in Utah. Students will learn the steps they need to take to help protect their lien rights

CECT 0303 – Insurance Legal Issues in Cons **0.1 hrs**

Become more familiar with construction insurance policies, what they cover and how to protect yourself in the event of misfortune as a result of your work.

CECT 0304 – Litigating a Construction Case **0.1 hrs**

Litigation in construction cases is the focus of the lecture. The pros and cons of alternative dispute resolution and the expense associated with litigation. Session will conclude with tips to avoid litigation in the future.

CECT 0305 – Successful Contracts **0.1 hrs**

Explore several common provisions in construction related contracts and learn how Utah law may enhance or modify provisions. Topics include: Indemnification, alternate dispute resolution, prompt payment and attorney fees.

CECT 0306 – Construction Law Topics **0.1 hrs**

The AIA A201 (American Institute of Architects) form and the consensus DOCS contracts endorsed by the Association of General Contractors will be discussed. Recent changes along with the suggestions for usage will be presented.

CECT 0307 – Construction Legislative Topic **0.1 hrs**

Overview of how relatively recent changes to laws by the Utah Legislature in 2009 session impact an Engineer¿s business. Review of regulations as they pertain to construction trades and how court decision have impacted Utah contractors.

CECT 0308 – IBC Commercial Codes **0.1 hrs**

Information on current International Commercial Building Code requirements. Overview of the changes from 2003-2006 IRC and State of Utah Building Code amendments with respect to commercial buildings.

CECT 0309 – IRC Residential Code **0.1 hrs**

Review of current International Residential Building Code requirements. Overview of the changes from 2003-2006 IRC Utah Building Code amendments with respect to residential building.

CECT 0310 – Patent Protection Basics **0.1 hrs**

Learn the basics of patent law and how to obtain or interface with patent protection. Class offers step-by-step approach to patent your engineering method or design or interface and navigate around anothers patented rights.

CECT 0311 – Intellectual Prop & Copyright **0.1 hrs**

Review of Intellectual Property aspects and issues involved in the engineering and construction industry. Understand how to copyright-protect your engineering drawings or designs or handle anothers copyright protected material.

CECT 0400 – LEED 101 **0.1 hrs**

Overview of LEED (Leadership in Energy and Environmental Design) principles and the LEED rating system used to measure and certify buildings that employ green building principles in their construction and design.

CECT 0401 – Advanced LEED **0.1 hrs**

Course focuses on green building and energy conservation issues taught by an expert in energy conservation building.

CECT 0402 – Mechanics' Liens Law **0.1 hrs**

Overview of Mechanics lien laws and their relationship to current laws in Utah. Students will learn the steps they need to take to help protect their lien rights.

CECT 0403 – Insurance Legal Issues in Cons **0.1 hrs**

Become more familiar with construction insurance policies, what they cover and how to protect yourself in the event of misfortune as a result of your work.

CECT 0404 – Litigating a Construction Case **0.1 hrs**

Litigation in construction cases is the focus of the lecture. The pros and cons of alternative dispute resolution and the expense associated with litigation. Session will conclude with tips to avoid litigation in the future.

CECT 0405 – Successful Contracts **0.1 hrs**

Explore several common provisions in construction related contracts and learn how Utah law may enhance or modify provisions. Topics include: Indemnification, alternate dispute resolution, prompt payment and attorney fees.

CECT 0406 – Construction Law Topics **0.1 hrs**

The AIA A201 (American Institute of Architects) form and the consensus DOCS contracts endorsed by the Association of General Contractors will be discussed. Recent changes along with the suggestions for usage will be presented.

CECT 0407 – Construction Legislative Topic **0.1 hrs**

Overview of how relatively recent changes to laws by the Utah Legislature in 2009 session impact an Engineer¿s business. Review of regulations as they pertain to construction trades and how court decision have impacted Utah contractors.

CECT 0408 – Patent Protection Basics **0.1 hrs**

Learn the basics of patent law and how to obtain or interface with patent protection. Class offers step-by-step approach to patent your engineering method or design or interface and navigate around anothers patented rights.

CECT 0409 – Intellectual Prop & Copyright **0.1 hrs**

Review of Intellectual Property aspects and issues involved in the engineering and construction industry. Understand how to copyright-protect your engineering drawings or designs or handle anothers copyright protected material.

CECT 0410 – 7 Habits of Effective Attorney **0.3 hrs**

Attorneys are led through a step by step process of how to successfully apply time, relationship and career dev skills with engineering careers. Based on Dr. Stephen Coveys bestselling book, The Seven Habits of Highly Effective People.

CECT 0500 – 7 Habits of Effect Funeral Dir **0.3 hrs**

Funeral directors are led through a step by step process of how to successfully apply time, relationship and career skills within funeral careers. Based on Dr Stephen Coveys bestselling book, The Seven Habits of Highly Effective People.

CECT 0501 – Funeral Director Management **0.35 hrs**

Funeral Directors are shown ways to gain a different way of thinking for both personal and professional focus and accomplishment. This course will help participants better understand and identify the tasks and priorities that matter most, which will enable them to perform to their best abilities.

CECT 0502 – Bloodbourne Pathogens **1 hrs**

What are the OSHA requirements specific to funeral homes? This course will review bloodborne diseases including hepatitis and HIV and how to protect yourself from exposure. Record keeping and reporting procedures in case of exposure. Learn what it takes to keep your funeral home and employees safe from hazardous pathogens.

CECT 0503 – Firefighter Funeral Traditions **1 hrs**

The funeral of a firefighter is steeped in tradition. In this course you will not only learn the tradition, you will also learn the meaning, or history behind it.

CECT 0504 – Hazardous Comm & Formaldehyde **1 hrs**

This course looks at OSHA's Hazardous Communication and Formaldehyde standards. It explores hazardous chemical inventory requirements, what chemicals are considered hazardous and the important components of a Material Safety Data Sheet (MSDS) and how to read it. The course also explains formaldehyde exposure limits, and health affects, including ways to prevent over-exposure.

CECT 0600 – Focus For Teachers **0.3 hrs**

This module is presented in a way to help you gain a different way of thinking for both personal and professional focus and accomplishment. Performing to your best abilities is a goal that we all want but fall short of sometimes. This module will help you better understand and indentify the tasks and priorities that matter most, which will enable you to reach this goal.

CECT 0650 – Stay on Task/Maintaining Care **0.1 hrs**

The responsibilities of a Radiation Therapist require patients being treated with precision and attention to detail. There also needs to be a compassionate approach to patient care. Using both approaches of precision and compassion provide a complete approach to the patients daily treatment experience.

CECW 0110 – Word Level I **0 hrs**

This workshop teaches students how to create, format, print and save Word documents. Tasks include text format, cut, copy and paste; spelling and grammar tools. Students will also learn how to work with document views and print options.

CECW 0124 – Word Level II **0 hrs**

This workshop teaches students how to insert dates and symbols; create and edit Tables, apply borders and shading. The student will also learn how to insert, move and size graphics, Watermarks, WordArt and drawing objects; create and modify Templates and create Newsletter-Style Columns.

CECW 0125 – Word Level III **0 hrs**

This workshop teaches students how to use AutoFormat, AutoCorrect, AutoText, Find and Replace, and Thesaurus. Students will also learn how to use Outline view, Section Headers and Footers, Table of Contents/Authorities, Index, Bookmarks, Footnotes, and Endnotes.

CECW 0210 – Excel Level I **0 hrs**

This workshop introduces the basic tools & shortcuts to become more productive using MS Excel for creating, printing and saving Excel workbooks. Students will learn basic formulas and functions, absolute references, work with ranges, auto-fill, and copy/move data.

CECW 0211 – Excel Large Worksheets **0 hrs**

This workshop teaches students how to work with large data sets and multiple worksheets; insert/delete worksheets, move, copy, and re-name worksheets. Other topics include creating 3-D formulas or formulas using multiple worksheets/workbooks and range names.

CECW 0212 – Excel Charts and Graphics **0 hrs**

This workshop teaches students how to present your data using Excel Charts. Tasks include creating, formatting and editing charts; changing chart types, formatting chart objects, legends, data table, source data, and printing charts. Advanced chart formatting of Gridlines, Axis, Secondary Axis, Trendline, and user defined Charts.

CECW 0213 – Excel Database Mgt/Pivot **0 hrs**

This workshop teaches students how to take raw data and create valuable management reports using Excel Database tools. Filter data with AutoFilter and Advanced filters; perform Multiple-field sorts; format data using Conditional Formats, Data Bars, Icon Sets, Validation, Subtotals, Database functions, PivotTables and PivotCharts.

CECW 0214 – Excel Advanced Functions **0 hrs**

This workshop introduces advanced Excel functions including Financial Functions, IF, AND, OR Logic Functions, VLOOKUP, HLOOKUP, and ISERROR advanced functions. Students will learn about Scenarios, Goal Seek, Data Tables and Custom Views.

CECW 0215 – Excel Organizational Tools **0 hrs**

This workshop introduces the skills to organize Excel information; create Comments, use Auditing Tools, Worksheet Protection, Workbook Protection, assigning and removing passwords. Students will also learn how to create and use Excel Templates, share Excel workbooks with others and track changes to shared workbooks.

CECW 0216 – Excel Macros, Toolbars **0 hrs**

Learn how to use Excel Macros for repetitive tasks. This workshop introduces the skills necessary to Define, Record and Run Excel Macros. Students will learn how to edit Macros, enter Macro Commands using the Visual Basic for Applications window, use Relative and Absolute References; assign Macro shortcut-Keys, create and modify macro buttons.

CECW 0230 – QuickBooks Beginning **0 hrs**

This workshop will review general accounting basics including the profit and loss report and balance sheet. Students will learn how QuickBooks works, setting up a company file, customizing the chart of accounts, setting up a bank account, navigating menus and reports, customizing the desktop, merging names, entering historical data, and writing letters in Microsoft Word using the data in QuickBooks.

CECW 0231 – QuickBooks Intermediate **0 hrs**

This workshop covers tracking fixed assets and their associated liabilities, depreciation, memorized transactions, making deposits not related to receivables, sales tax, bank reconciliation, custom memorized reports, backing up/accountant's review copy, budgets, and credit card transactions.

CECW 0232 – QuickBooks Advanced **0 hrs**

This workshop covers setting up and tracking payroll liabilities, adding employees, adding payroll items, year-to-date payroll issues, payroll additions and deductions, preparing quarterly 941, making payroll tax deposits, processing payroll checks, processing payroll liabilities, and payroll reports. Also covered in this workshop are job costing topics such as time tracking, assigning costs to jobs, and job costing reports.

CECW 0233 – QuickBooks Professional **0 hrs**

This workshop includes QuickBooks Beginning, Intermediate and Advanced workshops.

CECW 0302 – Introduction to MAC **0 hrs**

This workshop will put you in control of the Mac operating system. You'll learn how to organize and manage your files, how to find things, and introduce you to Mac programs such as iTunes, iPhoto, iCal and iMovie.

CECW 0304 – Windows Overview **0 hrs**

This workshop teaches students the basics of Personal Computers hardware/software components, Windows features, Start Menu, Taskbars, views and toolbars. Tasks include using multiple windows, opening, moving, sizing, closing, switching between windows, working with multimedia files. Cut, Copy and Paste. Students will learn File Management, how to organize files, folders using Windows Explorer.

CECW 0305 – Introduction to PC **0 hrs**

This workshop teaches students the basics of Personal Computers hardware/software components, Windows features, Start Menu, Taskbars, views and toolbars. Tasks include using multiple windows, opening, moving, sizing, closing, switching between windows, working with multimedia files. Cut, Copy and Paste. Students will learn File Management, how to organize files, folders using Windows Explorer.

CECW 0307 – Mac Overview **0 hrs**

Course covers both how to secure Linux and how to use Linux as a security device for your own network. Topics covered include IP filtering, proxy services, secure shell, intrusion detection, and virtual private networks.

CECW 0313 – A+ Computer Training **0 hrs**

The A+workshop covers basic to advanced PC hardware and Windows operating system installation, configuartion, and troubleshooting and helps prepare students for the CompTIA A+ certification exam.

CECW 0314 – Network+ Computer Training **0 hrs**

The Network+ workshop covers basic networking concepts for connecting to a network and setting up a small office/home office (SOHO) network. This workshop helps students prepare to take the CompTIA Network+ certification exam.

CECW 0315 – Securiqy+ Computer Training **0 hrs**

The Security+ workshop covers critical security concepts and skills required for military IT personnel as well as for an increasing number of IT security jobs with corporations and the government. This workshop helps students prepare to take the CompTIA Security+ certification exam.

CECW 0401 – Understanding Databases **0 hrs**

Participants learn the basic terminology, design methodology and relational concepts of a database. The course includes exercises in analyzing real-world database examples as well as relating database design to business issues.

CECW 0405 – Access Level I **0 hrs**

This workshop teaches students how to create a MS Access database or how to modify your existing database. Topics include creating tables, creating relationships between tables, setting field properties, filtering and sorting records. You will also learn how to create simple queries and modify query results using Design View and create basic Forms and Reports using the Wizards. Time is reserved for assistance on your specific needs and projects.

CECW 0406 – Access Level II **0 hrs**

This workshop teaches students how to create Query tasks using And/Or, comparison operators, calculated fields, multiple tables in a query, action queries and using advanced query wizards. Form and Report tasks include using the new features in 2007/2010 to quickly create forms and reports, using the Design View editing tools. Advanced Form features include how to create Combo boxes; Option Groups and Check Boxes. Advanced Report features include how to add groupings, calculations, sub totals, and grand totals.

CECW 0407 – Access Level III **0 hrs**

This course introduces more advanced features including using sub forms, creating form letters, integrating MS-Access with Excel, Word and other databases, creating and modifying switchboards, importing and indexing. This course also includes a comprehensive introduction to Macros, a unique method for using Visual Basic actions, without being a programmer. Time is reserved for assistance on your specific needs and projects.

CECW 0408 – Access Adv Topics: Query Topic **0 hrs**

This workshop is for experienced Access users. Tasks include techniques for basing one query upon another, effective use of Joins, Crosstab Queries, and queries for Combo Boxes. This course also includes a comprehensive look at using Functions for calculations in queries; date functions (such as DateDiff), text functions (such as the functions needed split text into separate columns) and the IIF function which allows management in data based on conditions. Examples from your work can be integrated into the class and time is reserved for assistance on your specific needs.

CECW 0409 – Access Adv Topics: Reporting **0 hrs**

This workshop is for experienced Access users. Tasks include creating a custom form for entering query criteria for a report, printing criteria on a report, and using sub-reports, conditional formatting, changing the sort order of a report on the fly, creating grouping levels and adding graphics to a report. This course also shows you how to use Domain Functions so that data from unrelated sources can be incorporated on the same report. Examples from your work can be integrated into the class and time is reserved for assistance on your specific needs.

CECW 0410 – Access- Adv Topics: Macro **0 hrs**

This workshop is for experienced Access users. Teaches thorough understanding of Macros the actions they have to offer and how Macros relate to Visual Basic. Common and advanced uses for macros are discussed, such as creating macro groups for better organization, using the SetValue macro to set properties on the fly, creating a splash screen, using macros with action queries to automate processes, sending custom emails and converting macros into visual basic code. Examples from your work can be integrated into the class and time is reserved for assistance on your specific needs.

CECW 0414 – Access Adv Security **0 hrs**

Learn to set up security for your MS Access database using the Security wizard. Create/modify users/passwords, customize user/group rights, use Workgroup Administrator, implement security on a network.

CECW 0429 – Access Spec Topics **0 hrs**

Special topics with MS Access.

CECW 0504 – Outlook Level I **0 hrs**

Learn how to work with Outlook Messages and Message features, Calendar, Contacts, Tasks, and organizing Outlook items.

CECW 0507 – MS Office Overview **0 hrs**

Provides an introduction to MS Word, Excel spread- sheets and PowerPoint presentations and Outlook.

CECW 0508 – MS Project Level I **0 hrs**

Microsoft Project helps you easily plan projects, stay organized and keep projects on track. Students will learn how to start, save, print and close a project, use project templates, work with Tasks, create and adjust resources. Students will learn how to create, change and assign calendars, define costs, assign costs, and work with the critical path.

CECW 0601 – Internet Overview **0 hrs**

Introduces the skills necessary to begin using the Internet. Students will learn Internet terms and definitions, how to use Internet Explorer and Firefox browsers, how to navigate forward, back and home, how to create bookmarks, use search engines to locate information, , and how to print information. Internet email (Yahoo, Gmail or Hotmail) and social networking sites Facebook, LinkedIn and Twitter will also be explored.

CECW 0603 – Dreamweaver **0 hrs**

Dreamweaver is a professional Web site design and production tool that gives you the power you need for rapid Web development. DreamWeaver will help you build better Web sites faster.

CECW 0607 – Flash **0 hrs**

Introduces Flash to the first time user. Learn how to import external files such as images, sounds and movies.

CECW 0609 – eBay Selling **0 hrs**

Topics include opening a seller account, doing effective research, creating listings, setting pricing, opening a PayPal account, learning how to monitor your listings, completing transactions, and learning how to pinpoint fraud.

CECW 0612 – CSS & XHTML **0 hrs**

This workshop teaches students how to use CSS3 & XHTML5 to control the style and layout of multiple Web pages. CSS allows you to save time designing, updating and maintaining Web pages as well as presenting a consistent appearance for your Web pages.

CECW 0620 – Social Media For Business **0 hrs**

This workshop is designed for small to medium businesses that are new to social media marketing, or are struggling with proper implementation. In a hands-on environment, you will learn the basics and how to get started.

CECW 0701 – Publisher **0 hrs**

This workshop teaches students how to use Microsoft Publisher to create, a wide range of professional-quality publications and marketing materials. Create brochures, postcards, greeting cards, or newsletters, from a large selection of pre-designed, customizable templates to deliver high-quality results without having graphic design experience.

CECW 0703 – PowerPoint Level I **0 hrs**

This workshop teaches students how to create, run and navigate PowerPoint presentations. Topics include presentation skills, slide format/layout, text format, bullets, drawing objects, images and pictures. Students will learn how to print slides, handouts, Speaker Notes, move, duplicate and sort slides; set Slide Transitions, run and navigate a Slide Show.

CECW 0704 – PowerPoint Level II **0 hrs**

This workshop teaches students how to create more advanced presentations. Topics include charts, tables; Custom Color Schemes, editing presentation masters, notes masters, handout masters and saving a Custom Template. Students will learn how to set up slides with Special Effects, Animation, Sound and Video. Students will also learn how to edit and import charts; create custom charts, use organization charts, diagrams and SmartArt.

CECW 0800 – Photoshop Level I **0 hrs**

This workshop is designed to help students create images for both print and the Web. Students will use Photoshop's basic tools, palettes, and features to create images, retouch photographs, and save files using multiple file formats.

CECW 0801 – PhotoShop Level II **0 hrs**

This workshop builds upon the concepts from InDesign Level I. Before taking this course, students should have basic photo editing skills, and they should know how to create simple shapes and drawings. Students will learn advanced features to create artwork for both print and the Web.

CECW 0803 – Adobe Acrobat Professional **0 hrs**

This course provides students with the skills needed to create PDF (Portable Document Format) documents. PDF Forms can be delivered, filled out by users, and returned either electronically or on paper. Tasks include how to create interactive forms with Text fields, Checkboxes, Radio Buttons, List Boxes, Drop-down List, Combo Boxes, buttons and images.

CECW 0804 – Illustrator Level I **0 hrs**

Learn how to use Adobe Illustrator to create artwork for both print and web. Explore setup options, identify components of the workspace; navigate in the artwork window, view artwork using menus, tools, and panels; create basic shapes, lines and text objects; transform using scale, rotate, flip and align; modify text formats to enhance appearance, alignment and spacing options.

CECW 0805 – Illustrator Level II **0 hrs**

This workshop is filled with interactive exercises designed to help students create artwork for both print and Web using Illustrator. Students will learn how to use advanced features to Transform objects, apply Filters and Effects, automate tasks, modify Images, 3D effects, Liquify and Symbolism Tools.

CECW 0806 – Indesign Level I **0 hrs**

This workshop helps students design and produce professional print documents and layouts using Indesign. Students will learn how to manipulate text, shapes, colors, and frames to create eye-catching print products.

CECW 0807 – Indesign Level II **0 hrs**

This workshop builds upon the concepts from InDesign Level I. Students will learn how to manipulate page layout, control the appearance of text and tables, and create books, tables of content, and indices; convert documents to PDF and other formats.

CECW 0813 – Adobe Ceative Suite **0 hrs**

The Adobe Creative Suite workshop includes beginning and advanced workshops for Photoshop, Illustrator and InDesign.

CECW 0820 – Video Editing **0 hrs**

Students will learn how to create a movie using Adobe Premiere Professional software. This hands-on course guides students through the process of creating a movie from start to finish, leaving time for questions and answers about the many options that Adobe Premiere provides.

CECW 0825 – Visio **0 hrs**

Use Microsoft Visio software to communicate information by using diagrams. Students will learn about the Visio environment how to use stencils, scale and resize objects, draw basic shapes, manipulate compound lines, and distribute and group objects. They will also learn how to create network diagrams, drawings, org charts, work with text, format shapes and lines, apply a background page, advanced layout and connection techniques.

CECW 0990 – MS Office Special Topics **0 hrs**

MS Office Special Topics

CECW 0991 – CWS Special Topics **0 hrs**

Special Topics workshop

CEEI 0100 – SLR Photo: Basics **10 hrs**

Do you want to learn how to go beyond a point and shoot snapshots? Learn the basics of SLR photography: ISO, Program Modes, Aperture, Shutter Speed, Priorities, Depth of Field, Photo Composition and much more. Be sure to bring your SLR Digital camera and instruction manual to class.

CEEI 0110 – SLR Photo-Beyond the Basics **10 hrs**

Prereq: CEEI 0100. Learn about the cameras and equipment, how to take better photographs, flash photography, fun photography including smoke and water drops. Also learn home studio lighting and macro, night, and landcscape photography. Be sure to bring your SLR digital camera and instruction manual to class.

CEEI 0321 – Career Transitions **15 hrs**

A Growing number of adults are choosing to work beyond their traditional retirement years! This workshop is designed for those re-entering the workforce, planning to work a little longer or wanting to explore new educational or career pathways.

CEEI 0322 – Savvy Social Security **1.5 hrs**

This informational workshop will share important rules and strategies for collecting your Social Security, how to estimate benefits, coordinate benefits w/your spouse & other sources of retirement income and minimize taxes.

CEEI 0323 – Easy Musical Keyboarding **7.5 hrs**

This revolutionary 'easy to learn' musical keyboarding workshop is designed for those who are 50 plus. Basic music concepts using an easy to follow lesson book will help you improve your mental fitness & develop a new hobby to love!

CEEI 0324 – Intro to Tai Chi & Qi Gong **24 hrs**

Chi Gung & Tai Chi began in ancient China as means of physical/mental enlivening & rejuvenation. Discover the body's natural process of healing - strengthening joints, circulatory systems & balance.

CEEI 0325 – Begin Tai Chi (Yang Style) **7 hrs**

This graceful form of ancient Chinese martial arts is still practiced today as meditation in motion. Students will learn basic concepts of body/mind connection, self massage, meditation techniques to calm the mind and reduce stress.

CEEI 0327 – Boost Your Technology! Boomers **10 hrs**

This series of basic computer & social media training is designed for adult learners who want to be more technology savvy. Learn to navigate your personal computer & get connected with friends & family through social media.

CEEI 0328 – Skype Basics **2 hrs**

Stay connected with friends and family using Skype to make voice and video calls on the internet for free! Make calls around the world for a fairly affordable rate. Webcam is included in the cost of course fee.

CEEI 0329 – Jane Austen:Life,World & Novel **9 hrs**

Weekly discussions will explore Jane Austen's life, novels& the world she lived in. Learn to address a Duke, properly be introduced to a gentleman at a ball, learn the stories of England¿s royalty & Jane's connection to French Revolution.

CEEI 0331 – Smart Investing for Retirement **6 hrs**

What is your retirement exit strategy? Retirement is one of life's biggest transitions. Discover the financial tools you need and plan your future with confidence!

CEEI 0332 – Keep It Movin' **30 hrs**

This low impact training is geared with the baby boomer in mind! Join your peers in this strength training and balance workout combined with a fun atmosphere. Class meets at Alta Canyon Sports Center in Sandy for 15 weeks.

CEEI 0333 – Basic Nutrition Healthier Life **10 hrs**

Improve your health by learning how your body reacts to calories, hydration, carbohydrates, fiber, protein, fat, vitamins and minerals. You'll also learn how your diet can affect diseases such as inflammation, allergies, hypertension, cholesterol, and much more.

CEEI 0334 – Intro to Square Foot Gardening **2 hrs**

Discover the advantages of a SFG system as well as basic concepts including plantings, spacing and secret to a successful soil mix. Learn from a certified SFG professional who trained under the founder of SFG, Mel Bartholomew.

CEEI 0335 – Intermediate SFG **2 hrs**

Continuation of introductory SFG soil structure, composting, advanced techniques, vertical gardening and gardening protection discussed. Instructor is a certified SFG professional trained by the founder of SFG, Mel Bartholomew.

CEEI 0336 – Advanced SFG **3 hrs**

This hands-on workshop will build on previously taught concepts. Building a light station, sprouting seed, composting methods for saving seeds and increasing efficiency will be introduced. Bring your working gloves & notepad!

CEEI 0337 – Designer Cookies - Dresses **3 hrs**

Designer Cookies Module 1: All About Dresses
This hands-on workshop will teach you to create simply exquisite cookies for any season and occasion. So simple even the novice will feel like a pro.

CEEI 0338 – Designer Cookies-Baby Shower **3 hrs**

Designer Cookies Module 2: Baby Shower Bibs
This hands-on workshop will teach you to create simply exquisite cookies for any season and occasion. So simple even the novice will feel like a pro.

CEEI 0339 – Designer Cookies-Birthdays **3 hrs**

Designer Cookies Module 3: Birthday Cakes & Balloons
This hands-on workshop will teach you to create simply exquisite cookies for any season and occasion. So simple even the novice will feel like a pro!

CEEI 0340 – Designer Cookies-Springerle **5 hrs**

Designer Cookies Module 4: German Springerle
This hands-on workshop will teach you to create simply exquisite cookies for any season and occasion. So simple even the novice will feel like a pro!

CEEI 0341 – Designer Cookies: Ornaments **3 hrs**

Designer Cookies Module 5: Christmas Ornaments

This hands-on workshop will teach you to create simply exquisite cookies for any season and occasion. So simple even the novice will feel like a pro!

CEEI 0342 – Creative Molds: Shells/Flowers **3 hrs**

Creative Molds Module 1: Sea Shell & Flowers

Decorate with ceativity through this hands-on workshop and amaze everyone with your clever, crafty, edible decorations!

CEEI 0343 – Creative Molds: Buttons/Jewels **3 hrs**

Creative Molds Module 2: Buttons & Jewels

Decorate with creativity through this hands-on workshop and amaze everyone with your clever, crafty, edible decorations!

CEEI 0344 – Chocolate Art Edible Designs **3 hrs**

Chocolate Art Module 1: Edible Chocolate Designs

Learn how to create edible chocolate designs and how to use modeling chocolate to create fantastic designer-style desserts. This is a hands-on workshop you're going to love!

CEEI 0345 – Chocolate Art: Modeling Design **3 hrs**

Chocolate Art Module 2: Modeling Chocolate Designs

Learn how to create edible chocolate designs and how to use modeling chocolate to create fantastic designer-style desserts. This is a hands-on workshop you're going to love!

CEEI 0349 – Discovering the World of Wine **4 hrs**

Explore & taste the six noble grape varieties of the world! You'll enjoy learning about the "markers" of each grape variety, organoleptic wine eval techniques and shopping tips for the best wine values! Bring your photo ID to class.

CEEI 0350 – Laughter Yoga **8 hrs**

This is a mind/body class practicing laughter to lower stress hormones, foster a positive and hopeful attitude and help increase health and vitality through unconditional laughter and breathing.

CEEI 0351 – Fortify Your Knowledge of Port Wine **2 hrs**

Taste three styles of port wine paired with blue cheeses and chocolates while you learn the history and production methods of the world’s most popular and collectible fortified wine.

CEEI 0352 – Champagne and Sparkling Wine 2 hrs

Taste sparkling wines from France, Italy, Spain, & the new world paired w/ appetizers & plenty of ideas for holiday parties. Learn about Methode Champenoise style of production & Champagne's most impressive price tag of all sparkling wines.

CEEI 0353 – Beginning Oil Painting 10 hrs

Discover the art of oil painting through this hands-on work- shop! Instructor will introduce art supplies; colors and values; design compositions & techniques to enable students to create a beautiful painting to take home!

CEEM 0001 – Energy Mgt AB Program 0 hrs

Offset costs of developing, updating and maintaining accelerated program.

CEEM 0310 – Lighting Fundamentals 3 cr

Assess quantity and quality of light, light sources and controls, luminaries, manufacturer lamp and ballust specifications, lighting power density and HVAC interactions, retrofit opportunities, cost saving annually, lighting codes/regulations and lighting audit projects.

CEEM 0320 – Lighting Applications 3 cr

Review terminology and lighting fundamentals, IES illumance selection procedures, lighting system evaluation, luminaries and associated components. Perform illuminance calculations, including point-by-point, lumen and computerized procedures.

CEEM 0410 – Energy Investment Analysis 2 Cr

Prereq: EGMT 1210, 1240, 1310 and MATH 1010. What is/isn't appropriate energy efficiency measure investment? Utility rate schedules, simple payback analysis, comp. interest, time value of money, cost estimating, life cycle cost analysis, simulation tools reviewed. LCCA project req.

CEEM 0420 – Energy Accounting 2 Cr

Prereq: CIS 2990. Course will review energy units, data gathering for energy accounting utility rates and schedules, energy data organization, acj. baselines, cost avoidance, load factor, data analysis, data presentation, ENACT software and spreadsheet development.

CEEN 1100 – Introduction To Civil And Environmental Engineering Design 3 cr

Prereq: MATH 1010 or appropriate Accuplacer score. The progression of civil and environmental engr. including the major elements of the profession. An understanding of the core disciplines and design in engr. is reviewed. It includes speakers, design project, and lectures.

CEEN 2000 – Cooperative Education In Civil Engineering 1-2 cr

Prereq: Sophomore standing, minimum 2.0 GPA, and instructor approval. A supervised work experience in a business, industrial or government related to the program major. Credit is awarded for successful completion of specific learning objectives that provide new learning related to the major.

CEEN 2010 – Statics **3 cr**

Prereq: MATH 1210. Recommended prereq: PHYS 2210. Principles of forces, moments and couples; resultant and static equilibrium of general force systems; statically equivalent systems, center of gravity and pressure; friction; free body method of analysis. Principles applied to engineering problems.

CEEN 2020 – Dynamics I **2 cr**

Prereq: CEEN 2010. Position, velocity and acceleration, vector calculus, particle kinematics, kinetics of particles, including Newton's Laws, conservation of momentum and energy, and impact vibratory motion of particles are covered.

CEEN 2130 – Engineering Economics With Statistics And Probability **4 cr**

Prereq: MATH 1050 or MATH 1080. Lectures and discussion on Engineering economic decisions, equivalence and interest formulas, rate of return, project evaluation and cash flow, depreciation, taxes, and an intro. to Eng. Probability and Statistics.

CEEN 2140 – Strength of Materials **2 cr**

Prereq: CEEN 2010 and MATH 2250 (either can be taken concurrently). Coreq: CEEN 2145. Internal forces in members, concept of stress and strain, axial loading, Hooke's Law, torsion, pure bending, traverse loading, transformations of stress and strain, plane stress and strain, pressure vessels, Mohr's circle, strain energy, beam deflection and column bending are discussed.

CEEN 2145 – Testing Of Engineering Materials **1 cr**

Recommended coreq: CEEN 2140. This is an introductory laboratory in mechanical behavior of materials using basic testing methods and instrumentation, column bending, tension and compression of metals, concrete failure, Charpy's Impact, and creep tests.

CEEN 2240 – Surveying For Civil Engineers **3 cr**

Prereq: MATH 1060 or MATH 1080, or appropriate Accuplacer score. Surveying procedures and their application to design and construction are taught. Students receive hands-on experience using total stations, GPS, and other surveying equipment. Laboratory included.

CEEN 2300 – Engineering Thermodynamics **2 cr**

Prereq: CHEM 1210 and MATH 1220. Recommended prereq: PHYS 2210. First and second law of thermodynamics, internal energy, enthalpy, entropy and open and closed systems are covered. Engineering cycles including Carnot, Otto, Diesel, Brayton and Refrigeration are introduced.

CEEN 2450 – Numerical Methods **3 cr**

Prereq: ENGR 1030 or 1040; MATH 2250. Recommended prereq: MATH 2210. Numerical techniques used in engineering computing, including: convergence, error accumulation, roots, solution of linear and nonlinear equations, numerical integration and differentiation, and solutions to differential equations.

CEEN 2900 – Special Topics In Civil/Environmental Engineering 1-3 cr
Special Topics reflecting items of current interest in Civil/Environmental Engineering in addition to some of the ASCE (American Society of Civil Engineers) issues and engineering marvels.

CEET 0100 – CPR 0 hrs
Course satisfies the BLS CPR prerequisite for the EMT program.

CEET 0200 – EMT Re-Certification 0 hrs
For those holding current valid EMT certification. Training selected by the student and instructor from the ongoing course. Provides required general CME hours for the currently certified EMT.

CEET 0300 – EMT-Advanced Course 0 hrs
Advance EMT training to include advance airway techniques, intravenous therapy, Advanced EMT level drug administration, Advanced EMT patient assessment skills. Upon successful course completion, students will be recommended to take the Utah Department of Health Advanced EMT Certification test.

CEGC 0120 – RESNET/HERS Rater Exam Prep 10 hrs
Introduction to integrating green methods into projects and remodels. Students will evaluate existing buildings and create a retrofit plan that incorporates elements of energy efficiency, water efficiency materials, indoor air quality and other green building features.

CEGE 0001 – General Education AB Program 0 hrs
Offset costs of developing, updating and maintaining accelerated program.

CEGM 0100 – Intro to Gas Measurement-Pilot 0 hrs
Intro to Natural Gas Measurement is a pilot course utilizing curriculum developed by the Gas Measurement Training Council. It will provide an overview of the natural gas measurement and transmission industry and the basic skillsets necessary to work as a field technician. Topics will include gas properties, fluid mechanics, gas flow measurement, gas meters, and industry standard safety guidelines.

CEGN 0001 – Gen Computer & Internet Tools 0 hrs
Introduction to genealogy computer programs and basic genealogy skills used to conduct research and document records with appropriate citations. Students will learn how to use internet tools for genealogy research.May take Department Challenge Exam in place of course.

CEGN 0010 – Intro to Genealogical Research 0 hrs
Prereq: Completion of CEGN 0001 w/C grade or better or CEGN 0001 Department Challenge Exam. Students explore record groups and repositories which contain 10 U.S. sources known to provide evidence linking families from students¿ lifetime to 1850 and solve research problems by evaluating evidence.

CEGN 0011 – U.S Record Groups **0 hrs**

Prereq: Completion of CEGN 0010 with a/C grade or better or CEGN 0010 Department Challenge Exam. Course will provide an in-depth study of sources, records, and methodologies not covered in CEGN 0010 essential to documenting and verifying family history and genealogies within the U.S. and focusing on a time period prior to 1850.

CEGN 0012 – International Record Groups **0 hrs**

Prereq: Completion of CEGN 0010 w/C grade or better or CEGN Department Challenge Exam. Students examine and use major international record groups in genealogical research. Paleography, record recognition and usage, research strategies, and usage of the international collections at various repositories will be covered.

CEGN 0016 – Tracing Immigrant Origins **0 hrs**

Prereq: Completion of CEGN 0011 or 0012 w/C grade or better. Introduction to methodologies and practices to extend family genealogies beyond the U.S. to other countries by finding evidence in unique U.S. records to link localities to International locations.

CEGN 0110 – Genealogy Writing & Publishing **0 hrs**

Prereq: Completion of CEGN 0016 w/C grade or better. Introduction to standards in genealogical wiring, reporting, documentation and presentation of genealogical data. Students will also learn how to publish a family history in various medias.

CEGN 0111 – Genealogy and Family History Writing **0 hrs**

This course introduces students to various forms of genealogical and family history writing, such as a compiled genealogy, four-generation report, research report, record resource guide, and family history narrative. It also introduces students to analytical reading, the writing process, analysis and evaluation of genealogical research and sources, and documentation styles.

CEGN 0150 – Preparing for US Credentials **0 hrs**

Prereq: Completion of CEGN 0110 w/C grade or better. Students finalize an ICAPGen credentialing application, a 4-generation report (with record citations linked to original images and research planners, and an analysis of evidence), plus assemble a research portfolio, and take a practice exam.

CEGN 0151 – Preparing for Intl Credentials **0 hrs**

Prereq: Completion of CEGN 0110 w/C grade or better. Students finalize international credentialing application, a 4-generation report (with record citations linked to original images and research planners, and an analysis of evidence), plus assemble a research portfolio, and take a practice exam.

CEHS 0500 – Therapeutic Rec Tech 1 **0 hrs**

This course consists of 10 nine hour sessions to fulfill the educational requirements for students pursuing a therapeutic rec tech license at the TRT level. Following the course students must register for the exam with the State of Utah.

CEHW 0240 – Theory/Practice of Meditation **0 hrs**

This course is an overview of the use and practice of meditation to reduce stress and increase health and wellness. Different forms and purposes of meditation will be explored and a daily meditation practice encouraged.

CEHW 0242 – Laughter Yoga **0 hrs**

A mind/body class combining lecture, practice and laughter to lower stress hormones, foster positive and hopeful attitude. To help people increase health and vitality through unconditional laughter and yogic breathing.

CEHW 0243 – Laughter Yoga Instructor Train **0 hrs**

Training to become a certified Laughter Yoga Instructor who will then be able to lead Laughter Yoga sessions and Meditations for social clubs, corporate seniors, school children etc. Graduates will receive a CLYL certificate and be listed on Dr. Madan Katarians LY Website.

CEHW 0300 – Doula and Childbirth Education **0 hrs**

This course covers the pre and post partum period of pregnancy as well as labor and delivery. Students will learn concepts of health and wellness for these periods of life for both the expectant mother and baby.

CEHW 0325 – Intro to Group Fitness Instr. **0 hrs**

This course assists successful students to prepare for certification as fitness professional by covering the educational components of teaching a safe and effective group fitness class.

CEHW 0350 – Intro to Yoga Teacher Training **0 hrs**

The focus is on asanas, pranayamas, the yoga philosophies, the yoga lifestyle and other traditional yoga techniques for use in daily personal practice.

CEHW 0355 – Yoga Teacher Training II **0 hrs**

The course will cover human physical anatomy, physiology, and energy anatomy and physiology (chakras, nadis, etc) as applies to the subject and application of yoga practice.

CEHW 0360 – Yoga Teacher Training III **0 hrs**

Recommended: HLTH 1350. Class covers the following principles of yoga: asanas, pranayamas, kriyas, chanting, mantra, meditation and other traditional yoga practices with equal time given to analytical training and teaching, and practice techniques.

CEHW 0365 – Yoga Teacher Training IV **0 hrs**
Recommended: HLTH 1350. Class studies advanced asanas, pranayamas, kriyas chanting, mantra, meditation and other traditional yoga techniques. Teaching methodolgy and ethics will be covered.

CEHW 0370 – Yoga Teacher Practicum **0 hrs**
Prereq: Instructor approval. This class allows students to complete the required practical teaching requirements for the Yoga Alliance. Practicum teaching will be done with fellow students during class and in the community as a volunteer.

CEHW 0375 – Yoga Sutras **0 hrs**
This course offers and in-depth study of ancient and modern texts like Patanjali's Yoga Sutra or Hatha Yoga Pradipika. Students will expolore various interpretations along with ways to apply the Sutras into everyday living & Yoga Practice.

CEHW 0380 – Yoga for Pathology **0 hrs**
This course covers poses and contraindications according to yogic traditions & modern research for different conditions which yoga may be used to help alleviate or cope with certain pathologies. Instructors will not diagnose/treat clients.

CEHW 0385 – Yoga for the Life Cycle **0 hrs**
This course offers an indepth study of the applicaton of Yoga through the life cycle beginning with pregnancy, Childhood, Adolescence, Adulthood and Older Adults.

CEHW 0390 – Yoga Lab and Practicum **0 hrs**
This course offers students opportunites to work on their own personal practice, to teach general populations and to work one on one with yoga students to help them find a practice suited to their needs and goals.

CEHW 0900 – Belly Dancing Basic **0 hrs**
Course is designed to open the door to understanding movement through Middle Eastern dance.

CEHZ 0516 – Certified Pool Operator **0 hrs**
2 day intensive program that covers pool and spa chemistry, testing, treatment, filtration, maintenance and automatic feeding equipment. Utah Health Dept Rule R395-302-28 enacted 9-1-98 requires all pool operators to be certified.

CEHZ 0517 – Certified Pool Operator Recertification **0 hrs**
Students who have previously taken the 16 hour Pool and Spa Operator course that need to recertify may take the exam the last day of the Pool and Spa Operator course.

CEIB 0100 – Exec Cert of Global Bus Mgt **0-3 hrs**

The Executive Certificate of Global Business Mgt is offered to business executive, professionals, working staff, entrepreneurs, and qualified students who wish to increase their knowledge and improve their strategies in global business practices.

CEIB 0200 – Shipping/Products Overseas **0 hrs**

Designed to train export marketing and sales managers, in shipping products overseas.

CEIP 0011 – 650+ Bike Rental and Test **0 hrs**

650+ tiered license test with bike rental

CEIP 0012 – Motorcycle Private Lesson **0 hrs**

This course is in addtion to the basic rider training and is conducted from the motorcycle safety foundations extended BRC.

CEIP 0014 – Motorcycle Rider Safety Course **0 hrs**

Motorcyle rider training, basic riding skills for Utah state drivers license riding test waivers.

CEIP 0015 – Motorcycle Rescheduling Course **0 hrs**

BRC reschedule - for makeups.

CEIP 0016 – Citizens Firearms **0 hrs**

Fulfills training for concealed carry permit training for the State of Utah.

CEIP 0017 – Returning Rider Course **0 hrs**

Basic Rider Education class designed for the beginning riders and those returning after many years of not riding. This course is designed to improve basic rider skills stopping, swerving, cornering, and the mental skills to safely ride on the roadways with other traffic. This course is approved as a license waiver skills test.

CEIP 0021 – Experienced Rider Course **0 hrs**

Course is for riders with 1,500 miles of riding experience. Develop your physical skills with intensified practice of swerving, cornering, traction management, stopping and risk management.

CEIP 0025 – Adv Rider Crse/ Sportbike Tech **0 hrs**

Advanced Rider Course designed to teach experienced riders advance braking, cornering, swerving, stopping, and mental strategies to improve rider safety on the roadways. This is an Advanced Rider Course/Sportbike Techniques for riders with at least 4000 miles on their bike. This class is the same basic class as the Military Sport Bike Course.

CEIP 0026 – Adv Rider Crse-Rider Coach Pr **0 hrs**

This class is a Rider Coach Preparation designed to take advanced riders to the level of Coach to assist experienced riders to perfect their advanced skills as riders. This is an Advanced Rider Course/Sportbike Techniques for riders with at least 4000 miles on their bike. This class is the same basic class as the Military Sport Bike Course.

CEIP 0090 – Driver Education **0 hrs**

A state-certified course in Driver Education offered to the community.

CEIP 0092 – Driver Ed Behind the Wheel Ins **0 hrs**

A state approved course that readies the student to take the driving exam. Behind-the-wheel instruction to assist drivers in passing the driver license skills test.

CEIP 0093 – Driver Ed:In Car Sessions **0 hrs**

Students who have completed on-line drivers education training still need the 6 hours of behind the wheel and 6 hours observations. This class is designed to meet the needs of these students. The student will be included with an existing class to complete their drives and Observations.

CEIS 0010 – Intro to Library Services **0-45 hrs**

Course provides an overview of types of libraries, media and information centers, tools and terminology used in libraries, the role of library assistants, library Bill of Rights, privacy issues and library associations.

CEIS 0020 – Public Information Services **0-45 hrs**

Course includes information about library circulation, covers policies, procedures, reserve collections, patron holds/requests, reference and information services, search strategies, information sources, customer communication and search techniques.

CEIS 0050 – Library Technical Services **0-45 hrs**

Review processes by which materials are acquired for collections and prepared for public access. Biblographic search tools, acquisition terminology, serials ordering, cataloging reference tools and resources covered.

CEKM 0001 – Intro Knowledge Management **0-45 hrs**

This introductory course provides students with an introduction to a range of cases, concepts, models, practices, theories, and technologies related to the emerging field of Knowledge Management (KM).The course will survey business value of KM; careers in KM; intellectual capital; perspectives of knowledge creation, knowledge transfer, knowledge sharing, and knowledge leadership roles and skills.

CEKM 0010 – Intermediate Knowledge Management 0-45 hrs

Prereq: CEKM 1000. Strategic Knowledge Management capitalizes on the knowledge management (KM) life-cycle continuum learned in CEKM 0001. More in depth concepts, terms, techniques, tools, processes, and systems are introduced to the learner. The intermediate course examines the principles of KM, technologies and systems, and the management of KM in an enterprise.

CELN 0110 – Lineworker Apprenticeship 1A 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the first in a series of eight courses and covers the topics of Transmission and Distribution Systems, Substations & Switchyards, Basic Electricity, A/C Fundamentals, Safety in Transmission & Distribution Maintenance, Climbing Wooden Poles, Bucket Trucks, and Material Handling Bucket Trucks.

CELN 0112 – Lineworker Apprenticeship 1B 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the second in a series of eight courses and covers the topics of Hydraulic Derricks, Electrical Safety, Overhead Distribution Systems, Using Tools, Overhead & Underground Service Installation, Introduction to Metering, Safety in Meter Work, Rigging 1&2, Pole Framing & Guying, and Setting & Replacing Poles.

CELN 0121 – Lineworker Apprenticeship 2A 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the third in a series of eight courses and covers the topics of Working on Distribution Poles, Care and Testing of Tools and Equipment, Overhead Distribution Systems, Distribution Line Safety, System Protection and Monitoring, Safet Bucket Truck Operations, Multimeter Operation and Use, Bucket Truck Rescue, Safety in Overhead Line Maintenance.

CELN 0122 – Lineworker Apprenticeship 2B 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the fourth in a series of eight courses and covers the topics of Using Line Test Equipment, Tree Trimming, Pole Top Equipment and Replacement – Transformers – Cutouts & Reclosers – Switching Devices – Capacitors – Advanced Rigging, Transmission Structures, and Transmission Line Safety.

CELN 0231 – Lineworker Apprenticeship 3A 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the fifth in a series of eight courses and covers the topics of Pole Top Equipment and Replacement – Voltage Regulators, Distribution Line Installation & Removal, Distribution Line Replacement, Transformer Connections, Distribution Line Repair – Gloves, Distribution Line Repair – Hotsticks, Troubleshooting Overhead Lines, Safety in Udergground Line Maintenance, and Underground Residential Distribution Systems.

CELN 0232 – Lineworker Apprenticeship 3B 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the sixth in a series of eight courses and covers the topics of Underground Cable Installation, Transformer Troubleshooting, Climbing Steel Poles and Towers, Transmission Line Installation, Rigging for High Voltage Work, Working on De-energized Transmission Lines, Overhead Troubleshooting, Overhead Troublshooting in Emergency Conditions, and Power Quality.

CELN 0241 – Lineworker Apprenticeship 4A 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the seventh in a series of eight courses and covers the topics of 34.5KV Rubber Glove Work, Pad-Mounted Transformers & Switchgear, Calbe Splicing, URD Troubleshooting, Locating Primary & Seocndary Faults, Safety in Substations and Switchyards, Control Equipment, and Capactitors & Reactors.

CELN 0242 – Lineworker Apprenticeship 4B 75hrs

The lineworker apprenticeship program is designed to provide related technical instruction for students currently employed as apprentice lineworkers in the power generation and distribution industry. This course is the last in a series of eight courses and covers the topics of Voltage Regulators, Power Transformers, Circuit Breakers, Relays, High Voltage Terminations, Transmission Line Repair Hot Sticks and Barehand Method.

CEMA 0231 – Advanced Medical Coding 0 hrs

Advanced practice with the current procedural terminology (CPT) and international classifications of diseases (ICD-9) coding procedures, HCPCS for optimal reimbursements as practiced in the medical setting.

CEMD 0910 – Intro. Medical Device Industry 24 hrs

Course provides an overview of the medical device industry, particularly in Utah. Topics include diversity of products, size & scope of industry, current trends & product life cycle-from conception to market approval & distribution.

CEMD 0920 – Basic Manufacturing Skills **24 hrs**

Course focuses on fundamental principles of measurement, performing measurements, data management & analysis related to medical device mfg. Mastery of these skills is key to a successful career in the medical device/bioscience industry.

CEME 0111 – Meter Apprenticeship 1A **0 hrs**

This course is for meter apprentices. It introduces electrical principles and principles of magnetism, and AC concepts. Students will learn about atomic structure, electrical qualities, Ohm's law, resistors, parallel circuits, trigonometry, and alternating current.

CEME 0112 – Meter Apprenticeship 1B **0 hrs**

This course is for meter apprentices. Students will learn about math for metering, safety, watt-hour meter principles and wire tables.

CEME 0121 – Meter Apprenticeship 2A **0 hrs**

This course is for meter apprentices. Students will learn about meter watt hour constants, register ratios and formulas. Also covers principles of accuracy testing and calibration.

CEME 0122 – Meter Apprenticeship 2B **0 hrs**

This course is for meter apprentices. Students will learn about single phase meter application and installation; polyphase power systems and meter applications; meter testing and calibration; instrument transformers, testing single phase transformers, and Blondel's theorem.

CEME 0231 – Meter Apprenticeship 3A **0 hrs**

This course is for meter apprentices. Students will learn about self contained polyphase meter testing and polyphase transformer related application. The course also covers demand metering concepts.

CEME 0232 – Meter Apprenticeship 3B **0 hrs**

This course is for meter apprentices. Students will learn about testing and calibrating demand, meter mounting devices and test switches. The course also covers reactive meter testing.

CEME 0241 – Meter Apprenticeship 4A **0 hrs**

This course is for meter apprentices. Students will learn about totalizing meters; installation checks and inspections; and customer relations. The course also covers solid state meters and associated devices.

CEME 0242 – Meter Apprenticeship 4B **0 hrs**

This course is for meter apprentices. Students will learn about energy diversion, troubleshooting techniques and pulse initiators and recorders. The course also covers electronic metering, register programming and computers.

CEMS 0065 – Utah Notary Training Workshop **0.4 hrs**

The Training workshop will prepare you to take and pass the States required online Notary Public examination.

CEPT 0100 – Pharmacy Tech Exam Review **0 hrs**

This course will provide a review of the skills and competencies addressed in the Pharmacy Technician Certification Examination.

CESB 0001 – Dev Your Family Child Care Bus **4 hrs**

Covers topics that help participants think and act as business owners. The unique combination of business and industry specific information has a proven track record of assisting individuals in developing and sustaining business.

CESG 0175 – Math For Energy Industry **0 hrs**

This class includes an intensive basic math review and practical application of Measurements and Conversion. Algebra, Geometry and Trigonometry. Practical application will emphasize realistic mathematical problem solving in the Energy Industry, Basic Construction and Architecture/Drafting.

CESG 0180 – NAHB CGP **6 hrs**

The National Association of Homebuilder's Certified Green Professional¿ (CGP) designation recognizes builders, remodelers and other industry professionals who incorporate green building practices into homes without driving up the cost of construction. Classwork leading to the designation provides a solid background in green building methods, as well as the tools to reach consumers, from the organizaion leading the charge to provide market-driven green building solutions to the home building industry.

CESG 0400 – Electricity for Power Industry **90 hrs**

An introduction to electrical theory for students enrolled in the Electric Power Technology certificate program. Topics include electron theory; series and parallel circuits; direct and alternating current.

CESG 0411 – Electrical Distribution System **90 hrs**

An introduction to the design and construction of overhead distribution systems for students in the Electric Power Technology program. Topics includehigh-voltage troubleshooting procedures; maintenance and construction of distribution systems.

CESG 0450 – Transformer Basics **60 hrs**

This course exposes students to transformer design and operation, with an emphasis on the installation and maintenance of transformer equipment. Subjects include: three-phase transformers; autotransformers and reactors; safety requirements and troubleshooting.

CESG 0500 – Pole Climbing, Ropes & Rigging 105 hrs
This course is designed to provide students with the basic knowledge and ability to safely ascend and descend wooden poles. Students will also learn the basic rigging procedures and knot tying techniques used in electric linework.

CESG 0600 – Print Reading 0 hrs
Prereq: CESG 0400, 0175. An introduction to print reading fundamentals and the interpretation of blueprints. Emphasis is on electrical drawings and schematics.

CESG 0620 – Electromechanical Systems 0 hrs
Prereq: CESG 0175, 0400, 0450. A study of devices and components that translate electrical energy into mechanical motion. Topics include DC and AC motors and controllers, servo and stepping motors, solenoids, linear motors and actuators. The course also introduces the student to programmable logic controllers (PLC), ladder logic and PID controllers.

CESG 0630 – Underground Distribution Sys 105 hrs
Prereq: CESG 0400, 0411, 0450, 0500. An introduction to the design and construction of underground electrical distribution systems and the challenges they represent to the lineworker. Students will be trained to safely perform common distribution tasks performed in the construction and maintenance of underground distribution systems.

CESN 0111 – Substation Apprenticeship 1A 0 hrs
This course is for substation apprentices. Students will learn about basic electricity, electrical safety, tool use, Ohm's law,and series circuits. The course also covers parallel and combination circuits and DC fundamentals.

CESN 0112 – Substation Apprenticeship 1B 0 hrs
This course is for substation apprentices. Students will learn about basic electricity, electrical safety, tool use, Ohm's law, and series circuits. The course also covers parallel and combination circuits and DC fundamentals.

CESN 0121 – Substation Apprenticeship 2A 0 hrs
Substation apprentices will learn about safety in substations and switchyards; electromagnetic induction; high voltage AC power; transformers; reading electrical system diagrams; and use of electrical test and line equipment.

CESN 0122 – Substation Apprenticeship 2B 0 hrs
Substation apprentices will learn about distribution line safety;material handling bucket trucks; power transformer insulation resistor testing, turns ratio testing, oil tests pressure relay testing and new inspection tests.

CESN 0231 – Substation Apprenticeship 3A **0 hrs**

Substation apprentices will learn about safety in substations and switchyards; circuit breakers; contact resistance testing; circuit breaker inspections, time travel and analysis; hydraulic derricks; digging equipment; rigging.

CESN 0232 – Substation Apprenticeship 3B **0 hrs**

Substation apprentices will learn about relay truck safety;capacitors and reactors; voltage regulators, relays 1 and 2;control equipment; high voltage terminations; and substation battery, chargers, replacement and testing.

CESN 0241 – Substation Apprenticeship 4A **0 hrs**

Substation apprentices will learn about SF6 gas properties and handling; current transformer testing; vacuum bottle hi-pot testing;inferred conditioning monitoring; corona discharge testing; and multi-meter operation and use.

CESN 0242 – Substation Apprenticeship 4B **0 hrs**

Substation apprentices will learn about safety in transmission and distribution maintenance; use of electrical test equipment; distribution line safety; power transformer turns ration testing and temperature indicating testing.

CESO 0100 – Exploring Sonography **0 hrs**

This course provides an overview of the medical sonography field as well as the Salt Lake Community College medical sonography program. Topics include preparing for a career in sonography, program overview, and perspectives from students as well as those employed in the field. This course is a required part of the Diagnostic Medical Sonography application process.

CESP 0001 – CNG Vehicle Conversions **0 hrs**

CNG Vehicle Conversion class includes theory behind the operation of CNG/NGV systems, conversion, installation, inspection and repair. This class is taught in a modern, up-to-date facility by experienced instructors and provides hands-on, practical application (including an actual conversion), as well as a solid preparation for relevant industry certifications.

CESP 0003 – Composites Level I **0 hrs**

Basic composites training including general overview of composites manufacturing, vacuum bagging and a hands-on project.

CESP 0014 – Composites Level II **0 hrs**

Composite level 2, molds-prepreg-cores.

CESP 0015 – Composites Level III **0 hrs**

Composites Materials Advanced Level 3 Certification.

CESP 0041 – Energy Investment Analysis **0 hrs**
Students will discuss appropriate energy efficiency measure investment, utility rate schedules, simple payback analysis, compound interest, time value of money, cost estimation and simulation tools.

CESP 0042 – Energy Accounting **0 hrs**
Review energy units, data gathering for energy accounting utility rates and schedules, energy data and organization baselines, cost avoidance, load factor, data analysis, and software and spreadsheet development.

CESP 0100 – Green Retrofitting **1.3 hrs**
Introduction to Green retrofitting methods for contractors. Topics include building evaluation, creating a retrofit plan with elements of energy, water and materials efficiency, indoor air quality and other green building features.

CESP 0102 – Introduction to Smart Grid **0 hrs**
Course provides an overview of Smart Grid concepts and technologies; defines the framework of the electric utility industry that is poised to make the transformation from a centralized, producer-controlled supply system to one that is less centralized and more consumer-interactive. Course topics include the technology enablers of Smart Grid, and the effects of public policy on Smart Grid implimentation.

CESP 0120 – RESNET/HERS Rater Exam Prep **0 hrs**
Introduction to integrating green methods into projects and remodels. Students will evaluate existing buildings and create a retrofit plan that incorporates elements of energy efficiency, water efficiency materials, indoor air quality and other green building features.

CESP 0130 – Weatherization **0 hrs**
This course introduces principles of weatherization, including career opportunities and safety concerns related to the field. Students will learn the energy auditing process for existing construction and will visit and receive training at the Intermountain Weatherization Training Center.

CESP 0150 – Energy Essentials **0 hrs**
Overview of energy production and transmission along with the roles it plays in industry, transportation, building and homes.

CESP 0175 – Math For Energy Industry **0 hrs**
This class includes an intensive basic math review and practical application of Measurements and Conversion. Algebra, Geometry and Trigonometry. Practical application will emphasize realistic mathematical problem solving in the Energy Industry, Basic Construction and Architecture/Drafting.

CESP 0180 – NAHB CGP **6 hrs**

The National Association of Homebuilder's Certified Green Professional¿ (CGP) designation recognizes builders, remodelers and other industry professionals who incorporate green building practices into homes without driving up the cost of construction. Classwork leading to the designation provides a solid background in green building methods, as well as the tools to reach consumers, from the organizaion leading the charge to provide market-driven green building solutions to the home building industry.

CESP 0200 – Basic Photovoltaic Systems **0 hrs**

Class will cover basic topics associated with the design and installation of photovoltaic systems.

CESP 0250 – Advanced Photovoltaic Systems **0 hrs**

This course builds upon the foundation of knowledge students acquire in the Basic course. After successful completion of course work in both the Basic and Advanced classes and additional field work students will be able to: safely work with photovoltaic systems; conduct site assessment, select appropriate system designs; adapt mechanical designs; adapt electrical designs; maintain and troubleshoot photovoltaic systems.

CESP 0300 – OSHA 10 Hour Safety Course **0 hrs**

Students will learn how to work and be part of a safe environment. Topics covered are: fall protection, fire protection, walking and working surfaces, electrical PPE, hazardous materials and what OSHA is. There are no pre-requisites for this class.

CESP 0310 – Lighting Fundamentals **0 hrs**

Assess quantity and quality of light, light sources and controls, luminaries, manufacturer lamp and ballust specifications, lighting power density and HVAC interactions, retrofit opportunities, cost saving annually, lighting codes/regulations and lighting audit projects.

CESP 0320 – Lighting Applications **0 hrs**

Review terminology and lightins fundamentals, IES illuminance selection procedures,lighting system evaluation luminaries and associated components. Perform illuminance calculations, including point-by-point, lumen and computerized procedures.

CESP 0400 – Basic Elect / Renewable Energy **0 hrs**

Designed to provide students with a basic understanding of electricity and the National Electric Code pertaining to the new renewable energy fields.

CESP 0410 – NEC 2011 Solar Photovoltaics **0.8 hrs**

Course covers 2011 NEC requirements that govern solar installations. Gain understanding of solar pv electrical energy systems and how they relate to other electrical power production sources.

CESP 0411 – Electrical Distribution System **0 hrs**

The design and construction of electrical distribution systems will be covered in this course. Topics include substations; overhead and underground transmission and distribution lines; conductors and insulators; high and low-voltage troubleshooting procedures; stringing and live-line procedures.

CESP 0420 – CPR & First Aid **0 hrs**

Students will obtain first-aid and CPR certification.

CESP 0430 – Energy Essent II-Basic Elect **0 hrs**

Designed to provide students with a basic understanding of electricity and the National Electric Code pertaining to the new renewable energy fields.

CESP 0450 – Transformer Basics **0 hrs**

This course exposes students to transformer design and operation that emphasizes the installation and maintenance of transformer equipment. Subjects include: three-phase transformers; autotransformers and reactors; safety requirements and troubleshooting.

CESP 0460 – Electricity for Power Industry **0 hrs**

An overview of basic electrical principles and theories as well as practical application for use in the power industry. Topics include Introduction to Electrical Circuits; AC and DC Electrical Theory; Basic Electronic Theory Electrical Test Equipment and introduction to the National Electric Code.

CESP 0500 – NABCEP PV Cert Exam Prep **1.6 hrs**

Review of course materials and procedures for students accepted by N A B C E P to sit for their Solar PV Installer Certification exam. Bring the National Electric Code Book (not handbook),Calculator, Pencil and Highlighter.

CESP 0510 – NABCEP Entry Level Exam **0 hrs**

Sit for the N A B C E P Entry Level Exam

CESP 0528 – Fundamentals of Tech Writing **2.4 hrs**

Learning the fundamentals of writing.

CESP 0560 – Pole Climbing, Ropes & Rigging **0 hrs**

Students will learn to identify and implement the proper application of ropes, slings and rigging for electrical industry applications. Subjects include the care and maintenance of ropes and equipment, and hands on training leading to proficiency in pole climbing and rigging tasks.

CESP 0600 – Print Reading **0 hrs**

An Introductory course in electrical utility blueprint reading which defines the physical and electrical arrangements of equipment including power plants, substations, transmisions lines, distribution lines and customer service facilities. This is a critical skill for individuals who operate, maintain, repair of modify utility equipment.

CESP 0610 – Digital Electronics **0 hrs**

An entry level course designed to give the student an understanding of digital electronic devices. The course covers number systems, binary mathematics, digital codes, logic gates, Boolean algebra, Karnaugh maps, and combination logic. Course emphasis is on circuit logic analysis and troubleshooting digital circuits.

CESP 0620 – Electromechanical Systems **0 hrs**

A study of devices and components that translate electrical energy into mechanical motion. Topics include DC and AC motors and controllers, servo motors, stepping motors, solenoids, linear motors, and actuators. The course also introduces the student to programmable logic controllers, ladder logic, and PID controllers

CESP 0630 – Underground Distribution Sys **0 hrs**

An introduction to basic switching and metering systems used in the power industry. Students are introduced to meter testing equipment, meter diagrams and standards, and will learn how to read watt hour and demand meters.

CESP 0910 – Computer Literacy Energy Sect **0 hrs**

Overview and Introduction to computer software applications used in the Energy Sector. Students will learn basic computers skills to use personal computers, the internet, documents and spreadsheets in the workplace.

CESP 0950 – Workplace Safety/ OSHA 3095 **0 hrs**

Indepth study of Electrical Standards of OSHA and the hazards associated with electrical installations and equipment. Topics include single and three phase systems, grounding, hazardous locations and safety-related work practices. Emphasis is placed on electrical hazard recognition and OSHA inspection procedures.

CESP 0980 – LeanErgy **0 hrs**

Students will learn management tools that can help identify opportunities for them to reduce energy use and other wastes as well as increase their work productivity and profitability.

CESS 0001 – Nat'l Admin Credential Upgrd **0 hrs**

Upgrade training for child care providers to obtain or maintain credentialing.

CESS 0007 – Basic Welding **0 hrs**
Students will complete stick welding and carbon arc gouging.

CESS 0018 – Workplace Skills & Advancement **0 hrs**
Workplace Skills to prepare employees for advancement and career planning.

CESS 0110 – Applied Emissions **0 hrs**
Prerequisite for the Salt Lake County course.

CESS 0120 – UHP Light Duty Inspection **0 hrs**
Passenger, light truck safety inspection for Utah Highway Patrol.

CESS 0130 – UHP Heavy-Duty Inspection **0 hrs**
Truck, trailer and bus safety inspection for Utah Highway Patrol.

CEST 0001 – Nat'l Admin Credential Upgrade **0 hrs**
Course consists of forty hours of classroom instruction, practice and evaluation in nine competency areas. Students are expected to complete projects and reading assignments between classes.

CEST 0003 – Composites Level I **4 hrs**
Basic composites training including general overview of composites manufacturing, vacuum bagging and a hands-on project.

CEST 0004 – J Standard Certification **0 hrs**
J-Standard certification training for companies who do government or other projects requiring certification.

CEST 0006 – Mastering Police Reprt Writing **0 hrs**
Professional police report writing made easier. Become more confident in your writing, listening, note-taking, organizational, diction, grammar, active voice, punctuation, narration, and thinking skills.

CEST 0007 – Introductory Welding **0 hrs**
At the end of 40 hours students will complete stick welding and carbon arc cutting and gouging.

CEST 0011 – Intermediate Welding Skills **0 hrs**
GMAW (MIG) Short Arc, pulsed, and spray, welding on various thicknesses, and in flat vertical, horizontal, and overhead procedures.

CEST 0012 – Fundmntl Effectve Briefings **0 hrs**
Basic techniques to create a more effective briefing message. Basic presentation techniques used by effective presenters. Participants will practice these writing and presentation skills and receive feedback on performance.

CEST 0013 – Advanced Effective Briefings **0 hrs**
Advanced techniques to create effective briefing messages. Learn advanced presentation techniques. Participants will practice these advanced writing and presentation skills and receive feedback on performance.

CEST 0014 – Composites Level II **8 hrs**
Composite level 2, molds-prepreg-cores.

CEST 0015 – Composites Level III **8 hrs**
Composites Materials Advanced Level 3 Certification.

CEST 0018 – Workplace Skills & Advance **0 hrs**
Workplace Skills and Advancement for Intermountain Health Care.

CEST 0019 – Business Writing for Managers **0 hrs**
Techniques for todays professional communicators for Tooele Army Depot. This is a hands-on, participatory, two-day workshop.

CEST 0026 – Basic Photovoltaic Systems **0 hrs**
Basic topics associated with the design and installation of photo voltaic systems.

CEST 0027 – Adv Photovoltaic Systems **0 hrs**
Advanced Solar Photovoltaic Installation Training.

CEST 0028 – De-Mystifying Marketing **0 hrs**
A workshop to become a better marketer. Develop data-driven marketing strategies that get results.

CEST 0029 – From Anergy to Synergy **0 hrs**
In Anery to Synergy, participants learn what the latest research teaches us about how our brains work and react to various situations and stimuli.

CEST 0030 – APICS-Basics of Supply Chain **0 hrs**
Basics of Supply Chain Management- elements of the supply chain.

CEST 0031 – Backflow Tester Certification **0 hrs**
Attendees will learn backflow theory, hydraulics, prevention devices, testing equipment, test reports, prevention assemblies, fire suppression codes, regulations, approvals.

CEST 0032 – Backflow Tester Re-Cert **0 hrs**
Attendees will learn backflow theory, hydraulics, prevention devices, testing equipment, test reports, prevention assemblies, fire suppression, codes, regulations, approvals, etc.

CEST 0033 – FastTrac New Venture **0 hrs**
Comprehensive entrepreneurship-educational program that provides entrepreneurs with business insights, leadership skills and professional networking so that they are prepared to create a new business or expand an existing enterprise.

CEST 0034 – 7 Habits of Small Bus Mgrs **0 hrs**
7 essential habits that highly effective managers share.

CEST 0035 – Human Resource Mgmt Cert Crse **0 hrs**
Human Resource Management Certificate Course

CEST 0036 – Medical Terminology **0 hrs**
This is a course for client employees to gain a better understanding of medical terminology. The Course will introduce the primary elements from which all medical terms are composed.

CEST 0037 – Foundations of Dementia Care **0 hrs**
Foundations of Dementia Care provides tools for dementia care. Leading the team, basics of quality dementia care, ways to empower care givers. Improving communications and understanding behavior.

CEST 0038 – Personal Finance **0 hrs**
This is a course for Community Health Center, Inc. employees to gain a better understanding of personal finance.

CEST 0039 – PHR Certification Course **0 hrs**
Eleven week HRM Certification Course. In-depth Human Resource Management Course which covers all six of the HRM functional areas and includes HRM best practices.

CEST 0040 – Lean Manufacturing 101: Intro **0 hrs**
Lean Manufacturing 101: An Introduction

CEST 0041 – Basic Electrical Theory **0 hrs**
Designed to provide students with a basic understanding of electricity and the national Electric Code pertaining to the new renewable energy fields.

CEST 0042 – ICD-10 CM Documentation & Comp **0 hrs**

This course covers family practice and general surgery speciality code details unique to ICD-10-CM, as well as information about documentation and compliance.

CEST 0043 – ICD-10-CM Documentation **0 hrs**

For those who have a basic understanding of ICD-10-CM, this course covers more detailed information about documentation and compliant. The topics discussed help to gain a thorough understanding of documentation as the key in code selection within the ICD-10-CM system.

CEST 0044 – Illustrator Level II **0 hrs**

This workshop is filled with interactive exercises designed to help students create artwork for both print and Web. Students will learn how to use advanced feature to Transform objects, apply Filters and Effects, automate tasks, modify images, 3D effects, Liquefy & Symbolism Tools.

CEST 0045 – Nail It Then Scale It Workshop **0 hrs**

Join the ranks of today's most innovative entreprenuers and experience success through the Nail It Then Scale It (NISI) Method.

CEST 0046 – TE350-BICSI ITS Technician **0 hrs**

Codes and standards/BICSI best practices and BICSI certification test.

CEST 0047 – Supervisor Training Class **0 hrs**

Students will learn a range of supervisor skills such as management techniques, mediating insight, and stress management reduction.

CEST 0048 – Gen Computer & Internet Tools **0 hrs**

Introduction to genealogy computer programs and basic genealogy skills used to conduct research and document records with appropriate citations. Students will learn how to use Internet tools for genealogy research.

CEST 0049 – Mastery of Bus Fundamentals **0 hrs**

Acquire practical experience in strategic planning, management, and finance without enrolling in an MBA program.

CEST 0054 – Utah Performance Testing **0 hrs**

This is a fun interactive workshop that will allow participants to have a big picture understanding of the Utah Performance testing process. Come and get your questions answered and tour the testing facilities.

CEST 0055 – Intro to Core Skills for CDI **0 hrs**

This course will explore the key skills required for Deaf Interpreters including mirroring, consecutive interpreting, processing information, memory skills, expansion, simultaneous interpreting and sight translation ethics, team interpreting and various interpreting settings will also be discussed.

CEST 0056 – NIC Interview Skills **0 hrs**

This seminar will give an overview of the NIC Interview Exam. The Demand Control Schema will be used as a framework for guiding participants to develop problem solving skills that can be applied to the NIC Interview. Students will have the opportunity to have hands on practice receiving feedback from instructor and peers.

CEST 0057 – Project Mgmt Fundamentals **0 hrs**

Gain the skills youll need to succeed in the fast growing field of project management.

CEST 0058 – Project Mgmt Applications **2.4 hrs**

Experienced project manager teaches you tricks of the project management trade.

CEST 0060 – 2011 National Electrical Code **0.8 hrs**

Course will cover over 400 new codes and definitions of the 2011 NEC Requirements for electrical installations. Major changes allowing new forms of alternate energy to power electric vehicles will be studied.

CEST 0090 – Electrical Safety & Code Rev **0.8 hrs**

Course covers new code changes, existing code, and common mistakes made on job sites. Learn how to prevent costly mistakes resulting in fines and penalties. New rules on lugs and terminals and GFCI placement in residential dwellings reviewed. Safety, personal protective equipment, OSHA rules, grounding rules and motor control diagrams covered. Must bring a 2011 code book and a calculator to class.

CEST 0091 – Gen Computer & Internet Tools **0 hrs**

Introduction to genealogy computer programs and basic genealogy skills used to conduct research and document records with appropriate citations. Students will learn how to use Internet tools for genealogy research.

CEST 0100 – Exectv Cert of Globl Bus Mgt **0 hrs**

Hands-on course to increase knowledge and improve strategies in global business practices.

CEST 0101 – CNG Vehicle Conversions **0 hrs**

Course prepares automotive technicians with skills to maintain CNG vehicles. Safely convert gasoline powered dedicated light duty natural gas vehicles or duel fuel powered vehicles. Prior experience as an automotive technician or completion of one semester of automotive course work.

CEST 0102 – Creating Web Pages **2.4 hrs**
Learn how to design, create and post your very own website on the Internets WWW. Discover low-cost marketing techniques and search engine strategies.

CEST 0110 – Applied Emissions **0 hrs**
Prepares students for the certification class at the Salt Lake Valley Health Department.

CEST 0120 – UHP Light Duty Inspection **0 hrs**
Passenger, light truck safety inspection for Utah Highway Patrol.

CEST 0130 – UHP Heavy Duty Inspection **0 hrs**
Truck, trailer and bus safety inspection for Utah Highway Patrol.

CEST 0146 – Introduction to SQL **2.4 hrs**
Learn key concepts of Structured Query Language and knowledge of this database programming language. Learn basic structure of relational databases, how to read and write SQL statements and advanced data manipulation techniques.

CEST 0150 – Outlook **0 hrs**
Students will learn the basic skills necessary for working with Outlook, Email, Calendar, Tasks, Contacts and Notes.

CEST 0164 – Intro to Java Programming **0 hrs**
Learn Java but dont need prior programming knowledge. Practical exercises and examples teach you the most important Java concepts including databases and Java Server Pages.

CEST 0172 – Get Assertive! **0 hrs**
Are you tired of being intimidated by others? Learn the skills to be assertive with bosses, co-workers, friends and family members, and how to diffuse anger and avoid criticism.

CEST 0173 – Grammar Refresher **0 hrs**
Gain confidence in your ability to write grammatically correct documents or speeches. Using definitions, examples, and reinforcing exercises youll cover the basics of grammar.

CEST 0175 – Math for the Energy Industry **0 hrs**
Students will learn the necessary math skills for application in the electrical industry. Content includes fundamental concepts of algebra, equations, and basic trigonometry that relates to industry scenarios.

CEST 0201 – BIM for Contractors - II **0 hrs**

Build more for BIM managers and those individuals who will interact at a higher level with the technology. The recommended Technology would be Navisworks Manage, Sketch up and Revit Architecture.

CEST 0202 – BIM for Contractors - I **0 hrs**

Specific Construction Management context. What is BIM? Definitions and introduction into terminology. Software introduction into various types and functions of the BIM software. Hardware needed; Intro to Revit/Revit Structure/Revit MEP, Navigation, Navisworks, BIM basic Project Management.

CEST 0205 – Navisworks Manage 2011 **0 hrs**

Autodesk Navisworks Manage provides the most complete Navisworks design project review solution. Includes the functionality of both Autodesk Navisworks Review and Autodesk Navisworks Simulate.

CEST 0206 – Advanced Navisworks Manage **0 hrs**

Advanced Navisworks Manage is Continuation of Navisworks I. Hands on lab work exploring the work flow processes of Timeliner, Clash Detective, & Presenter. Attendees will learn through hands-on lab work the necessary work flow process involved in using Timeliner, Clash Detective and Presenter. A basic understanding of Navisworks functions, navigation and tools should be understood before taking the course.

CEST 0211 – Excel Large Worksheets **0 hrs**

Cross with CECW 0211 Excel Large Worksheets.

CEST 0212 – Excel Charts & Graphics **0 hrs**

CEST 0213 – Excel Database/Pivot Tables **0 hrs**

Learn how to take raw data and create valuable management reports.

CEST 0214 – Excel Advanced Functions **0 hrs**

Cross with CECW 0214.

CEST 0215 – Excel Templates/Sharing Tools **0 hrs**

Learn how to use Excel templates and sharing tools.

CEST 0228 – Quickbooks Professional **0 hrs**

This workshop includes QuickBooks Beginning, Intermediate and Advanced workshops.

CEST 0229 – QuickBooks Beginning **0 hrs**

This workshop will review general accounting basics and how QuickBooks works.

CEST 0231 – QuickBooks Intermediate **0 hrs**
Tracking fixed assets and their associated liablities, depreciation, prepaid expenses, memorized transactions making deposits not related to receivables, sales tax, bank recons., petty cash etc.

CEST 0232 – QuickBooks Advanced **0 hrs**
Setting up and tracking payroll liabilities, adding employees, payroll items, year-to-date issues, additions and deductions, preparing quarterly 941, making payrol tax deposits, process payroll checks, reports.

CEST 0233 – Excel Level I **0 hrs**
Module introduces the basic skills necessary for creating, printing and saving Excel workbooks.

CEST 0234 – Word Level I **0 hrs**
Module teaches students how to create, format, print and save Word documents.

CEST 0235 – Word Level II **0 hrs**
Word Level II

CEST 0236 – Word Level III **0 hrs**
This workshop covers several topics that help the student perform tasks more efficiently and working with long documents

CEST 0240 – CNC Design & Metal Fabrication **0 hrs**
Using CNC Plasma Cutting Machine, fabricate parts and whole pieces directly from computer, or import and modify files from numerous sources. Discover and Implement project design methods using computerized designing software.

CEST 0251 – Accounting Fundamentals **0 hrs**
This course will teach you the basics of double-entry bookkeeping, and how to analyze and record financial transactions and prepare various financial reports.

CEST 0252 – Effective Business Writing **2.4 hrs**
If you communicate with others in writing, this course will help you identify and eliminate problem areas, and learn the secrets to developing powerful written documents.

CEST 0301 – Revit MEP **0 hrs**
Building infomration modeling and the tools for parametric MEP systems design and documentation using Autodesk Revit MEP.

CEST 0302 – Autodesk Revit MEP-HVAC/Plumb **0 hrs**
Revit MEP basic specific to HVAC/Plumbing.

CEST 0303 – Autodesk Revit MEP/Eletrical **0 hrs**
Revit MEP basics, specific to electrical.

CEST 0304 – Advanced Revit Architecture **0 hrs**
Advanced Revit Architecture, Parametric building modeler for architects that allow changes anytime, anywhere in the design process.

CEST 0346 – Intro to PHP & MySQL **0 hrs**
Learn to build dynamic, data-driven Web site using two of the most popular technologies available: PHP and My SQL.

CEST 0350 – Accounting Fundamentals II **0 hrs**
Give yourself skills that are in high demand by exploring corporate accounting with a veteran instructor.

CEST 0354 – Beginning Writer's Workshop **2.4 hrs**
Get a taste of the writers llife and improve your writing skills in this introduction to writing creatively.

CEST 0365 – Introduction to Linux **0 hrs**
Six week online course, you¿ll master the free Linux desktop system, which can perform all of the functions you currently do with Microsoft Windows or Apple Macintosh.

CEST 0373 – Intro to C# Programming **0 hrs**
Learn the fundamentals of computer programming with the new C+ programming language.

CEST 0376 – Work w/Learn Disabled Children **0 hrs**

CEST 0400 – AutoCAD I **0 hrs**
Over 70 percent of the 2D drafting commands is covered. Draw, edit, construct and display drawings. Learn to use layering, dimensioning and text to create simple drawings with notes and title blocks. Finally plot these drawings.

CEST 0401 – Basic Electric for Power Indus **0 hrs**
An overview of basic electrical theory and the National Electric Code in conjunction with practical applications used in the energy industry. Specific topics include: Electrical circuits; DC Electrical Theory; AC Electrical Theory; Basic Electronic Theory; Electrical Test Equipment; and the National Electric Code.

CEST 0405 – Access Level I **0 hrs**

This workshop teaches students how to create a MS Access database or how to modify your existing database. Topics include creating tables, creating relationships between tables, setting field properties, filtering and sorting records. You will also learn how to create simple queries and modify query results using Design View and create basic Forms and Reports using the Wizards. Time is reserved for assistance on your specific needs and projects.

CEST 0406 – Access Level II **0 hrs**

Cross with CECW 0406.

CEST 0408 – Illustrator Level I **0 hrs**

Introduce students to Adobe Illustrator, open a file, identify interface components; Navigate in the artwork window, create a manage files; create & manage files. Create shapes & text; Modify objects use & modify tools. Add colors patterns & gradients to objects. Copy paint attributes between objects.

CEST 0411 – Electrical Distribution Sys **0 hrs**

The design and construction of electrical distribution systems will be covered in this course. Topics include substations; overhead and underground transmission and distribution lines; conductors and insulators; high and low-voltage troubleshooting procedures; stringing and live-line procedures.

CEST 0415 – MS PowerPoint 2007 **0 hrs**

CEST 0425 – Intro to Ms Excel 2007 **0 hrs**

Learn how Microsofts powerful database can help you store and manage information youve collected about your business, home, or community.

CEST 0431 – Intro to Ajax Programming **0 hrs**

Learn Ajax programming (HTML, JavaScript, XML, PHP, and more) to create Web applications with desktop-like performance.

CEST 0450 – Transformer Basics **0 hrs**

This course exposes students to transformer design and operation that emphasizes the installation and maintenance of transformer equipment. Subjects include: three phase transformers; sutotransformers and reactors; safety requirements and troubleshooting.

CEST 0464 – Intermediate Java Programming **0 hrs**

Deepen your understanding of the Java programming language, and start writing programs that are more sophisticated and professional.

CEST 0473 – Intermediate C# Programming **0 hrs**

Learn to write Graphical User Interface programs in the C# Programming Language.

CEST 0490 – Creating WordPress fWebsites **0 hrs**
Learn how to use WordPress to quickly and easily create attractive blogs and interactive Web sites.

CEST 0500 – A+ Certification **0 hrs**
The Computer Support Specialist Program covers system assembly, computer repair, troubleshooting skills, network support, customer service, and software installation.

CEST 0501 – AutoCAD II **0 hrs**
AutoCAD Intermediate.

CEST 0502 – Security + Certification **0 hrs**
Security + Certification, Securing network services, network devices and network traffic. This course is to prepare for the CompTIA Security + examination.

CEST 0505 – Pole Climbing Ropes & Rigging **0 hrs**
Students will learn to identify and implement the proper application of ropes, slings, and rigging for electrical industry applications. Subjects include the care and maintenance of ropes and equipment, and hands-on training leading to proficiency in pole-climbing and rigging tasks.

CEST 0506 – Revit Structure **0 hrs**
Learn about building information modeling and the tolls for parametric structural design and documentation. Will learn the fundamental features of Revit Structure, Schematic Design, and construction documentation.

CEST 0507 – MS Office Overview **0 hrs**
Students will learn the basics of Microsoft Office Suite, including Word, Excel and PowerPoint.

CEST 0510 – MCITP **0 hrs**
6421 Configuring and Troubleshooting a Windows Server 2008 Network Infrastructure.6425 Configuring Windows Server Active Directory Domain Services.6426 Configuring Identity and Access Solutions with Windows Server 2008 Active Directory.6430 Planning and Administering Windows Server 2008 Servers.

CEST 0521 – Intermediate MS Word 2010 **0 hrs**
Learn Microsoft Word's more advanced features in Intermediate Word, which can make writing easier, faster, and more fun.

CEST 0530 – Mac, Iphone & Ipad Programming **2.4 hrs**
Learn to use the free Xcode compiler and the Objective-C programming language to program your own apps that you can sell through Apple's App Store.

CEST 0550 – GibbsCAM Training **0 hrs**

Level 1 Production Milling and Turning Geometry creation/ CAM programming. Level 2 Advanced Milling Solids.

CEST 0564 – Intro to JavaScript **0 hrs**

Learn how to add interactivity, such as buttons, picture carousels and collapsible panels to your HTML and CSS websites with JavaScript programming skills.

CEST 0600 – Print Reading **0 hrs**

An introductory course in electrical utility blueprint reading which defines the physical and electrical arrangements of equipment including power plants, substations, transmission lines, distribution lines and customer service facilities. This is a critical skill for individuals who operate, maintain, repair or modify utility equipment.

CEST 0602 – Communicating for Results **0 hrs**

Communicating for results gives the student the opportunity to explore how communication styles effect overall performance. It improves both verbal and non-verbal communication skills to become more effective in groups or individual communication settings.

CEST 0603 – Dreamweaver **0 hrs**

Cross listed with CECW 0603, DreamWeaver.

CEST 0607 – Flash **0 hrs**

Cross listed with CECW 0607 Flash.

CEST 0610 – Digital Electronics **0 hrs**

An entry level course designed to give the student an understanding of digital electronic devices. The course covers number systems, binary codes, logic gates, Boolean algebra, Kamaugh maps, and combination logic. Course emphasis is on critical logic anaylsis and troubleshooting digital circuits.

CEST 0612 – CSS & XHTML **0 hrs**

Tasks include gaining an understanding of HTML and tags that every Web page must have, creating a simple web page, linking to other Web pages within you own page, aligning text, list, formatting text, using graphics/backgrounds.

CEST 0621 – Electromechanical Systems **0 hrs**

A study of devices and components that translate electrical energy into mechanical motion. Topics include DC and AC motors and controllers, servo motors, stepping motors, solenoids, linear motors, and actuators. This course also introduces the student to programmable logic controllers, ladder logic, and PID controllers.

CEST 0629 – Taking the HEAT **0 hrs**
Students will learn a set of best practices for taking the heat to turn difficult customer situations into positive interactions.

CEST 0630 – Underground Distribution Sys **0 hrs**
This course expands on concepts learned from CESG 0441 focusing on underground power systems and practices. Topics include underground distribution, conductors and insulators, and high and low voltage troubleshooting.

CEST 0700 – PhotoShop Level I **0 hrs**
Designed to help create images for print and web. Use of Photoshops, palettes and features to create images, retouch photographs and save files using multiple file formats.

CEST 0701 – Publisher **0 hrs**
Tasks include exploring Publisher, working with publications, using the Wizard, adding text to a frame, correcting spelling errors, enhancing publication text, printing and publishing presentations.

CEST 0702 – Photoshop Level II **0 hrs**
This workshop covers the advanced features and functions of Photoshop. Students will learn how to edit images and create artwork for both print and the Web.

CEST 0703 – BMLI-Setting Performance Expec **0 hrs**
This course helps leaders drive performance and accountability by helping people understand what is expected of them and gaining their commitment to achieving it.

CEST 0704 – BMLI-Coaching For Improvement **0 hrs**
Helps leaders conduct effective discussions and provide the feedback and ongoing support people need to improve performance.

CEST 0705 – BMLI-Coaching For Success **0 hrs**
Develops leaders who help people achieve goals and avoid problems, a positive experience for themselves and those being coached.

CEST 0706 – BMLI-Delegating For Results **0 hrs**
In this course, leaders overcome their hesitation to delegate by learning skills for successfully matching people with responsibility and authority.

CEST 0707 – BMLI-Essentials of Leadership **0 hrs**
Teaches leaders how to get results through people.

CEST 0708 – BMLI-Starting as a New Leader **0 hrs**
Arms new leaders with the knowledge and skills they need to confront the challenges associated with getting their footing and results as a new leader more quickly.

CEST 0709 – BMLI-Leading Change **0 hrs**
This course focuses on leaders crucial role in initiating change in the workplace.

CEST 0710 – BMLI-Lead High Performing Team **0 hrs**
This course provides team leaders with the tools and skills to perform three primary responsibilities-diagnose, coach and reinforce.

CEST 0711 – BMLI-Resolving Conflict **0 hrs**
This course teaches leaders how to recognize that a conflict is escalating and minimize damage by using the most appropriate resolution tactic.

CEST 0712 – BMLI-Lean Six Sigma Green Belt **0 hrs**
Learn how to identify and implement changes in operation aimed at reducing waste, cost, time and variation.

CEST 0713 – BMLI-Lean Six Sigma Black Belt **0 hrs**
Learn how to lead teams for change and improvement.

CEST 0714 – Project Mngmnt Prof Exam Prep **0 hrs**
Prepares students to successfully pass the PMP exam.

CEST 0715 – BMLI-Developing Others **0 hrs**
Course provides leaders, coaches and mentors with a practical process and the skills necessary to develop talent.

CEST 0717 – BMLI-Intro to Natural Gas Meas **0 hrs**
Intro to Natural Gas Measurement is a pilot course utilizing curriculum developed by the Gas Measurement Training Council. It will provide an overview of the natural gas measurement and transmission industry and the basic skillsets necessary to work as a field technician. Topics will include gas properties, fluid mechanics, gas flow measurement, gas meters, and industry standard safety guidelines.

CEST 0718 – BMLI-Bldg Enviroment of Trust **0 hrs**
New course, allows leaders to creative an environment of trust with their employees as well as between employees.

CEST 0719 – BMLI-Project Management 101 **0 hrs**

Project Management 101 provides students with an overall understanding of project management by focusing on the basic concepts, definitions, tools, strategies, processes, and phases associated with project management. Students will be able to adapt t he generalized knowledge and principles offered to fit within their unique and specific workplace project needs.

CEST 0720 – BMLI-Quality 101 **0 hrs**

Quality 101 is designed to meet organizational needs for foundational quality knowledge and competence. This course satisfies 6.2 human resource requirements and provides documentation for ISO 9001:2008, TL9000, TS 16949 and AS9000 standards that cover competence, awareness and training. Helps prepare individuals for the Quality Improvement Associate (QIA) certified exam. Introduces quality concepts and terminology to non-quality practitioners involved in Lean Six Sigma initiatives.

CEST 0721 – Build & Deliver Effect Trng **0 hrs**

This course focuses on how to build and deliver meaningful training courses and programs within an organization. During this eight-hour session, effective training principles will be covered.

CEST 0722 – BMLI-Customer Service Excellen **0 hrs**

This foundational course provides individuals with a powerful set of interaction skills that enables them to communicate more effectively with colleagues and customers, and in the process, build trust, strengthen partnerships, and achieve desired results.

CEST 0723 – Personal Empowerment **0 hrs**

This course seeks to change the mindset that empowerment is something that is given. It helps employees see that they can and should look for improvement opportunities. It helps leaders to make their jobs more interesting, motivating, and rewarding and makes them a more valuable asset to their organization.

CEST 0724 – Taking Action to Solve Problem **0 hrs**

This course provides leaders, coaches, and mentors with the skills and the practical process necessary to develop talent. Participants will examine the leader's role before, during, and after the development plan.

CEST 0725 – Lean Six Sigma Yellow Belt **0 hrs**

Lean Six Sigma Yellow Belt teaches Lean Six Sigma fundamentals, its application, and methods for improving participation of project team members. Yellow Belt team members form an important link in a mature Lean Six Sigma deployment.

CEST 0730 – Autodesk Civil 3D **0 hrs**
Students learn to create and edit points, alignments, and profiles, create and analyze surface data. They will perform corridor modeling, create subassemblies and cross-sections, and perform grading operations.

CEST 0735 – Windows Overview **0 hrs**
Learn the basics of Personal Computers hardware/software components, Windows features, Start Menu, Taskbar, views and toolbars.

CEST 0800 – AutoDesk Revit Architecture **0 hrs**
Leatn the tools to create, document and print a parametric building design model.

CEST 0801 – Autodesk Revit Families **0 hrs**
Extrusions, blends, reference lines and planes, family categories, labels parameters, type catalogs, constraints and connectors.

CEST 0802 – ESL Level I **0 hrs**
English as a second language for medical employees of IHC.

CEST 0803 – ESL-Workplace Lev 2 **0 hrs**
ESL workplace Level 2.

CEST 0804 – Workplace College Skills **0 hrs**
Students will increase their fluency with spoken and written English, primarily as it applies to the work environment.

CEST 0853 – Project Management **0 hrs**
Master the skills you need to get started in project management or take your career to the next level.

CEST 0874 – Human Resources Prof **0 hrs**

CEST 0880 – Solidworks **0 hrs**
3D CAD solution providing data management and communication tools.

CEST 0881 – Advanced Solidworks **0 hrs**
A complete 3D CAD solution providing tour design team with all of the data management and communication tools. Learn to work smarter and faster with SolidWorks

CEST 0890 – Autodesk Inventor **0 hrs**
Basic Autodesk Inventor fatures used to create, edit, document and print parts or assemblies.

CEST 0892 – CDL Tractor Training **0 hrs**
Tractor Trailer Training. Safe driving trailer backing, parallel parking for small trucks.

CEST 0901 – Employment Law For Managers **0 hrs**
The basics of employment law for managers and supervisors.

CEST 0919 – Intro Medical Device Industry **24 hrs**
Course provides an overview of the medical device industry, particularly in Utah. Topics include diversity of products, size & scope of industry, current trends & product life cycle-from conception to market approval & distribution.

CEST 0920 – Basic Manufacturing Skills **24 hrs**
Course focuses on fundamental principles of measurement, performing measurements, data management & analysis related to medical device mfg. Mastery of these skills is key to a successful career in the medical device/bioscience industry.

CEST 0950 – CPR/ First Aid Certification **0 hrs**
This is a national safety and first aid course AED.

CEST 0970 – Autodesk 3DsMax Design **0 hrs**
A complete end to end reference that provides users with complete info on all of the features and options available in the latest version of 3DsMax design.

CEST 0980 – Autodesk 3ds Max Design II **0 hrs**
A complete end to end reference that provides users a complete info on all of the features and options available in 3ds max design. This is an advanced course.

CEST 0990 – MS Office Special Topics **0 hrs**
Special Topics Course

CETG 0010 – Fund. of Supervision & Mgmt. 1 **2.4 hrs**
Master the basics of business, learn the people skills required to motivate and delegate, and learn tools for solving problems and resolving conflicts.

CETG 0011 – Fundamentals of Supv & Mgmt 2 **2.4 hrs**
Learn how to be an effective manager or supervisor. Master the basics of communicating effectively, and learn tools for developing your own interpersonal skills.

CETG 0012 – Purchasing Fundamentals **2.4 hrs**
Improve your companys bottom line by mastering the fundamentals of purchasing.

CETG 0013 – Admin Asst Fundamentals **2.4 hrs**
Prepare to take advantage of the many new job opportunities in health care, legal services, and other industries.

CETG 0014 – Admin Asst Applications **2.4 hrs**
Gain the skills and knowledge youll need to prepare for the Certified Administrative Professional exam and begin a rewarding career as an administrative assistant.

CETG 0015 – Employment Law Fundamentals **2.4 hrs**
Learn the basics of employment law so you can legally hire, evaluate, and manage employees. Learn basic benefit info, evaluation and termination procedures, and dispute resolution.

CETG 0016 – Supply Chain Management Fund **2.4 hrs**
Master the fundamentals of supply chain management and prepare for internationally recognized certification examinations.

CETG 0017 – Project Management Fundamental **2.4 hrs**
Gain the skills youll need to succeed in the fast growing field of project management.

CETG 0018 – Project Mgmt Applications **2.4 hrs**
Experienced project manager teaches you tricks of the project management trade.

CETG 0019 – Six Sigma: Ttl Qualty Fndmntls **2.4 hrs**
Learn the basics of total quality management.

CETG 0020 – Six Sigma: Total Quality App's **2.4 hrs**
Learn to apply the elements and methods of Six Sigma to achieve the highest possible quality.

CETG 0021 – PMP Certification Prep 1 **2.4 hrs**
Begin a well-paying career as a project manager by preparing to take - and pass- the PMP certification exam.

CETG 0022 – PMP Certification Prep 2 **2.4 hrs**
Prepare to take and pass the Project Management Institutes PMP certification exam.

CETG 0023 – Managing Customer Service **2.4 hrs**
Become indispensable to any organization by understanding how to identify and meet customer needs.

CETG 0024 – Intro to NonProfit Mgt **2.4 hrs**
Develop the skills and strategies you need to become an integral part of one of Americas fastest growing service sectors.

CETG 0025 – Marketing Your Non-Profit **2.4 hrs**
Further the ideals and goals of your nonprofit by learning to compete more effectively for members, media attention, donors, clients, and volunteers

CETG 0026 – Starting a Non-Profit **2.4 hrs**
Industry veteran shows you how to take a non-profit business from vision to reality.

CETG 0027 – Non Profit Fundraising Essen **2.4 hrs**
Learn the basics of fundraising for nonprofit organizations, from annual and special fund drives to more advanced projects involving corporate and foundation relations, major gifts, and planned giving.

CETG 0031 – Manufacturing Fundamentals **2.4 hrs**
Learn the basic skills required to work in the manufacturing field.

CETG 0032 – Manufacturing Applications **2.4 hrs**
Increase efficiencies and productivity by learning to apply the principles and concepts of manufacturing.

CETG 0033 – Distribution & Logistics Mgmt **2.4 hrs**
Learn how to improve your companys distribution and logistics management activities.

CETG 0034 – Understanding Human Res. Funct **2.4 hrs**
This course is designed to help people without experience in human resources and prepares managers and business owners to handle human resource functions to ensure good results.

CETG 0035 – Intro to Business Analysis **2.4 hrs**
Learn powerful techniques to improve your decision making skills at work.

CETG 0036 – Building Teams that Work **2.4 hrs**
Learn the secrets of dynamic team building.

CETG 0037 – Mstry of Business Fundamentals **2.4 hrs**
Acquire practical experience in strategic planning, management, and finance without enrolling in an MBA program.

CETG 0038 – High Speed Project Mgmt **2.4 hrs**
Break through model for dealing with realities of managing projects at supersonic speeds. Meet and win challenges of truncated timelines, short-staffed project teams, skimpy budgets and crippling risks.

CETG 0100 – Creating Web Pages **2.4 hrs**
Learn how to design, create and post your very own website on the Internets WWW. Discover low-cost marketing techniques and search engine strategies.

CETG 0101 – Intro to PC Troubleshooting **2.4 hrs**
This class will take you through the typical hardware and operating system problems and teach you how to diagnose and fix the more advanced and nasty problems.

CETG 0120 – Start/Operate Home Business **2.4 hrs**
Home-based businessess are the hottest business trend of the decade! Learn how to be your own boss and eliminate the stress of having a job.

CETG 0126 – Start Your Own Consulting Firm **2.4 hrs**
Find out how you can earn income by sharing your training or knowledge with others.

CETG 0127 – Write Your Life Story **2.4 hrs**
Have you thought about writing your life story but dont know where to start? This course teaches you how to write your life story. Its a story only you can tell!

CETG 0129 – Home School W/Success **2.4 hrs**
Discover how to home school your children in a way that ensures they get what they need both academically and socially.

CETG 0131 – Travel Writing **2.4 hrs**
Learn from a New York Times bestselling author the secrets for turning a book idea into a winning proposal to sell to publishing houses.

CETG 0132 – Basic CompTIA A+ Certification **2.4 hrs**
This Hardware 1 course teaches you how to configure and troubleshoot the hardware common to almost every computer, microprocessors, RAM, power supplies, motherboards, drives.

CETG 0133 – Interm CompTIA A+ Cert **2.4 hrs**
This course teaches you DOS, DOS memory management, Windows 3.x tweaking and troubleshooting, Windows 9x installation, optimization and troubleshooting.

CETG 0134 – Adv CompTIA A+ Certification **2.4 hrs**
This course takes you through an extensive set of technology including SCSI, video, modems, printers, multimedia, portable PCs and networking, completing your understanding.

CETG 0135 – Medical Transcription **2.4 hrs**
Learn how to transcribe the medical reports most often used in healthcare today.

CETG 0138 – Blogg and Podcast for Beginner **2.4 hrs**
In this course, youll join the Web 2.0 world as you learn how to create and maintain your own blog, wiki, and podcast.

CETG 0139 – Medical Terminology **2.4 hrs**

The Anatomy of Medical Terminology teaches terminology from an anatomical approach using root terms. A students learning will allow them to interpret medical notes.

CETG 0140 – Intro to Natural Health & Heal **2.4 hrs**

This course is designed for anyone who wants to learn how to promote wellness, balance and health in their daily lives, and will give students an understanding of natural health.

CETG 0141 – Craft of Magazine Writing **2.4 hrs**

Turn your dreams into bylines and help yourself to a bright future as a magazine writer. Its a great source of extra income and this class will teach you all the skills you need

CETG 0142 – Writerific Creativity Training **2.4 hrs**

In this class, youll learn lots of tricks from a published writers toolbox. Writerrific liberates the imagination and the inventive bolts of genius that are in everyone.

CETG 0145 – Intro to Database Development **2.4 hrs**

You will be guided step-by-step through all phases of a system development project to guarantee that the resulting product will not only work as it was designed, but respond to user needs.

CETG 0146 – Introduction to SQL **2.4 hrs**

Learn key concepts of Structured Query Language and knowledge of this database programming language. Learn basic structure of relational databases, how to read and write SQL statements and advanced data manipulation techniques.

CETG 0151 – Designing Effective Websites **2.4 hrs**

This course will teach you powerful graphic design technique that will help you build Web sites that are attractive and highly effective. Youll also learn what attracts visitors.

CETG 0152 – Speed Spanish **2.4 hrs**

This course is designed for anyone who wants to learn Spanish pronto! Youll learn six recipes for gluing Spanish words together to form sentences.

CETG 0153 – Grammar for ESL **2.4 hrs**

If English is your second language, this class will provide you with an in-depth analysis of English grammar and structure so that you can communicate better in English.

CETG 0154 – A to Z Grant Writing **2.4 hrs**

This is an invigorating and informative seminar created for executive directors, organizers, board members, volunteers and others who want to learn the grant writing process.

CETG 0155 – Becoming a Grant Writng Consul **2.4 hrs**
Learn how you can use a basic knowledge of grant or proposal writing to become an expert in the red-hot grant consulting field. Use your creative writing skills to make a difference.

CETG 0158 – Writing Essentials **2.4 hrs**
Excel at business communications, express yourself clearly online, and take your creative literary talents to a new level.

CETG 0160 – Introduction to Stock Options **2.4 hrs**
Learn how to evaluate, buy, sell and profit with investment tools that used to only be for pros. Learn how to protect your portfolio and profit in an up, down or flat market.

CETG 0164 – Intro to Java Programming **2.4 hrs**
Learn Java but dont need prior programming knowledge. Practical exercises and examples teach you the most important Java concepts including databases and Java Server Pages.

CETG 0168 – Key to Effective Communicating **2.4 hrs**
Lost for words? Dont be! Learn communication tools to make a good first impression and build rapport. Become more confident to build better personal and work relationships.

CETG 0171 – Success with Difficult People **2.4 hrs**
Learn how to have successful relationships with difficult bosses, co-workers, students, neighbors and family members. Understand communication styles to resolve people problems.

CETG 0172 – Get Assertive!! **2.4 hrs**
Are you tired of being intimidated by others? Learn the skills to be assertive with bosses, co-workers, friends and family members, and how to diffuse anger and avoid criticism.

CETG 0173 – Grammar Refresher **2.4 hrs**
Gain confidence in your ability to write grammatically correct documents or speeches. Using definitions, examples, and reinforcing exercises youll cover the basics of grammar.

CETG 0174 – 12 Steps Successful Job Search **2.4 hrs**
Get the job you want quickly and easily in any economy. Youll learn step-by-step how to build rapport and the six phases of a successful job interview. Increase your confidence, too!

CETG 0175 – Resume Writing Workshop **2.4 hrs**
Create an effective resume, or improve the one you have. Transform your resume into a powerful tool to get that interview! Learn effective styles, persuasive cover letters.

CETG 0176 – Individual Excellence **2.4 hrs**
Master 12 career-enhancing skills including goal setting, time management, personal organization, and creativity. Also gain confidence and learn to minimize conflict in your life.

CETG 0177 – Creating a Successful Bus Plan **2.4 hrs**
Turn your business ideas into a solid plan for finance and long-term success. Learn the major components and emerge with a draft in hand. Youll complete that important first step!

CETG 0182 – Write Effective Grant Proposal **2.4 hrs**
Learn to prepare proposals that get results for your group or organization. Avoid the mistakes that get worthy proposals tossed into the trash!

CETG 0183 – Understanding Adolescents **2.4 hrs**
To know your kids is to love them! This course will help you gain an understanding and appreciation of your adolescents behavior. Learn steps to meet their needs.

CETG 0185 – Achieving Top Search Engine **2.4 hrs**
Nearly 90% of web traffic comes from search engines. Learn how to achieve the highest possible position with the major search engines.

CETG 0187 – Keyboarding **2.4 hrs**
Using the computer software program FasType for Windows, you will learn the basic skills of touch typing. This course will help you improve your speed and accuracy.

CETG 0188 – Lose Weight & Keep it OFF! **2.4 hrs**
Do you want to lose weight and keep it off? Now you can! In this comprehensive course, youll discover how to establish a healthy approach to weight loss and weight maintenance. Youll master how to set and achieve weight-loss and weight-maintenance goals that make sense for you.

CETG 0192 – Discover Digital Photography **2.4 hrs**
This course provides an introduction to the fascinating technology of digital photography. Youll learn the basics of equipment, software, printing, Internet and email use.

CETG 0193 – Guide Your Kids on Internet **2.4 hrs**
This essential course for teachers, leaders and parents will give you the confidence you need to help children get the best from the Internet and use its to its full potential.

CETG 0194 – Grow Plants for Fun & Profit **2.4 hrs**
This course is a practical guide to licensing, site preparation, equipment, how and where to find supplies, how to select plants and how to market your product.

CETG 0204 – Genealogy Basics **2.4 hrs**

In this course, you will explore many Internet sites where you can search for family names. Youll learn where to look, who to contact and how to use research tools.

CETG 0208 – Introduction to Oracle **2.4 hrs**

Learn how to use Oracle database management to plan, organize, and manage your data. You will be introduced to Structured Query Language (SQL) and other tools.

CETG 0210 – GED Preparation **2.4 hrs**

If you are comfortable reading newspapers and you can add, subtract, multiply and divide without a calculator, this course will help you learn additional skills to pass the GED.

CETG 0211 – SAT/ACT Preparation 1 **2.4 hrs**

This course prepares you for the Verbal and Science Reasoning sections of the SAT/ACT tests.

CETG 0212 – SAT/ACT Preparation 2 **2.4 hrs**

In this course, we will analyze each of the quantitative test question areas on the ACT/SAT test. Topics include basic and advanced math, algebraic and geometry concepts.

CETG 0213 – Network+ Certification Prep **2.4 hrs**

This course will teach you what you need to know to pass the challenging Network+ certification exam and become a network technician. Also passes as an elective exam for MCSA Cert.

CETG 0220 – Introduction to Networking **2.4 hrs**

Learn who networks have become so important, how software and hardware makes networking possible, and how networks function. This is the foundation for CCNA Certification.

CETG 0225 – Computer Skills for Workplace **2.4 hrs**

Learn the fundamental computer skills you need to succeed in todays workplace. Youll discover practical applications for email, word processing, spreadsheets and databases.

CETG 0228 – Fundamentals of Tech Writing **2.4 hrs**

Discover the secrets of successful technical writers, including technical writing conventions, interviewing skills documentation management and how to get your first job.

CETG 0229 – The Keys to Effective Editing **2.4 hrs**

This course will teach you the fundamentals of top-notch editing for both fiction and non-fiction. If you already work as an editor, youll learn about recent advances.

CETG 0230 – Write Like a Pro **2.4 hrs**

Writing a successful novel, screenplay, business report or non-fiction book is easier when you work from a well thought out story outline. Youll learn story structure techniques.

CETG 0231 – Intro to Internet Writ. Market **2.4 hrs**

This course will help you discover a wide variety of new markets for your writing. If youre a professional writer or just dreaming of being one, this course is for you.

CETG 0238 – Leadership **2.4 hrs**

Gain the respect and admiration of others, enjoy success in your career, control your destiny. Use the principles of great leaders to achieve success in every aspect of your life.

CETG 0242 – Intermediate Networking **2.4 hrs**

Real-world applications and a full understanding of almost every aspect of networking technology, including virtual private networks, security, and Internet connectivity and then onto training for CCNA certification. Register at http://www.ed2go.com/saltlakecc

CETG 0244 – Secrets of Better Photography **2.4 hrs**

Basic technology that all cameras use, helpful information on exposure and lighting. Explore strategies for excellent photos in all types of situations.

CETG 0250 – Accounting Fundamentals **2.4 hrs**

This course will teach you the basics of double-entry bookkeeping, and how to analyze and record financial transactions and prepare various financial reports.

CETG 0251 – Effective Business Writing **2.4 hrs**

If you communicate with others in writing, this course will help you identify and eliminate problem areas, and learn the secrets to developing powerful written documents.

CETG 0256 – Professional Sales Skills **2.4 hrs**

If youve dreamed of becoming successful in sales this class is what you need. Youll learn how to turn prospects into buyers and how to provide excellent customer service.

CETG 0257 – Effective Selling **2.4 hrs**

The goal of Effective Selling is to help you discover how you can easily convert a potential customer into a long-term asset. Youll learn to lay the groundwork for repeat buyers

CETG 0263 – GRE Prep 1 Verbal/Analytical **2.4 hrs**

This course covers all the types of questions on the verbal and analytical test, and how to do your best on reading comprehension, analogies, sentence completion, and others.

CETG 0264 – GRE Prep 2 Quantitative **2.4 hrs**
This course features a math review and techniques for doing the quantitative comparison, discrete quantitative, and data interpretation question in test two.

CETG 0265 – GMAT Preparation **2.4 hrs**
This course will provide you with test-taking techniques and methods for improving your score $ saving time on the GMAT.

CETG 0267 – Business and Marketing Writing **2.4 hrs**
Write great marketing copy to improve your companys image and your chances of getting hired or promoted.

CETG 0270 – Drawing - Absolute Beginner **2.4 hrs**
Gain a solid foundation in drawing and become the artist youve always dreamed you could be!

CETG 0272 – Solvng Classrm Discipline Prob **2.4 hrs**
Veteran teacher reveals the secrets to an orderly classroom. A step-by-step approach to effective, positive discipline.

CETG 0273 – Intro to Veterinary Assisting **2.4 hrs**
Practicing veterinarian prepares you to work in a veterinary office or hospital.

CETG 0274 – Math Refresher **2.4 hrs**
Gain confidence in your basic math skills and start using math to your advantage.

CETG 0275 – Intro to C++ Programming **2.4 hrs**
Learn to program in C++, even if you have no prior programming experience.

CETG 0276 – Creating the Inclusive Classrm **2.4 hrs**
Get the training you need to reach the diverse mix of students you face everyday.

CETG 0278 – Beg Conversational French **2.4 hrs**
Discover how easy it can be to learn common words and phrases for both leisure and business.

CETG 0282 – Adv Grant Proposal Writing **2.4 hrs**
Gain a full understanding of the criteria founders use to determine whether your grant proposal gets funded or rejected.

CETG 0283 – Photograph People w/Dig Camera **2.4 hrs**
Expert shows you how to take beautiful pictures of adults, children, and babies.

CETG 0284 – Writterific2:Adv Creatvty Trng **2.4 hrs**
Increase your creativity - whether youre writing for personal satisfaction or to launch a career.

CETG 0288 – Teaching ESL/EFL Grammar **2.4 hrs**
Learn new methods for teaching English grammar that will both engage and challenge ESL/EFL students.

CETG 0289 – Teaching ESL/EFL Vocabulary **2.4 hrs**
Discover what makes a well-balanced vocabulary course when youre teaching ESL and how to plan one that truly meets your students needs.

CETG 0290 – Beg Guide to Getting Published **2.4 hrs**
Published writer shows you how to give yourself the credibility you need to get your books and articles published.

CETG 0292 – Personal Finance **2.4 hrs**
Protect your assets and discover how best to achieve all your financial goals.

CETG 0296 – Learn to Buy & Sell on EBay **2.4 hrs**
Auction pros teach you how to work from home or earn extra income by buying and selling goods on-line.

CETG 0299 – Merrill Ream Speed Reading **2.4 hrs**
Acclaimed speed reading expert teaches you how to save yourself time by reading faster with better comprehension.

CETG 0303 – Research Methods for Writers **2.4 hrs**
Learn the most efficient and effective methods to conduct research for any writing project.

CETG 0305 – Secrets of the Caterer **2.4 hrs**
Learn cooking and business secrets from a professional caterer.

CETG 0306 – Enhancing Lang Dev Childhood **2.4 hrs**
Enrich the lives of your young children by learning fun and natural ways to help them become proficient speakers and thinkers.

CETG 0307 – Real Estate Investing **2.4 hrs**
Build and protect your wealth by investing in real estate.

CETG 0308 – Intermediate Oracle **2.4 hrs**
Learn how to write powerful and flexible PL/SQL programs.

CETG 0309 – Handling Medical Emergencies **2.4 hrs**
Every second counts during a medical emergency. Learn how to respond if someone needs your help.

CETG 0311 – LSAT Preparation **2.4 hrs**
Learn about law school entrance procedures, developing analytical reasoning skills, and improving your test-taking skills (course 1 of 2).

CETG 0312 – LSAT Prep Part 2 **2.4 hrs**
Improve your reading comprehension and logical reasoning skills, and discover proven approaches for selecting correct exam answers (course 2 of 2).

CETG 0314 – Intro to Adobe Lightroom 4 **2.4 hrs**
Learn how Lightroom 4 can help you prepare, edit, and organize your photos quickly and effectively.

CETG 0316 – Interpersonal Communication **2.4 hrs**
Become aware of the conscious and unconscious codes of meaning we send when communicating with others.

CETG 0317 – Intro to Algebra **2.4 hrs**
Understand how algebra is relevant to almost every aspect of your daily life, and become skilled at solving a variety of algebraic problems.

CETG 0331 – Internet in the Classroom **2.4 hrs**
Discover how you can use the Internet to make teaching easier for you and more relevant to your students.

CETG 0334 – Wireless Networking **2.4 hrs**
Industry expert shows you how wireless networking works, as well as how to plan, deploy, and connect to wireless networks.

CETG 0337 – Intro to Journaling **2.4 hrs**
Discover how journaling can help you learn more about yourself.

CETG 0339 – Teaching Students with Autism **2.4 hrs**
Develop the skills to counter the difficulties associated with students who have autism spectrum disorders and learn creative strategies to help them succeed in the classroom.

CETG 0342 – Intro to PC Security **2.4 hrs**
Security expert teaches the fundamentals of PC and network security.

CETG 0344 – Singapore Mth Stgy:Model Draw **2.4 hrs**
Get the training you need to start teaching model drawing, the powerful Singapore Math Strategy.

CETG 0345 – Marketing Bus on the Internet **2.4 hrs**
E-commerce expert helps you develop an Internet marketing plan for your business.

CETG 0346 – Intro to PHP and MySQL **2.4 hrs**
Learn to build dynamic, data-driven Web site using two of the most popular technologies available: PHP and My SQL.

CETG 0349 – Music Made Easy **2.4 hrs**
Learn the fundamentals of music theory. Be able to read, write, and play simple music.

CETG 0350 – Accounting Fundamentals II **2.4 hrs**
Give yourself skills that are in high demand by exploring corporate accounting with a veteran instructor.

CETG 0351 – Writing for ESL **2.4 hrs**
Learn how to write in English more effectively to succeed in college and at work.

CETG 0352 – Speed Spanish II **2.4 hrs**
Clever follow-up to our popular Speed Spanish course. Several new recipes help you quickly build fluency.

CETG 0353 – Writing for Children **2.4 hrs**
Published childrens author shows you how to touch the hearts of children by creating books for them.

CETG 0354 – Beginning Writer's Workshop **2.4 hrs**
Get a taste of the writers llife and improve your writing skills in this introduction to writing creatively.

CETG 0355 – CompTIA Security+Certification **2.4 hrs**
Master the terms and concepts you need to pass the CompTIA Security+ exam and earn your Security+ certificate.

CETG 0357 – Keys to Successful Money Mgmt **2.4 hrs**
Certified financial planner show you how most wealthy people build their fortunes.

CETG 0364 – Intro to ASP.net **2.4 hrs**
Learn how to create powerful, interactive, community-based Web sites with ASP.NET.

CETG 0367 – Where Does All My Money Go? **2.4 hrs**
Learn how to get control of your money once and for all.

CETG 0368 – Worker's Compensation **2.4 hrs**
Gain essential skills and a solid understanding of one of the fastest-growing areas in law.

CETG 0369 – Real Estate Law **2.4 hrs**
Learn the basics of real estate law, including investing, title searching, and mortgages.

CETG 0372 – Intro to CSS and XHTML **2.4 hrs**
Learn to create state-of-the-art Web sites using modern CSS and XHTML techniques.

CETG 0373 – C# Programming For Beginner **2.4 hrs**
Learn the fundamentals of computer programming with the new C+ programming language.

CETG 0375 – Vet Asst:Canine Reproduction **2.4 hrs**
Practicing veterinarian teaches you to manage the entire canine breeding cycle, from assessing the health of parents to puppy care.

CETG 0377 – Instant Italian **2.4 hrs**
Learn Italian from the comfort of your home in this fun and enjoyable online course.

CETG 0379 – Practical Idea Adult ESL/EFL **2.4 hrs**
Learn ESL teaching strategies for fostering a more successful learning environment for your adult ESL/EFL students.

CETG 0382 – Get Grants! **2.4 hrs**
Learn how to develop successful, fundable grants from experts in the field.

CETG 0384 – Mystery Writing **2.4 hrs**
Using vivid examples from bestselling mystery novels, this course will teach you the techniques you need to become a successful author.

CETG 0385 – Advanced Fiction Writing **2.4 hrs**
Explore advanced fiction writing techniques with a published novelist.

CETG 0388 – Survival Kit for Teachers **2.4 hrs**
Veteran instructor shares the secrets for success in your first years of teaching.

CETG 0389 – Resp Intervntion:Reading Strat **2.4 hrs**
Learn response to intervention (RTI) strategies that ensure the struggling readers in your classroom get the help and education they need.

CETG 0390 – Travel Photography **2.4 hrs**
Learn the tricks and techniques digital photographers need to capture scenes from around the world and bring them home.

CETG 0393 – Intro Python 2.5 Programming **2.4 hrs**
Learn the fundamentals Python 2.5 programming with topics that include basic decisions and loops, advanced data structures, object-oriented programming, and graphical user interfaces.

CETG 0394 – Start Own Small Business **2.4 hrs**
Stop dreaming and learn how to start your own successful small business.

CETG 0396 – Writer's Guide to Desc Setting **2.4 hrs**
Develop your eye for detail and improve your writing with vivid descriptions, memorable settings, and believable characters.

CETG 0397 – Ready, Set Read! **2.4 hrs**
A learning specialist shows you how to raise a successful reader and writer.

CETG 0398 – Become an Optical Assistant **2.4 hrs**
Learn what it takes to become an optical assistant and discover why its one of todays most popular and fascinating career opportunities.

CETG 0399 – Intro to Teaching ESL/EFL **2.4 hrs**
Learn how to be an effective English language teacher from an expert in the field.

CETG 0401 – Intro to MS Outlook 2007 **2.4 hrs**
Become a productive and confident Microsoft Outlook 2007 user.

CETG 0402 – Skills/Making Great Decisions **2.4 hrs**
Learn how to make excellent everyday decisions from an experienced counselor and life coach.

CETG 0403 – Technology in the Classroom **2.4 hrs**
Learn the secrets of technology integration in the classroom so you can use tools such as wikis, podcasts, and blogs effectively.

CETG 0407 – Real Estate Investing II **2.4 hrs**
Discover the tools professional investors use to crunch numbers and analyze potential deals, and learn how to make better decisions with sophisticated, yet easy-to-use worksheets for doing your own financial anaylsis.

CETG 0408 – Bus Finance for Non-Fin Person **2.4 hrs**
Learn the basics of how a business operates, including how to develop successful business strategies and how to use financial statements to make better business decisions.

CETG 0410 – Prepare for the GED Math Test **2.4 hrs**
Master the skills required to successfully pass Test 5 in the GED test series.

CETG 0411 – Conversational Japanese **2.4 hrs**
Course makes it easy and enjoyable for beginners to master the essentials of the Japanese language.

CETG 0412 – Intro to Ruby Programming **2.4 hrs**
Learn how to create a dynamic Web blog using the Ruby on Rails programming environment and the Ruby programming language

CETG 0416 – What's New in MS 2007 **2.4 hrs**
Learn the most important new features of Microsoft Office Word, Excel, PowerPoint, and Access 2007.

CETG 0420 – Intro to MS Word 2007 **2.4 hrs**
Learn how to create an modify documents with the worlds most popular work processor.

CETG 0421 – Intermediate MS Word 2007 **2.4 hrs**
Learn advanced features of MS Word 2007 and create an index, a list of figures, table of contents, do desktop publishing, perform a mail merge, and us timesaving macros.

CETG 0422 – Intro to Adobe Acrobat 9 **2.4 hrs**
Learn how to bring together a wide range of content from dozens of programs that you can reuse and customize in Acrobat 9 Pro.

CETG 0423 – Intro to MS Excel 2007 **2.4 hrs**
Work with numbers? You need to know Excel. Learn the secrets of this powerful application.

CETG 0424 – Intermediate MS Excel 2007 **2.4 hrs**
Master advanced features of Microsoft Excel 2007, including charting and Pivot Tables, and discover how this powerful MS Office protrram can boost your productivity.

CETG 0425 – MS Access 2007 **2.4 hrs**
Learn how Microsofts powerful database can help you store and manage information youve collected about your business, home, or community.

CETG 0426 – HIPAA Compliance **2.4 hrs**
HIPAA Compliance - In this course you'll learn about the Administrative Simplification portion of HIPAA, ARRA, and HITECH.

CETG 0427 – Intro to MS Project 2007 **2.4 hrs**
Learn the important basic skills and concepts you need to take control of your Windows Visa PC.

CETG 0430 – Intro to MS Excel 2007 **2.4 hrs**
Discover the advanced features of MS Excel 2007 and find out everthing this poweful program can do for you.

CETG 0431 – Intro to Ajax Progamming **2.4 hrs**
Learn Ajax programming (HTML, JavaScript, XML, PHP, and more) to create Web applications with desktop-like performance.

CETG 0435 – Intro to MS Publisher 2007 **2.4 hrs**
Learn how to design, create, and publish a wide variety of stunning documents using Microsoft Publisher 2007.

CETG 0439 – Explore a Career in Med Coding **2.4 hrs**
Learn how to use the CPT manual and the ICD-9-CM to find medical codes for any disease, condition, treatment, or surgical procedure.

CETG 0442 – Advanced PC Security **2.4 hrs**
Use ethical hacking techniques to locate and close security holes in your own network.

CETG 0446 – Intermediate PHP & MySQL **2.4 hrs**
Learn how to create a dynamic, interactive online store using advanced PHP techniques and a MySQL database server.

CETG 0447 – Luscious, Low-Fat Quick Meals **2.4 hrs**
Join a registered dietitian and discover how easy it can be to prepare meals that are both delicious and nutritious!

CETG 0449 – Spanish-Medical Professionals **2.4 hrs**
Learn medical Spanish quickly and easily, honing your basic conversational skills and mastering key healthcare words and phrases.

CETG 0450 – Singapore Math No.Sense/Comp **2.4 hrs**
Singapores innovative and practical strategies for solving addition, subtraction, multiplication, and division problems

CETG 0452 – Speed Spanish III **2.4 hrs**
Master your ability to speak, understand, and read Spanish by taking the final installment in our unique three-part Speed-Spanish learning series.

CETG 0453 – Explora a Career a Pharm Tech **2.4 hrs**
Master the skills that will prepare you for an entry-level position as a pharmacy tech or clerk.

CETG 0457 – Quickbooks2010 for Contractors **2.4 hrs**
Learn how to quickly and efficiently gain control over the financial aspects of your business.

CETG 0458 – Intro to Programming **2.4 hrs**
Master basic programming concepts and get hands-on practice in writing applications containing GUIs, sound, and graphics.

CETG 0460 – Career as Admin Medical Asst **2.4 hrs**
Learn all about the in-demand career of medical information management as you explore the job of an administrative medical assistant.

CETG 0462 – MS PowerPoint 2007 **2.4 hrs**
Learn how to use Microsoft PowerPoint 2007 to create impressive, professional-looking slide presentations.

CETG 0464 – Intermediate Java Programming **2.4 hrs**
Deepen your understanding of the Java programming language, and start writing programs that are more sophisticated and professional.

CETG 0465 – Help for the Help Desk **2.4 hrs**
Become a customer helpdesk guru by learning how to handle any customer issue quickly and effectively.

CETG 0467 – Start Gift Basket Biz! **2.4 hrs**
Start Gift Basket Biz! - This course will tell you everything you need to know about starting a gift basket business and running it successfully.

CETG 0468 – Praxis 1 Preparation **2.4 hrs**
Develop the knowledge and skills you need to pass the Praxis I Exam as you review and prepare for the test.

CETG 0470 – Easy English 1 **2.4 hrs**
Learn the basic English skills you need for real-life activities including shopping, job-hunting, and handling medical emergencies.

CETG 0472 – Intermediate CSS & XHTML **2.4 hrs**
Take your CSS and XHTML skills to the next level and learn how to create professional-quality Web sites.

CETG 0473 – Intermediate C# Programming **2.4 hrs**
Learn to write Graphical User Interface programs in the C# Programming Language.

CETG 0475 – Veterinary Assistant III **2.4 hrs**
Veterinary Assistant III - Learn the practical skills you'll need to be a valuable veterinary assistant or educated pet owner.

CETG 0477 – Small Bus Mktg on Shoestring **2.4 hrs**
Small Bus Mktg on Shoestring - Learn how to use the same marketing tricks the big companies employ—without making a big dent in your wallet.

CETG 0480 – Intermediate MS Access **2.4 hrs**
Expand your Microsoft Access 2007 skills to build better, more user-friendly Access databases.

CETG 0484 – Writing & Selling Self/Help Bk **2.4 hrs**
Learn from a New York Times bestselling author the secrets for turning a book idea into a winning proposal to sell to publishing houses.

CETG 0485 – Expl a Career Interior Design **2.4 hrs**
This course will show you how to transform plain living spaces into beautiful and functional rooms.

CETG 0488 – Assisting Aging Parents **2.4 hrs**
This compassionate and comprehensive class will give you the tools, techniques, and insights to help you help your parents transition to their golden years.

CETG 0490 – Creating WordPress Web Sites **2.4 hrs**
Learn how to use WordPress to quickly and easily create attractive blogs and interactive Web sites.

CETG 0491 – Intro to Guitar **2.4 hrs**
Learn to play guitar, and become the musician you`ve always wanted to be!

CETG 0492 – Intro to Crystal Reports **2.4 hrs**
Learn how to use Crystal Reports to create attractive business documents that are easy to read and understand.

CETG 0494 – Start Arts & Crafts Business **2.4 hrs**
Learn how to start your own arts and crafts business from a professional artist.

CETG 0499 – Writing Your Adult Fiction **2.4 hrs**
Writing Your Adult Fiction - This course provides you with the recipe for creating your own successful young adult story and shows you how to get it published.

CETG 0500 – Advanced Web Pages **2.4 hrs**
Advanced Web Pages - Take your Web design skills to the next level! If you want to work as a freelance Web designer or build websites for your organization, this course will give you the advanced tools you need.

CETG 0501 – Intro to Outlook 2010 **2.4 hrs**
Intro to Outlook 2010 - Harness the power of Microsoft Outlook 2010, and you'll instantly enhance your efficiency and productivity.

CETG 0504 – Create Mobile Apps with HTML5 **2.4 hrs**
Learn how to imagine, design, build, and optimize a cross-platform mobile app using the very latest HTML5 standards.

CETG 0506 – Intro to Screenwriting **2.4 hrs**
Whether you want to write micro-budget indie films or Hollywood blockbusters, this course will teach you everything you need to know to ceate a script that can sell.

CETG 0507 – Intro Human Anatomy/Physiology **2.4 hrs**
This course explains of the nature of matter and reviews the principles of chemistry that are important to human physiology.

CETG 0510 – Mastering Public Speaking **2.4 hrs**
Learn how to speak confidently and persuasively to both large audiences and small groups.

CETG 0512 – Publish & Sell Your E-Books **2.4 hrs**
Become an overnight sensation by learning now to use free tools to turn your manuscript into a professionally published e-book ready for distribution.

CETG 0518 – Intro to Photoshop CS5 **2.4 hrs**
Learn Adobe Photoshop CS5, the world¿s best graphics program, to edit and process photos and create original images

CETG 0520 – Intro to MS Word 2010 **2.4 hrs**
Learn how to create and modify documents using Microsoft Word 2010, the worlds most popular word processing program.

CETG 0521 – Intermediate MS Word 2010 **2.4 hrs**
Learn Microsoft Word's more advanced features in Intermediate Word, which can make writing easier, faster, and more fun.

CETG 0522 – Intro to Adobe Acrobat X **2.4 hrs**
Learn how to use Adobe Acrobat X to create PDF files and take advantage of its many time-saving features, communication options, and forms.

CETG 0523 – Intro to MS Excel 2010 **2.4 hrs**
Become proficient in using MS Excel 2010 and discover dozens of shortcuts and tricks for setting up fully formatted worksheets quickly and efficiently.

CETG 0524 – Intermediate MS Excel 2010 **2.4 hrs**
Intermediate MS Excel 2010 - Take your Excel skills to the next level! Master charting, PivotTables, Slicers, Sparklines, and other advanced features of Microsoft Excel 2010.

CETG 0525 – Intro to MS Access 2010 **2.4 hrs**
Learn to build, edit, and maintain a database in Access 2010.

CETG 0526 – Mastering Your Digital SLR Cam **2.4 hrs**
Learn to break through the technology barrier so you can use your digital SLR camera to take beautiful photos.

CETG 0527 – Introduction to MS Project **2.4 hrs**
Learn how to effectively plan, implement, and control projects using Microsoft Project 2007.

CETG 0529 – Mac iPhone & iPad Programming **2.4 hrs**
Learn to use the free Xcode compiler and the Objective-C programming language to program your own apps that you can sell through Apple's App Store.

CETG 0530 – Advanced MS Excel 2010 **2.4 hrs**
Advanced MS Excel 2010 - In this practical and information-packed course, you'll see how to maximize MS Excel’s functions and capabilities.

CETG 0533 – Intro to Adobe Edge Animate **2.4 hrs**
With this new Adobe product, learn to create engaging content and graphics quickly and easily, relying on widely-accepted Web standards and requiring a minimal amount of code.

CETG 0534 – Quickbooks 2013 for Contractor **2.4 hrs**
You'll learn how to use the Premier Contractor Edition of QuickBooks 2013 to run your business more efficiently.

CETG 0536 – Biology Refresher **2.4 hrs**
This course will help you understand the structure and function of the human body at the level of your tiniest living components--your cells, and more.

CETG 0537 – Intro to Windows 7 **2.4 hrs**
Get up to speed quickly on Microsoft Windows 7 with this fun and easy hands-on course for beginners.

CETG 0539 – Intro to QuickBooks 2013 **2.4 hrs**
Learn how to quickly and efficiently gain control over the financial aspects of your small business with this powerful accounting software program.

CETG 0544 – Intro to Dreamweaver CS5 **2.4 hrs**
Learn to use Adobe Dreamweaver CS5 to design, create, and maintain user-friendly Web sites with professional Web pages.

CETG 0546 – Intermediate SQL **2.4 hrs**
Expand your knowledge of Structured Query Language (SQL), the industry standard database programming language.

CETG 0559 – Photoshop CS6/ Digital Photog **2.4 hrs**
Master techniques to make the most of your digital images and add a professional polish to your work.

CETG 0561 – Photoshop 9/Digital Photo **2.4 hrs**
Learn the secrets of Adobes Phototshop Elements 9 and bring out the best in your images.

CETG 0562 – Intro to PowrPoint 2010 **2.4 hrs**
Take your PowerPoint presentations from “so-so” to sensational! In these lessons, you’ll learn how to use Microsoft PowerPoint 2010 to create professional-quality slide presentations.

CETG 0564 – Intro to JavaScript **2.4 hrs**
Learn how to add interactivity, such as buttons, picture carousels and collapsible panels to your HTML and CSS websites with JavaScript programming skills.

CETG 0586 – Intro to VB 2008 **2.4 hrs**
Learn to create Windows applications using the popular and easy-to-master Visual Basic 2008.

CETG 0587 – Intermediate VB 2008 **2.4 hrs**
Gain in-demand VB skills writing sophicated Windows programs that access and modify business databases.

CETG 0590 – Creating WordPress WebSites II **2.4 hrs**
Discover how to create and maintain dynamic websites and blogs without technical coding.

CETG 0593 – Intro to Python 3 Programming **2.4 hrs**
Intro to Python 3 Programming - Enhance your résumé by adding Python to your programming skills! This course will give you the tools you need to use Python with skill and confidence.

CETG 0597 – Performing Payroll in QB 2013 **2.4 hrs**
Master efficient techniques for creating paychecks, paying liabilities for taxes, and generating dazzling reports quickly and easily.

CETG 0609 – Intro to InDesign CS5 **2.4 hrs**
You'll get hands-on desktop publishing training and learn how to use InDesign to design and create professional-quality letterhead, business cards, brochures, and more.

CETG 0614 – Intro to Illustrator CS5 **2.4 hrs**
You will learn how to create animated, interactive movies in Adobe Flash CS5.

CETG 0618 – Intro to Photoshop CS6 **2.4 hrs**
Learn how to use Photoshop CS6, the world's best graphics program for photographers, to edit photos and create original images.

CETG 0637 – Intro to Windows 8 **2.4 hrs**
Learn the basics of Windows 8, which gives you an efficient way to manage all the apps, programs, files, and folders you use regularly for both work and fun.

CETG 0638 – Photograph Nature w/Dig Camera **2.4 hrs**
Learn about the many aspects of outdoor photography as well as how to master your digital camera's controls and features.

CETG 0644 – Singapore Math Strat: Gr 6-9 **2.4 hrs**
In this course, you'll master model drawing, a revolutionary technique for teaching problem-solving to middle school math students.

CETG 0645 – Intro to Dreamweaver CS6 **2.4 hrs**
Learn how to use Dreamweaver's intuitive tool set to structure text, and investigate the myriad formatting options CSS provides.

CETG 0661 – Photoshop Elements 10 **2.4 hrs**
Learn the secrets of Adobe Photoshop Elements 10 and bring out the best in your images.

CETG 0714 – Intro to Illustrator CS6 **2.4 hrs**
Learn how to use Adobe Illustrator CS6 with the power to design, draw, and color images quickly and easily.

CETG 0718 – Intermediate Photoshop CS6 **2.4 hrs**

CETG 0800 – Admin Medical Assistant **0 hrs**
Admin Medical Assistant with Billing, Coding and Term

CETG 0801 – Admin Med Spec/Med Bill & Code **0 hrs**
This program offers you the training you need to become an Administrative Medical Specialist (AMS), a medical receptionist, a scheduler, an insurance specialist, or a diagnostic or procedural coder.

CETG 0802 – Med Billing,Coding&Terminology **0 hrs**
This course is designed to prepare you for a position as a medical coding and billing professional.

CETG 0804 – Med Transcription+Terminology **0 hrs**
Gain the ability to transcribe medical reports and learn the skills you need to obtain an entry-level position as a medical transcriptionist.

CETG 0805 – Medical Transcription **0 hrs**
Gain the skills to transcribe recordings and create medical reports.

CETG 0806 – Medical Terminology **0 hrs**
This is a course for client employees to gain a better understanding of medical terminology.

CETG 0807 – ICD-10 Medical Coding **0 hrs**
The ICD-10 Medical Coding Online Training Program will teach you how to prepare for and implement the massive changes to the existing coding system.

CETG 0809 – Advnced Hosp Coding & CCS Prep **0 hrs**
The Advanced Hospital Medical Coding Online Program and CCS Test Preparation Training Program will prepare you to take the American Health Information Management Associations (AHIMA) official certification exam to become a Certified Coding Specialist (CCS).

CETG 0810 – Admin Dental Assistant **0 hrs**
Youll learn about patient care, as well as how to assist with dental administrative duties.

CETG 0812 – Prsonal Trng/Exrcise for Adult **0 hrs**
Youll learn to work with seniors and older adults in the health and fitness industry and design specialized exercise and wellness programs for older adult clients.

CETG 0822 – Microsoft Off 2010 Master Cert **0 hrs**
Learn basic to advanced skills in Microsoft Word, Excel, PowerPoint, and Outlook 2010 while you prepare for Microsoft Office Specialist (MOS) certification.

CETG 0825 – Microsoft Excel 2010 Cert Tng **0 hrs**
This course will help you learn the Microsoft Excel skills you need to be a valuable asset in the workplace and prepare you to earn certification.

CETG 0828 – Microsoft Access 2010 Cert Tra **0 hrs**
Participate in the Microsoft Access 2010 course to improve your level of knowledge with Microsoft Access functions, while you prepare to take the Microsoft Certification Exam.

CETG 0829 – MS SharePoint 2010 Cert Train **0 hrs**
The Technical Writing Online Training Program is designed for anyone who wishes to develop their technical writing abilities to a professional level.

CETG 0830 – CompTIA A+ Certification **0 hrs**
This program will prepare you for CompTIA A+ certification.

CETG 0837 – MS Cert. IT Pro: MCITP **0 hrs**
This program will prepare you to administer and manage Windows 2008 Networks and to take the Microsoft 70-640, 70-642 and 70-646 certification exams.

CETG 0840 – Web Design Certificate **0 hrs**
Learn how to develop the visual graphic and information design skills required to create compelling Web sites, Adobe Photoshop, Adobe Dreamweaver, Fireworks, and Flash.

CETG 0846 – Multimedia Arts Certificate **0 hrs**
The Multimedia Design program will teach you proficiency in the core tools for interactive development: Adobe Photoshop, Flash and After Effects, and you will learn to shoot and edit digital video.

CETG 0851 – Project Mgmt/ MS Project 2007 **0 hrs**
Learn the basics of project management and master one of the most popular project management scheduling software products available today.

CETG 0852 – Project Mgmt W Ms Project 2010 **0 hrs**

CETG 0853 – Project Management **0 hrs**
Master the skills you need to get started in project management or take your career to the next level.

CETG 0854 – Six Sigma Black Belt **0 hrs**
Learn the appropriate tools and concepts at each stage of project deployment.

CETG 0855 – Six Sigma Green Belt **0 hrs**
The Six Sigma Green Belt Online Training Program provides you with an overview of the Six Sigma concepts and tools,

CETG 0859 – Freight Broker/ Agent Training **0 hrs**
Freight Broker/ Agent Training - From licensing to operations, to sales and marketing, you'll learn the basics of how to run a domestic freight brokerage or agency in the United States.

CETG 0860 – Technical Writing **0 hrs**
The Technical Writing Online Training Program is designed for anyone who wishes to develop their technical writing abilities to a professional level.

CETG 0861 – Prof Bookkeep Quickbooks 2010 **0 hrs**
Prepare for a career in the high-demand field of bookkeeping and accounting as you master QuickBooks 2010—the leading financial software tool for small businesses.

CETG 0864 – Payroll Practice & Management **0 hrs**
Get the training to help prepare you for the Certified Payroll Professional (CPP) test given by the American Payroll Association.

CETG 0870 – Digital Arts Certificate **0 hrs**
This certificate program will help you develop technical skills and creative artistry in digital imaging, illustration, and photography.

CETG 0872 – Entrepreneurship:Business Mgmt **0 hrs**
You'll learn the keys to business planning, communication skills, marketing, and management.

CETG 0883 – Webmaster **0 hrs**
This Webmaster Online Training Program will prepare you for a career designing, developing, and maintaining Web sites.

CETG 0900 – AutoCAD 2011 w/AutoCAD 3D **0 hrs**
Master basic and advanced design skills as you gain hands-on practice in using the 2D commands and 3D modeling tools in AutoCAD 2011.

CETR 0002 – UDOT Basics of Design II **0 hrs**

Use the most up-to-date Project Design Criteria form to identify UDOT standards for design speed, lane width, shoulder width, horizontal alignment, vertical alignment, grades, stopping sight distance, cross slopes, super elevation, structural capacity, bridge width, vertical clearance, and lateral offset to obstruction.

CETR 0003 – UDOT Structures TEP Lev 2 **0 hrs**

Basic structure types, components and terminology.

CETR 0006 – UDOT OMS TEP Level 3 **0 hrs**

Basic of MMS. MMS is used for reporting cost associated with maintenance activities.

CETR 0010 – UDOT Environmental TEP Lev 1 **0 hrs**

Introduce you to environmental issues and how they relate to UDOT construction and maintenance projects. You will learn about UDOTs environmental study process, required permits, clearances, basic principles of erosion and sediement control.

CETR 0013 – UDOT Materials I TEP Lev 1 **0 hrs**

Theory of design and introduction to pavement and materials.

CETR 0015 – UDOT Materials II **0 hrs**

Know where to find applicable reference standards; become familiar with Quality Assurance Concepts. Develop a background in measurements and calculations. Understand field testing techniques. Focus on concrete testing.

CETR 0016 – UDOT Plan Reading TEP Lev 1 **0 hrs**

Introduce basic UDOT plan reading including, engineering views, section views, standard drawings, special provisions, coordinate systems, stationing, horizontal and vertical curves, drainage features, embankments, and signing.

CETR 0017 – UDOT Plan Reading TEP 2 **0 hrs**

Builds on plan reading concepts learned in Plan reading I. Topics include: environmental documents, right-of-way, retaining walls, bridge structures, highway lighting, traffic signals and control plans.

CETR 0018 – UTA - ITCLI007 Wlding Intro **0 hrs**

Distinguish between different electrodes and wires, setup and operation of LN-25 wire feed machine. Basic safety and setup for SMAW and FCAW and use of welding machine in different positions.

CETR 0019 – UTA-Basic Welding/Metal Work **0 hrs**

Perform basic ox-acetylene cutting, common welding, brazing and soldering operations. Select and use the proper electrodes and weld in flat, horizontal, vertical and overhead positions. Fabricating components from channel angles and tubing. Blueprint reading.

CETR 0020 – Basic Welding **0 hrs**

This course is designed to help students perform basic oxy-acetylene cutting, common welding and brazing operations. Incorporate classroom training to actual work.

CETR 0021 – UDOT MMQA TEP Lev 3 **0 hrs**

How to properly collect data for the MMQA system.

CETR 0026 – UDOT Office Inspec TEP Lev 4 **0 hrs**

Students should be familiar with documentation terms and practices as they apply to construction of UDOT projects. A hands-on approach from the beginning of a project to the end.

CETR 0030 – UDOT Roadway Advanced III **0 hrs**

Alternatives Roadway Development Process, provides an overview of the MVC alternative development process.

CETR 0034 – UDOT Signal Int Lighting III **0 hrs**

Alternatives Signal Lighting Development Process, provides an overview of the MVC alternatives development process.

CETR 0037 – UDOT Traffic/Safety II **0 hrs**

Alternatives Traffic/Safety Development Process, provides an overview of the MVC alternatives development process.

CETR 0039 – UDOT Equip Mgt TEP Lev 4 **0 hrs**

Basics of how UDOT keeps track of equipment uses.

CETR 0040 – SLC Airprt Authrty Electrical **0 hrs**

Basic cognitive and psychomotor skills needed to troubleshoot and repair motors, motor controls, and electrical systems. Terminology to electrical wiring, safety devices.

CETR 0041 – SLC Airprt PLC 500 Maint **3.2 hrs**

A programmable logic controller (PLC) is a specialized computer used to control machines and processes. It uses a programmable memory to store instructions and execute specific functions that include on/off control timing, counting, sequencing, arithmetic and data handling.

CETR 0042 – SLC Airprt 10 Wheel Dump Truck **0 hrs**

Train and upgrade the skills of employees for the safe operation of city equipment. A certified trainer will provide training and instruction in the classroom and hands on training.

CETR 0043 – SLC Airport Diversity **0 hrs**

Open discussions about diversity and what diversity means to us as individuals, as communities and as a nation.

CETR 0044 – SL Airprt Transportation Truck **0 hrs**

Train and upgrade the skills of employees for the safe operation of city equipment. Pre-trip and post-trip inspections, safety in and around the equipment, safe operation of the Transport truck, and understanding the Federal Motor Carrier Safety Admin Cargo rules.

CETR 0045 – SLC Airport Defensive Driving **0 hrs**

Attention discipline-exercises on driving around and hazards to look for. Tire blow out recovery from cars to 18 wheel vehicles. Skid control from front wheel to four-wheel drive vehicles.

CETR 0046 – SLC Airport Backhoe Training **0 hrs**

Evaluation to determine current knowledge and skill level. Classroom on emphasis backhoe safety principal. On-site hands on training, and post training evaluation.

CETR 0052 – UDOT - English II **0 hrs**

Course emphasizes writing skill development through practice writing, with special emphasis on areas such as planning writing, standard abbreviations, footnote techniques, and correction of writing through group analysis.

CETR 0053 – UDOT English Level III **0 hrs**

Emphasis in on developing writing skills through using techniques that generate ideas, identify audiences and purposes, construct arguments, and state problems. Review spelling, punctuation, and usage skills.

CETR 0054 – UDOT English IV **0 hrs**

Introduce the role of writing and communication in the workplace and daily life. Focus on developing skills in critical thinking, perceptive reading, and writing with purpose, unity and coherence.

CETR 0061 – UDOT - Basic Math **0 hrs**

Developmental course in math, designed to help students acquired or renew competency in calculation involving whole numbers, place value and rounding , exponents, order of operations, fractions, decimals, ratio and proportion, percents and basic business math.

CETR 0062 – UDOT Math Level II **0 hrs**
Emphasis on factoring and solving linear quadratic equations graphing linear equations, and applied problems and geometry applications.

CETR 0063 – UDOT Math III **0 hrs**
Introduce the basics and applications of geometry in preparation for surveying/statics courses. Emphasis on parallels, congruent triangles, circles, trigonometric laws, polygons, surface areas, volumes and vectors.

CETR 0064 – UDOT Math IV **0 hrs**
Introduce trigonometric functions and relations, identifies solutions of right angles, oblique triangles, trigonometric equations, and vectors.

CETR 0066 – UDOT Math VI **0 hrs**
Covers basic hands-on approach to basic keystrokes of the HP 48-GX graphing calculator that corresponds with the algebraic concepts introduced in the math classes.

CETR 0071 – UDOT Supervisory Management **0 hrs**
Management course designed to help managers learn leadership, communication, and performance appraisal skills. Effective communication in a diverse work environment, and conflict resolution.

CETR 0081 – UDOT Office Insp/Doc TEP Lev 1 **0 hrs**
Introduce office administration procedures including filing, payroll, contractors payroll, PR-1391, vehicle reports, training reports, ticket adding, interviewing, and truck overweighs.

CETR 0082 – UDOT Office Inspec TEP Lev 2 **0 hrs**
Introduce correspondence, change orders, subcontract agreements, stockpile requests and payments, and review procedures from inspectors manual.

CETR 0083 – UDOT Office Inspec TEP Lev 3 **0 hrs**
Introduces DBE specifications, interviews, bulletin boards, Affirmative Action Plan, and partial estimates, reviews procedures from the inspectors manual.

CETR 0084 – UDOT Office Inspection IV **0 hrs**
The process of documenting the construction of a UDOT project, covering the paperwork involved in constructing, finishing, accepiting and closing out a project for final payment to contractor.

CETR 0091 – UDOT Surveying I **0 hrs**
Covers survey skills including measurements of horizontal distance, leveling, and measurements of angles.

CETR 0092 – UDOT Surveying TEP Lev 2 **0 hrs**
Covers surveying techniques including, field operations with the Transit or Theodolite, line directions, traverse surveys and computations, and horizontal control networks.

CETR 0093 – UDOT Surveying TEP Lev 3 **0 hrs**
Covers surveying techniques including, US public land survey state plane coordinates, horizontal and vertical curves, and topographical surveys.

CETR 0094 – UDOT Surveying TEP IV **0 hrs**
Introduces basic surface preparation or refinishing, proper utilization of refinishing products and equipments, spray and blending techniques, and the proper mixing ratios for refinishing products.

CETR 0099 – UDOT-Basics Pub Presentations **0 hrs**
To teach UDOT engineers the basics of public presentations to community and academic groups. Speech anxiety, audience analysis, organization visual aids, powerpoint and delivery.

CETR 0100 – UDOT Word TEP Level 1 **0 hrs**
Covers the basic skills used as you create and edit documents in Microsoft Word.

CETR 0101 – UDOT Word TEP Level 2 **0 hrs**
Covers the basic skills used as you create and edit documents in Microsoft Word.

CETR 0102 – UDOT Excel TEP Level 1 **0 hrs**
Covers basic skills used as you create and edit documents in Microsoft Excel.

CETR 0103 – UDOT Excel TEP Level 2 **0 hrs**
Covers the basic skills uses as you create and edit documents in Microsoft Excel.

CETR 0104 – UDOT PowerPoint TEP Lev 4 **0 hrs**
MicroSoft PowerPoint will introduce the basic skills necessary for creating presentations.

CETR 0105 – UDOT-CEMT Contract Admin **0 hrs**
Contract administration and resident engineer duties and authority. This class is designed to give a greater understanding of the engineers daily duties and to prepare to better administer a construction project for UDOT.

CETR 0106 – UDOT-CEMT Utilities & Railroad **0 hrs**
This class is designed to give an overview of the many things that are expected of a project manager or engineer in working with specifications, state, federal laws, requirements and documentations.

CETR 0107 – UDOT-CEMT Negotiation/Traffic **0 hrs**
Negotiation and traffic control.

CETR 0108 – UDOT-CEMT Materials/Closeout **0 hrs**
This class is designed to give an overview of the many things that are expected of a project manager or engineer in the materials and project closeout areas.

CETR 0109 – UDOT-CEMT PDBS/Prjct Estimates **0 hrs**
This class is designed to provide insight into innovative contracting methods and the advantage of using different methods to deliver projects more efficiently and in less time.

CETR 0110 – UDOT-CEMT Environmental Resrce **0 hrs**
This class is designed to give an overview of the many things are are expected of a project manager or engineer in the environmental process and resource that impact those areas.

CETR 0111 – UDOT-CEMT Civil Rights **0 hrs**
This class is designed to give an overview of external civil rights issues with detailed information and guidance to assist contractors, consultants, and subcontractors.

CETR 0112 – KUC Welding Skill Test 1 **0 hrs**
New Hires- Kennecott Utah Copper- Welding Skill KUC Test 1. Welding Skill 1- Acceptance Standard: AWS C4.1-77, Sample 2Achieve the proper torch flame for cutting; Cut 1¿ Diameter circle; Cut 45 degree bevel; Make straight Cuts; Dimensional Inspection. (1.5 hrs (1hr with ½ hr pre-safety required)

CETR 0113 – KUC Welding Skill Test 2 **0 hrs**
New Hires- Kennecott Utah Copper- Welding Skill KUC Test 2. Welding Skill 2- Acceptance Standard: AWS D1.1/D1.1M Current edition. Visual Examination before back gouging; Visual Examination after back gouging; Visual Examination at completion of all welding; Root Bend: Face Bend (3hrs (2.5 hr with ½ hr pre-safety required)

CETR 0114 – KUC Welding Skill Test 3 **0 hrs**
New Hires- Kennecott Utah Copper- Welding Skill KUC Test 3. Welding Skill 3- Acceptance Standard: AWS D1.1/D1.1M Current edition. Visual Examination ; Root Bend: Face Bend (1.5 hrs (1 hr with ½ hr pre-safety required)only by appointment.

CETR 0115 – KUC Welding Skill Test 4 **0 hrs**
New Hires- Kennecott Utah Copper- Welding Skill KUC Test 4. Welding Skill 4- Acceptance Standard: AWS D1.1/D1.1M Current edition. Visual Examination ; Radiographic Examination. (3 hrs (2.5 hrs with ½ pre-safety required) only by appointment.

CETR 0203 – UTA Basic Refinishing **0 hrs**

The goal of this course is to introduce entry-level technicians to the painting and sheet metal process, and build the critical skills and safety needed for a career in bus body repair.

CETR 0204 – UTA Machine Operation **0 hrs**

The basic goal of the project is to provide an improved public transportation system in a cost-effective, environmentally sensitive and socially responsible “design to cost” philosophy.

CETR 0205 – UTA 5 Pilars Successful Teams **0 hrs**

The Five Pillars of Successful Teams-UTA. This is a hands on, participatory to help ongoing efforts to build and improve their team. Team leadership styles, real team communication, building camaraderie, the dynamics of synergy, the heard of any successful team.

CETR 0300 – UTA Damage Analysis **0 hrs**

Introduction to the design criteria and standards to be used for the commuter rail system

CETR 0301 – UTA HVAC (80 hours) **0 hrs**

Basic electrical training program is designed for UTA apprentices. By combining theory and practical shop experience, the student will develop the basic cognitive and psychomotor skills needed to troubleshoot and repair.

CETR 0302 – UTA HVAC Heating 1 **0 hrs**

UTA training for safety, refrigerant certification, controls components, PM troubleshooting, and tools and equipment.

CETR 0400 – ES60 UPRR Basic Welding **0 hrs**

Welding safety, setup and operate Oxy-fuel cutting and welding equipment, shielded metal ARC welding (SMAW) equipment.

CETR 0401 – ES20 UPRR Adv Brdge WireFd Wld **0 hrs**

Welding safety, setup and operate, review oxy-fuel safety. Identify various joint designs, qualify tests in vertical up (3G) and overhead (4G) position, feed welding. GMAW and FCAW processes using 068-232 wire.

CETR 0402 – ESAW UPRR Adv Welding **0 hrs**

Welding safety, Oxy-fuel safety quick review. Equipment Adv. Shielded Metal Arc Welding, filler metals, Joint Design, Welding symbols and quality control. Welding test vertical up (3G) and overhead (4G) positions.

CETR 0411 – ES20 UPRR Adv Brdge Stick Wld **0 hrs**

Welding safety, setup and operate, review, oxy-fuel safety, identify various joint designs, qualify test in vertical up (3G) and overhead (4G) position, feed welding GMAW and FCAW processes using 068-232 wire will be thicker on the material. SMAW (Shield Metal Arch Welding) will be used. Advanced Bridge Stick Welding.

CETR 0600 – Conflict Management Skills **0 hrs**

This workshop explores the five models people use in dealing with conflict and how to determine which is best. Attendees learn how to diffuse negative situations and promote harmony. It includes excerises designed to help participants constructively engage with and manage conflict rather than avoid it.

CETR 0601 – Help Employees Embrace Change **0 hrs**

Participants learn about the emotional impact that both small and large change has on an employee. Session also focuses on the strategies necessary for helping employees embrace and positively promote change.

CETR 0602 – Communicating for Results **0 hrs**

Communicating for results gives the student the opportunity to explore how communication styles effect overall performance. It improves both verbal and non-verbal communication skills to become more effective in groups or individual communication settings.

CETR 0603 – Sales for Non-Sales Managers **0 hrs**

This valuable workshop focuses on various sales techniques and how they are succesfully used by non-sales professionals.

CETR 0604 – Superior Sale Performance **0 hrs**

This valuable workshop focuses on various sales techniques and how they are successfully used by non-sales professionals.

CETR 0605 – Peer Today, Boss Tomorrow **0 hrs**

Without adequate preparation for the transition from peer to boss, many new managers struggle to reach thier full potential. Outlines four strategies to help new managers make successful transitions. Helps new managers address their evolving relationships with colleagues. A vision point seminar.

CETR 0606 – Secrets of Leadershp **0 hrs**

This insightful and engaging workshop will benefit and motivate managers on all levels. They will understand and have embraced eight often overlooked aspects of leadership.

CETR 0607 – Coaching & Team Bldg for Mgrs **0 hrs**

A sports coach cannot win without a team and neither can a business. Learn how to empower a team, give clear directions and set goals. How to handle conflict in a team and build unity. Understand feedback and successful communication when leading or coaching a team.

CETR 0608 – Keep Customers in a Tough Econ **0 hrs**

This workshop focuses on customer retention and relationship management. Overcoming short term objections for long term buying habits. Dos and Donts of customer service. Involving your customers in making the company better. Defining Key moments in customer behavior.

CETR 0609 – Topics for Women in Leadership **0 hrs**

This leadership development workshop is designed for women in business. Covers topics such as how you can motivate, engage and inspire individuals and teams, lead with self-confidence, and develop strong communication skills. Network with professionals and managers and discuss issues and perceptions unique to women in leadership.

CETR 0610 – Customer Service Phone Skills **0 hrs**

This workshop teaches the key skills necessary to provide the best customer service over the phone. Great for both inbound and outbound call center agents, as well as sales professional that do business over the phone.

CETR 0611 – Make Money in the Green Sector **0 hrs**

What is a Green industry or occupation? There are many aspects of work that could be considered green, such as new materials, methods, products and services. This workshop gives an overview of the emerging industry and where money can be made.

CETR 0612 – Successful Time Mgt Strategies **0 hrs**

Workshop goes beyond the basic Franklin planner training and discusses time wasters, time strategies, and time creation. Great for the busy executive.

CETR 0613 – Turn Social Media into Sales **0 hrs**

Learn how to take advantage of the power of social media to build your business. Hands on workshop in a computer lab that focuses on the marketing and sales strategies involiving Twitter, LinkedIn and Facebook.

CETR 0614 – Lean Office Boot Camp **0 hrs**

Learn how to apply lean operating principles to the office enviroment. Improve productivity and eliminate waste in administrative and other non-manufacturing elements of your business.

CETR 0615 – Human Resource Leadership **0 hrs**
HR Leaders need a special set of management and people skills. Learn leadership skills that will quickly improve your performance and those you supervise.

CETR 0616 – Guerilla Mrktng in Todays Econ **0 hrs**
Marketing does not have to be complicated or expensive. Tap into marketing that works. Learn how to make a plan and avoid analysis paralysis.

CETR 0617 – Lean Sigma Champion **0 hrs**
Overview of Lean principles including the eight forms of waste and the cultural change that must take place. Discuss the role of management in lean. Discuss if Lean is right for your company.

CETR 0618 – Bus Etiquette for Digital Age **0 hrs**
Students will learn concepts of etiquette through different generations, and find out why yesterdays rules are no longer effective.

CETR 0619 – Five Pillars Successful Teams **0 hrs**
Workshops will guide leaders through the basic principles that go into making a successful team.

CETR 0620 – Beyond Time Management **0 hrs**
Students will learn concepts of time management.

CETR 0621 – Stay Positive while Stressed **0 hrs**
Students will learn how to stay positive while stressed.

CETR 0622 – Sales for a Non-Sales Prof **0 hrs**
Students will learn concepts of successful sales techniques.

CETR 0623 – Power Writing for Today **0 hrs**
Students will learn how to use techniques on infusing power into different types of writing.

CETR 0624 – Lang of Whole Brain Leadership **0 hrs**
Students will learn how to send concrete messages.

CETR 0625 – Customer Service and Beyond **0 hrs**
Students will learn how to use techniques to focus on customer¿s needs.

CETR 0626 – IPC-J-STD-001: L3 Comm **0 hrs**
Consensus standard for soldering materials, processes using lead-tin and lead-free solder.

CETR 0627 – IPC-A-620E: L3 Comm **0 hrs**
Consensus standard for requirements and acceptance for cable and wire harness assemblies.

CETR 0628 – IPC-A-610E: L3 Comm **0 hrs**
Enables students to make correct/accept/reject decisions for appropriate class(es) of electronic assemblies.

CETR 0629 – Taking the HEAT **0 hrs**
Students will learn a set of best practices for taking the heat to turn difficult customer situations into positive interactions.

CETR 0630 – Mastering Police Report Writng **0 hrs**
Course will teach skills to effectively write informative police reports.

CETR 0700 – BMLI-Setting Performance Expec **0 hrs**
This course helps leaders drive performance and accountability by helping people understand what is expected of them and gaining their commitment to achieving it.

CETR 0701 – BMLI-Coaching for Improvement **0 hrs**
Helps leaders conduct effective discussions and provide the feedback and ongoing support people need to improve performance.

CETR 0702 – BMLI-Coaching For Success **0 hrs**
Develops leaders who help people achieve goals and avoid problems, a positive experience for themselves and those being coached.

CETR 0703 – BMLI-Delegating for Results **0 hrs**
In this course, leaders overcome their hesitation to delegate by learning skills for successfully matching people with responsibility and authority.

CETR 0704 – BMLI-Essentials Of Leadership **0 hrs**
Teaches leaders how to get results through people.

CETR 0705 – BMLI- Starting as a New Leader **0 hrs**
Arms new leaders with the knowledge and skills they need to confront the challenges associated with getting their footing and results as a new leader more quickly.

CETR 0706 – BMLI-Leading Change **0 hrs**
This course focuses on leaders crucial role in initiating change in the workplace.

CETR 0707 – BMLI-Lead High Performing Team **0 hrs**
This course provides team leaders with the tools and skills to perform three primary responsibilities-diagnose, coach and reinforce.

CETR 0708 – Resolving Conflict for Leaders **0 hrs**
This course teaches leaders how to recognize that a conflict is escalating and minimize damage by using the most appropriate resolution tactic.

CETR 0709 – BMLI-Lean Six Sigma Green Belt **0 hrs**
Learn how to identify and implement changes in operation aimed at reducing waste, cost, time and variation.

CETR 0710 – BMLI-Lean Six Sigma Black Belt **0 hrs**
Learn how to lead teams for change and improvement.

CETR 0711 – Project Mngmnt Prof Exam Prep **0 hrs**
Prepares students to successfully pass the PMP exam.

CETR 0712 – BMLI-Developing Others **0 hrs**
Course provides leaders, coaches and mentors with a practical process and the skills necessary to develop talent.

CETR 0713 – BMLI-Navigating Beynd Conflict **0 hrs**
New course, allows leaders to resolves issues within the workplace and then have the necessary tools to move past them.

CETR 0714 – Buildng an Enviroment of Trust **0 hrs**
New course, allows leaders to creative an environment of trust with their employees as well as between employees.

CETR 0715 – Lean 101 **0 hrs**
Lean 101 provides theory tools and an overview of lean tools such as Value Stream, Mapping, Kaisen, etc. Students will learn and understand the meaning of 'waste' and how to eliminate it from the working environment.

CETR 0716 – Business Writing for Mangers **0 hrs**
Business Writing for Professionals: Provides techniques that apply to any business writing situation.

CETR 0717 – BMLI-Intro to Natural Gas Meas **0 hrs**

Intro to Natural Gas Measurement is a pilot course utilizing curriculum developed by the Gas Measurement Training Council. It will provide an overview of the natural gas measurement and transmission industry and the basic skillsets necessary to work as a field technician. Topics will include gas properties, fluid mechanics, gas flow measurement, gas meters, and industry standard safety guidelines.

CETR 0718 – BMLI-Project Management 101 **0 hrs**

Project Management 101 provides students with an overall understanding of project management by focusing on the basic concepts, definitions, tools, strategies, processes, and phases associated with project management. Students will be able to adapt the generalized knowledge and principles offered to fit within their unique and specific workplace project needs.

CETR 0719 – BMLI-Quality 101 **0 hrs**

Quality 101 is designed to meet organizational needs for foundational quality knowledge and competence. This course satisfies 6.2 human resource requirements and provides documentation for ISO 9001:2008, TL9000, TS 16949 and AS9000 standards that cover competence, awareness and training. Helps prepare individuals for the Quality Improvement Associate (QIA) certified exam. Introduces quality concepts and terminology to non-quality practitioners involved in Lean Six Sigma initiatives.

CETR 0720 – Build & Deliver Effect Trng **0 hrs**

This course focuses on how to build and deliver meaningful training courses and programs within an organization. During this eight-hour session, effective training principles will be covered.

CETR 0721 – BMLI-Customer Service Excellen **0 hrs**

This foundational course provides individuals with a powerful set of interaction skills that enables them to communicate more effectively with colleagues and customers, and in the process, build trust, strengthen partnerships, and achieve desired results.

CETR 0722 – Personal Empowerment **0 hrs**

This course seeks to change the mindset that empowerment is something that is given. It helps employees see that they can and should look for improvement opportunities. It helps leaders to make their jobs more interesting, motivating, and rewarding and makes them a more valuable asset to their organization.

CETR 0723 – Taking Action to Solve Problem **0 hrs**

This course provides leaders, coaches, and mentors with the skills and the practical process necessary to develop talent. Participants will examine the leader's role before, during, and after the development plan.

CETR 0724 – Lean Six Sigma Yellow Belt **0 hrs**

Lean Six Sigma Yellow Belt teaches Lean Six Sigma fundamentals, its application, and methods for improving participation of project team members. Yellow Belt team members form an important link in a mature Lean Six Sigma deployment.

CETR 0802 – IHC-Workplace ESL Level 1: IMC **0 hrs**

Students will learn the basics of English language while enhancing their communication skills in the workplace.

CETR 0803 – IHC-Workplace ESL Level :: IMC **0 hrs**

Students will learn the basics of English language while enhancing their communication skills in the workplace.

CETR 0804 – IHC-Workplace ESL Level III **0 hrs**

CEWB 0001 – WNET **0 hrs**

Womens Network for Entrepreneurial training. Mentoring and training initiative of the US SBA, designed to train participants in professional skills that promote positive and profitable business development.

CEWB 0013 – Fast Trac-First Step **0 hrs**

Communicating the business concept, gathering information for feasibility, product and services.

CEWB 0100 – WBI-Counseling **0 hrs**

One on one counseling with small business owners.

CHE 2000 – Cooperative Education In Chemical Engineering **1-2 cr**

Prereq: Sophomore standing, minimum 2.0 GPA, and instructor approval. This is a supervised work experience in a business, industrial, or government environment related to the program major. Credit is award for successful completion of specified learning objectives.

CHE 2300 – Engineering Thermodynamics **2 cr**

Prereq: CHEM 1210 and MATH 1220. Recommended prereq: PHYS 2210. First and second law of thermodynamics, internal energy, enthalpy, entropy and open and closed systems are covered. Engineering cycles including Carnot, Otto, Diesel, Brayton and Refrigeration are introduced.

CHE 2450 – Numerical Methods **3 cr**

Prereq: ENGR 1030 or 1040; MATH 2250. Recommended prereq: MATH 2210. Numerical techniques used in engineering computing, including: convergence, error accumulation, roots, solution of linear and nonlinear equations, numerical integration and differentiation, and solutions to differential equations.

CHE 2800 – Fundamentals Of Process Engineering **3 cr**

Prereq: CHE 2300. Material and energy balances, fundamentals of multicomponent phase properties and phase equilibria, numerical and graphing calculations, degrees of freedom, and applications to process engineering calculations are covered.

CHE 2900 – Special Topics In Chem. Eng **1-3 cr**

Special Topics reflecting items of current interest in Chemical Engineering.

CHEF 1110 – Sanitation **3 cr**

Develop an understanding of basic principles of sanitation and safety. Be able to apply them in foodservice operations. Reinforce personal hygiene habits, protecting consumer's health. Class is prerequisite/corequisite for any lab class.

CHEF 1120 – Introduction to Hospitality **3 cr**

Acquaints the student with the scope and complexity of the hospitality industry by exploring the relationship of lodging, food, and beverage operations. Examines industry opportunities and future trends. Upon completion, students should be able to demonstrate an understanding of the background, context, and career opportunities that exist in the hospitality industry.

CHEF 1130 – Management of Marketing **3 cr**

Marketing is the foundation for every successful business. Managers must understand the principles of the marketing cycle; who customers are, what they want and how to set prices. Managers determine goals and track them.

CHEF 1160 – Herb Horticulture **3 cr**

Students identify, cultivate and use various herbs. Students plant, maintain, and harvest herbs. Students learn fundamentals of utilizing herbs for culinary purposes, can prepare for jobs in clean/green industries.

CHEF 1210 – Food and Beverage Service **3 cr**

The course concentrates on professional standards of performance for dining room personnel. Course may be taught with a Service Learning component.

CHEF 1220 – Beginning Food Preparation **3 cr**

Prereq: CHEF 1110 w/C grade or higher, can be taken concurrently or valid ServeSafe Certificate. Coreq: CHEF 1225. This course includes basic classroom and laboratory experiences needed to develop skills in safe knife, tool and equipment handling and apply principles of food preparation to produce a variety of food products. Foundation topics for optionally offered production coursework include breakfast and pantry preparations and stock, soup and sauce cookery.

CHEF 1225 – Beginning Food Preparation Lab **3 cr**

Prereq: CHEF 1110 w/C or higher, can be taken concurrently or valid ServeSafe Certificate. Coreq: CHEF 1220. To develop skills in knife, tool and equipment handling and apply principles of food preparation to produce a variety of food products. To operate equipment safely and correctly. To apply knowledge of laws and regulations relating to safety and sanitation in the kitchen. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the tools, equipment.

CHEF 1299 – Special Studies **2-5 cr**

Prereq: Department Approval Designed to assist students to obtain specialized training specific to industry needs. Is taught on an as-needed basis when requested by industry.

CHEF 1310 – Advanced Food Preparation **3 cr**

Prereq: CHEF 1110 w/C or higher, can be taken concurrently or valid ServeSafe Certificate and CHEF 1220 and 1225. Coreq: CHEF 1315. The course content centers on preparation management using the decision-making process, meeting health and safety needs in the workplace, preparing and serving food, maximizing resources when planning preparing/serving food, and promoting hospitality in food practices.

CHEF 1315 – Advanced Food Preparation Lab **3 cr**

Coreq: CHEF 1310. Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the tools, equipment, and materials appropriate to the course content. Strong emphasis will be given to outcomes in demonstration of personal productivity, basic skills in communication and following instructions, kitchen mathematics, and scientific principles related to the foods industry.

CHEF 1320 – Fundamentals Cost Control (QS) **3 cr**

This class introduces students to the need and principles of controlling costs of food and beverages in a hospitality operation. This course also satisfies a General Ed requirement for AAS degrees, certificates and diplomas.

CHEF 1330 – Foundation Wine **3 cr**

Prereq: 21 years of age minimum. This course will provide training on the pairing of food and beverages, including wines and other beverages both alcoholic and non-alcoholic.

CHEF 1600 – Herb Horticulture **1 cr**

Lecture/Lab Students identify, cultivate and use various herbs. Students plant, maintain, and harvest herbs. Students learn fundamentals of utilizing herbs for culinary purposes, can prepare for jobs in clean/green industries.

CHEF 1810 – Culinary Competitions 101 **1 cr**

Prereq: CHEF 1110 w/C grade or better, can be taken concurrently or valid ServeSafe Certificate. The course will introduce students to the rigors of professional culinary competition as sanctioned by various organizations including: the American Culinary Federation, the Research Chef's Association, SkillsUSA, and the Retail Baker's Association.

CHEF 1815 – Culinary Competitions Lab **2 cr**

Prereq: CHEF 1110 w/C grade or better (may be taken concurrently) or ServeSafe Certificate. Coreq: CHEF 1810. This course approximates industry intensity with a dramatic opportunity to apply culinary, organizational & team building skills. Course completion requires participation in an extracurricular sanctioned event that may require additional fundraising & membership in outside organizations.

CHEF 1896 – Capitol Dining **3 cr**

Prereq: CHEF 1110 w/C grade or higher, can be taken concurrently or valid ServeSafe Certificate. Capitol Dining courses are designed to offer the student practical culinary production experience to include the study of purchasing and inventory management of foods and other supplies to determine order quantities, formal and informal price comparisons, proper receiving procedures, storage management, and issue procedures. A grade of 2. 8 or better applies towards 2,000 hours needed for graduation.

CHEF 2000 – Baking Co-Op **4 cr**

Cooperative education permits the students to gain college credit for the hours spent on the job. Advanced registration and agreement signed between employer, student, and the College must be in place before the semester begins.

CHEF 2001 – Culinary Arts CO-OP **2-4 cr**

Cooperative education permits the students to gain college credit for the hours spent on the job. Advanced registration and agreement signed between employer, student, and the College must be in place before the semester begins.

CHEF 2330 – Advanced French Wines **3 cr**

Prereq: Must be 21 years of age. The French Wine Scholar program is an official course of study designed for wine trade and enthusiasts. It is endorsed by Wines of France/French National Wine Office and taught by licensed French Wine Academy Instructors. Students will gain in depth understanding of wine in France.

CHEF 2410 – Purchasing **3 cr**

Prereq: CHEF 1320 w/C grade or higher. To understand overall concept of purchasing, receiving practices, and regulations governing food products. Receive and store food and non-food items properly.

CHEF 2420 – Baking **3 cr**

Prereq: CHEF 1250, 1350, and student must have valid ServeSafe certification or have passed CHEF 1110 w/C grade or better. Coreq: CHEF 2460. An introduction to the principles and techniques used in the preparation of high-quality baked goods and pastries and evaluation of quality characteristics.

CHEF 2460 – Baking Lab **3 cr**

Prereq: CHEF 1250, 1350, and student must have valid ServeSafe certification or have passed CHEF 1110 w/C grade or better. Coreq: CHEF 2420. To apply the fundamentals of baking science to the preparation of a variety of products. To use and care for equipment normally found in the bakeshop or baking area. Activities are in a lab setting using hands-on experiences.

CHEF 2510 – Garde Manger **3 cr**

Prereq: CHEF 1220, 1225, 1310, and 1315. Coreq: CHEF 2560. Develop skills in producing a variety of cold food products. To prepare items appropriate for buffet presentation including decorative pieces. Strong emphasis will be given to outcomes in demonstration of personal productivity, basic skills in communication & following instructions, kitchen mathematics, & scientific principles related to the foods industry.

CHEF 2520 – Nutrition **3 cr**

In this course, students learn about basic nutrients, food labeling, current issues in nutrition, and the application of nutritional principles to menu development.

CHEF 2560 – Garde Manger Lab **3 cr**

Prereq: CHEF 1220, 1225, 1310, and 1315. Coreq: CHEF 2510. Develop skills in producing a variety of cold food products. To prepare items appropriate for buffet presentation including decorative pieces. Strong emphasis will be given to outcomes in demonstration of personal productivity, basic skills in communication & following instructions, kitchen mathematics, & scientific principles related to the foods industry.

CHEF 2610 – Menu Design **3 cr**

Prereq: CHEF 1320. To apply the principles of menu planning and layout to the development of menus for a variety of types of facilities and service.

CHEF 2620 – Culinary Management **3 cr**

Prereq: CHEF 1120. To prepare for the transition from employee to supervisor. To evaluate styles of leadership and develop skills in human relations and personnel management.

CHEF 2680 – Catering Management **3 cr**

Prereq: CHEF 1110 w/C grade or higher, can be taken concurrently OR student must have valid ServeSafe certification. This class introduces students to the world of catering. Students will study concepts of how to organize and operate a small to mid-size business. A grade of 2. 8 or better applies towards 2, 000 hours needed for graduation.

CHEM 1010 – Intro to Chemistry (PS) **3 cr**

Survey of general chemistry: structure, composition, properties and chemical transformations. Course may be taught with a Service Learning component.

CHEM 1100 – Preparatory Chemistry **3 cr**

Introduction to basic concepts in chemistry. Emphasizes application of math principles, use of computers and other problem-solving methods. Preparation for CHEM 1210 series.

CHEM 1110 – Elementary Chemistry **4 cr**

Prereq: MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing majors). Recommended coreq: CHEM 1115. Introductory course in general inorganic and organic chemistry of hydrocarbons of functional groups. For health science students and other non-chemistry majors.

CHEM 1115 – Elementary Chemistry Lab **1 cr**

Prereq: MATH 1010 or appropriate Accuplacer score (MATH 1020 for Nursing majors). Recommended coreq: CHEM 1110. Graded laboratory, may be taken concurrently with CHEM 1110.

CHEM 1118 – Elem. Chem. Problem Session **1 cr**

Problem session for CHEM 1110. Though not required, students are strongly encouraged to register for this session.

CHEM 1120 – Elementary Bioorganic Chem **4 cr**

Prereq: CHEM 1110. Recommended coreq: CHEM 1125. Introductory organic chemistry of heteroatom functional groups and introductory biochemistry. Primarily for health science students and other non-chemistry majors.

CHEM 1125 – Elem. Bioorganic Chemistry Lab **1 cr**

Prereq: CHEM 1110. Recommended coreq: CHEM 1120. Graded laboratory, may be taken concurrently with CHEM 1120.

CHEM 1128 – Elem. Bioorg. Chem. Prob. Sess **1 cr**

Problem session for CHEM 1120. Though not required, students are strongly encouraged to register for this session.

CHEM 1210 – General Chemistry I **4 cr**

Prereq: MATH 1050 w/C grade or higher, or appropriate Accuplacer score. Recommended coreq: CHEM 1215. Fundamentals of inorganic chemistry. Atomic structure chemical bonding, chemical reactions, solution chemistry, stoichiometry, periodic table, thermochemistry, kinetics, gases, and kinetic molecular theory will be covered.

CHEM 1215 – General Chemistry Lab I **1 cr**

Prereq: MATH 1050 w/C grade or better, or appropriate Accuplacer score. Recommended coreq: CHEM 1210. Graded laboratory, may be taken concurrently with CHEM 1210.

CHEM 1218 – Gen. Chem. I Problem Session **1 cr**

Problem session for CHEM 1210. Though not required, students are strongly encouraged to register for this session.

CHEM 1220 – General Chemistry II **4 cr**

Prereq: CHEM 1210. Recommended coreq: CHEM 1225. Chemical kinetics, equilibria, acids and bases, entropy and free energy, precipitation reactions, electrochemistry, main group chemistry, nuclear chemistry, metallic bonding theories, hybridization, intro to organic chemistry

CHEM 1225 – General Chemistry Lab II **1 cr**

Prereq: CHEM 1210. Recommended coreq: CHEM 1220. Graded laboratory, may be taken concurrently with CHEM 1220.

CHEM 1228 – Gen. Chem. II Problem Session **1 cr**

Problem session for CHEM 1220. Though not required, students are strongly encouraged to register for this session.

CHEM 2000 – Chemistry CO-OP **2-4 cr**

Prereq: Departmental approval. Cooperative education represents flexibility and alternative opportunities for students to complete portions of their educational goals through new learning associated with study-related internships or employment.

CHEM 2310 – Organic Chemistry I **4 cr**

Prereq: CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2315. Introduction to concepts of organic chemistry. Structure, bonding, reaction mechanisms. Detailed study of alkanes, alkyl halides, alkenes, alkynes, aromatic compounds, alcohols. Intro to spectroscopy and stereochemistry

CHEM 2315 – Organic Chemistry Lab I **1 cr**

Prereq: CHEM 1220 w/C grade or better. Recommended coreq: CHEM 2310. Graded laboratory, may be taken concurrently with CHEM 2310.

CHEM 2318 – Organic Chem. I Prob. Session **1 cr**
Problem session for CHEM 2310. Though not required, students are strongly encouraged to register for this session.

CHEM 2320 – Organic Chemistry II **4 cr**
Prereq: CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2325. Conjugated and aromatic systems, organometallic compounds carbonyl compounds, carboxylic acids and derivatives, amines biological molecules. Mechanistic organic chemistry, functional group transformation and multistep synthesis

CHEM 2325 – Organic Chemistry Lab II **1 cr**
Prereq: CHEM 2310 w/C grade or better. Recommended coreq: CHEM 2320. Graded laboratory, may be taken concurrently with CHEM 2320.

CHEM 2328 – Organic Chem. II Prob. Session **1 cr**
Problem session for CHEM 2320. Though not required, students are strongly encouraged to register for this session.

CHI 1010 – Beginning Chinese I **5 cr**
First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Chinese culture. Lab attendance is required.

CHI 1020 – Beginning Chinese II (LN) **5 cr**
Prereq: CHI 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Chinese culture. Lab attendance is required.

CHI 1300 – Beginning Conversation **1 cr**
Prereq: CHI 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

CHI 1900 – Special Studies in Chinese **1-2 cr**
Prereq: Instructor approval. In the course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

CHI 2010 – Intermediate Chinese I **4 cr**

Prereq: CHI 1020 or instructor approval. Third in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of second year is to increase functional language ability. Emphasis is on proficiency. Lab attendance is required.

CHI 2020 – Intermediate Chinese II **4 cr**

Prereq: CHI 2010 or instructor approval. Second-year Chinese courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc) Lab attendance is required.

CHI 2300 – Conversation **1 cr**

Prereq: CHI 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

CHI 2700 – Introduction to Literature **3 cr**

Prereq: CHI 1020 or instructor approval. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

CHI 2710 – Intro to Chinese Film **3 cr**

Prereq: CHI 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in Chinese. Lab attendance required.

CHI 2900 – Special Topics in Chinese **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in Chinese language and culture. Lab attendance required. May be repeated for credit.

CIS 1020 – Computer Essentials (CL) **3 cr**

A hands-on introduction to problem solving using Computer Tools. Basic hardware and Office software products topics are discussed.

CIS 1130 – Object-Oriented Programming II **3 cr**

Recommended prereq: CIS 1030. Continuation of CIS 1030. Fundamental concepts of object-oriented design and programming in Java. Classes from the Java API and user-defined classes are used. Topics: GUIs, data collection and manipulation, complex algorithms.

CIS 2430 – Web Programming **3 cr**

Recommended prereq:CIS 1430 and CIS 2420. Students learn to create E-Commerce solutions and Internet applications using XHTML, JavaScript, PHP, and MYSQL. Students will also be introduced to CGI and Java Applets.

CIS 2770 – Java II **3 cr**

Recommended prereq: CIS 2760. Provides student with the required knowledge and skills to build advanced business object-oriented programs using Java. Students learn Java APIs, design and program large-scale programs using various design patterns in the software development life cycle.

CJ 1010 – Introduction To Criminal Justice (SS, DV) **3 cr**

This course exposes students to theories, concepts, and methods used to facilitate understanding, predicting and responding to issues of deviance and crime in America. Also includes development and evolution of components in the American Criminal Justice System, including the history of racial, ethnic and gender discrimination on charging, conviction, incarceration and employment.

CJ 1300 – Introduction to Corrections **3 cr**

Prereq: CJ 1010. This course examines the history, function and administration of corrections in our criminal justice system.

CJ 1330 – Criminal Law **3 cr**

Prereq: CJ 1010. This course examines crimes, defenses and the historical origins and functions of criminal law in our society. Topics include sources of substantive law, classification of crimes parties to crime, and related topics.

CJ 1340 – Criminal Investigations **3 cr**

Prereq: CJ 1010. This course examines the responsibilities of officers in investigation of crimes. Included are investigative techniques in preliminary and follow-up investigation: reports, interviewing, interrogation, obtaining information, locating and arresting suspects and preparing for trial.

CJ 1350 – Intro to Forensic Science **3 cr**

Recommended Prereq: CJ 1340. This covers the importance of locating, collection and the preservation of physical evidence at crime scenes. Included are crime laboratory techniques and services in examination of evidence.

CJ 1900 – Special Studies **1-24 cr**

This course covers independent study in criminal justice. CJ elective credit may also be earned for POST, EMT, or other training courses offered at SLCC Institute of Public Safety.

CJ 1910 – Special Function/Reserv Office **12 cr**

Module I (14 weeks). Must be a United States Citizen before they can be accepted into the Academy and 21 years of age before the Special Function Reserve Officer Training certification exam. Eligible for airport or campus security, corrections, and constable service.

CJ 1920 – Peace Officer Basic **12 cr**

Prereq: CJ 1910. Module II (17 weeks). Prepares participants for Law Enforcement Certification.

CJ 2000 – Criminal Justice Co-op **2-4 cr**

Prereq: CJ 1010, CJ 1330, CJ 1340, CJ 1350 & CJ 2350. This course provides for supervised work experience in a public or private agency related to criminal justice. Must complete specific learning objectives related to their program major and employment.

CJ 2020 – Criminal Justice Supervision **3 cr**

Prereq: CJ 1010. This course is designed for first line supervisors within criminal justice agencies. Topics covered include work environment, diversity, motivation, discipline, evaluation, planning and leadership. Supervisory report writing is an integral part.

CJ 2060 – Community Corrections **3 cr**

Prereq: CJ 1010. This course examines the types of sentences utilized as alternatives to incarceration. Included are probation, parole, substance abuse and other treatment programs, half-way houses, house arrest, electronic monitoring, community service and etc.

CJ 2110 – Introduction to Security **3 cr**

Prereq: CJ 1010. This course studies security in the private sector. Covered are personnel investigations, physical security, investigative techniques, security awareness, risk management and internal and external theft and fraud.

CJ 2260 – ContemporaryPrison/Jail Issues **3 cr**

Prereq: CJ 1010. This course focuses on the various problems encountered in prisons and jails. Topic areas include officer morale and conduct, inmate culture, cultural diversity, custody and control, discipline, treatment, inmate deprivations and violence.

CJ 2300 – Introduction to Policing **3 cr**

Prereq: CJ 1010. This course examines the history, function and administration of policing and the role of police in modern society. Special emphasis will be placed on problems and issues confronting police and solutions within an organizational framework.

CJ 2330 – Juvenile Justice **3 cr**

Prereq: CJ 1010. This course will examine juvenile crime, trial and sentencing and trying juveniles as adults. Laws regarding child abuse, foster care, termination of parental rights, child custody, adoption and the evolving nature of juvenile law.

CJ 2350 – Laws of Evidence **3 cr**

Prereq: CJ 1010 & CJ 1330. This course covers principles and law regarding evidence in criminal cases. Special attention will be placed on the Constitutional limitations on arrest, search and seizure, and impact of the exclusionary rule on law enforcement techniques and practices.

CJ 2390 – Traffic Law/Related Services **3 cr**

Prereq: CJ 1010. This course covers the role of law enforcement in traffic safety, traffic law, accident investigation, auto-related crime investigation and other highway related problems.

CJ 2410 – Introduction to Victimology **3 cr**

Prereq: CJ 1010. This course examines the science of victimology.

CJ 2420 – Anatomy of Homicide Investiga. **3 cr**

Prereq: CJ 1010. This course follows investigative methods utilized in homicide cases.

CJ 2440 – Organized Crime **3 cr**

Prereq: CJ 1010. This course examines roots, causes, and operations of organized crime in the United States and around the world from the late 1800's with the beginning of the Mafia to modern gangs and organized criminal elements.

CJ 2450 – Terrorism **3 cr**

Prereq: CJ 1010. This course examines the history and development of terrorism in modern society and the destructive methods that terrorists use to accomplish their goals. Also included is a section on bio-terrorism.

CJ 2460 – Psychological Profiling **3 cr**

Prereq: CJ 1010. This course examines the technique of criminal investigation analysis and psychological profiling.

CJ 2470 – Introduction to Criminology **3 cr**

Prereq: CJ 1010. This course examines the theories and sources of criminal behavior.

CJ 2480 – Crime Scene Processing **3 cr**

Prereq: CJ 1010 & CJ 1350. This course covers the duties and responsibilities of the crime scene technicians at the scene of a crime. Includes instruction on the proper collection, handling and securing of evidence.

CJ 2490 – Drug Trafficking **3 cr**
Prereq: CJ 1010. This course examines the government's efforts in the war on drugs.

CJ 2500 – Contemporary Violence **3 cr**
Prereq: CJ 1010. This course examines violence in our society. Topics covered will be serial killing, mass murder, spree killing and etc.

CJ 2510 – Psychology of Crimin. Behavior **3 cr**
Prereq: CJ 1010. This course examines the psychological aspects of criminal behavior.

CJ 2530 – Police Patrol Techniques **3 cr**
Prereq: CJ 1010. This course covers the history, dynamics, and principles of police patrol operations and techniques. Special emphasis will be on Directed Patrol, Service-Oriented Policing and cutting-edge approaches to front-line street policing.

CJ 2540 – Careers in Law Enforcement **3 cr**
Prereq: CJ 1010. This course provides an insight into the workings and hiring practices of various law enforcement agencies such as ATF, DEA, FBI and local, county and state police agencies. Also available is access to law enforcement guest lectures.

CJ 2560 – Law Enforcement Documentation **3 cr**
Prereq: CJ 1010. This course covers specialized communications in Law Enforcement from initial report to courtroom testimony.

CJ 2920 – Special Topics in CJ **3 cr**
The specific titles of courses and credit hours will appear in the class schedule. The courses offered under this category are utilized to offer the student educational opportunities in current criminal justice/law enforcement issues.

CMA 1110 – Cement Mason 1A **5 cr**
Prereq: APPR 1470 or appropriate Accuplacer score. This course covers the use and characteristics of concrete, materials used, safe use and practices with tools and equipment. Course also covers sub grade preparation and form work.

CMA 1120 – Cement Mason 1B **5 cr**
Prereq: CMA 1110 w/C grade or higher. Placement of concrete, finishes including interior, exterior and highway finishes. Curing protection of additives for concrete with tests on strength, slump, and air entrainment.

CMA 1210 – Cement Mason 2A **5 cr**

Prereq: CMA 1120 w/C grade or higher. Blue Print reading and estimating of material and labor needed. Practical training in design and layout and continued hands-on with placement and finishes.

CMA 1220 – Cement Mason IIB **5 cr**

Prereq: CMA 1210 w/C grade or higher. Level II blueprint reading and estimating with additional curing and additive methods and uses. Surface treatment of concrete and uses of each. Hands-on practical for all phases of concrete construction.

CMA 2310 – Cement Mason IIIA **5 cr**

Prereq: CMA 1220 w/C grade or higher. Use and care of tools and equipment including safe operation and handling. Concrete testing and meaning of strength and slump test results as well as air entrainment.

CMA 2320 – Cement Mason IIIB **5 cr**

Prereq: CMA 2310 w/C grade or higher. Placement of concrete finishes used and purposes, and decorative and specialty finishes. Safety in the work place and requirements of safety when working with concrete.

CMGT 1045 – Building Construction I **4 cr**

Students will learn the concepts of footings, foundations and flatwork. Green build and traditional techniques of structural framing will be taught. Students will layout and construct floors, exterior and interior walls, doors and windows. Sophisticated methods used to maintain a tight building envelope will be used. Stair and roof construction will be introduced. Course is taught 1st half of semester.

CMGT 1100 – Construction Math (QS) **3 cr**

Mathematical operations and their practical application will be used to solve typical construction layout problems such as stairways, rafters, handrails, windows, doors, etc. Percents, decimals, fractions, powers and triangle trigonometry will be used to calculate area, volume, spacing, and size. Students will be given opportunity to layout mathematical solutions with hands on experience.

CMGT 1110 – Birth of a Flute (FA) **3 cr**

Students will use wood as an artistic medium to create a professional Native American style flute. This course introduces students to flute origins, history, design, symbolism, music and its relevance to Native American culture.

CMGT 1130 – OSHA 30 for Construction **2 cr**

In-depth study of OSHA safety practices and its role in the construction industry. Review workers safety procedures and practices used in the construction industry. Attendance is required to be elegible for OSHA 30 completion card.

CMGT 1145 – Interior Finishes I **4 cr**

This course covers materials and selection that support the responsible use of natural resources. Subjects include hanging doors, installing base, casing, stair treads, skirts and closet organizers. Installation of hardwood floors, handrails and stair caps will be taught. Students will also be introduced to the basics of installing tile floors and shower walls. Course is taught 1st half of semester.

CMGT 1200 – Personal Projects **2 cr**

Prereq: CMGT 1220 or CMGT 1340 or CMGT 1530 or instructor approval. This course will allow students to plan a special project of their own design. Through consultation with the instructor, design approval and class schedule can be determined. Students are required to follow all safety rules & procedures. Students are encouraged to plan projects that utilize engineered & sustainable lumber products.

CMGT 1220 – Woodworking & Millwork I **4 cr**

This course explores the basic principles of woodworking. Safety will be discussed in depth. Topics include the theory & hands-on application of joinery, design, cut-lists, stock preparation & assembly. An assigned skill building project utilizing techniques such as frame & panel construction. Includes an introduction to use wood veneers as a sustainable practice. Typical project cost: $100.

CMGT 1225 – Woodworking & Millwork I **4 cr**

This course explores the basic principles of woodworking. Safety will be discussed in depth. Topics include the theory and hands-on application of joinery, design, cut-lists, stock preparation and assembly. An assigned skill building project utilizing techniques such as frame and panel construction. Includes an introduction to use wood veneers as a sustainable practice. Typical project cost: $100

CMGT 1245 – Cabinetmaking & Renewable Materials I **4 cr**

This course explores the basics of kitchen design and cabinet construction. Includes the materials and methods that promote the responsible and sustainable use of renewable resources. Theory and hands-on instruction are designed to take students step by step through the cabinetmaking process. Safety will be discussed in depth. This course is taught in the 1st half of a semester.

CMGT 1320 – Building Construction I **4 cr**

The concepts of footings, foundations & flatwork are studied. Green build & traditional techniques of structural framing are taught. Students layout and construct floors, exterior & interior walls, doors & windows. Current methods for maintaining a tight building envelope will be used. Stair & roof construction is introduced. Course is taught 1st half of semester.

CMGT 1330 – Interior Finishes I **4 cr**

This course covers materials and selection that support the responsible use of natural resources. Subjects include hanging doors, installing base, casing, stair treads, skirts & closet organizers. Installation of hardwood floors, handrails and stair caps will be taught. Students will also be introduced to the basics of installing tile floors and shower walls. Course is taught 1st half of semester.

CMGT 1340 – Cabinetmaking & Renewable Materials I **4 cr**

This course explores the basics of kitchen design and cabinet construction. Includes the materials & methods that promote the responsible and sustainable use of renewable resources. Theory & hands-on instruction are designed to take students step by step through the cabinetmaking process. Safety will be discussed in depth. This course is taught in the 1st half of a semester.

CMGT 1410 – Construction Materials & Methods **2 cr**

Course provides students with knowledge of light commercial and residential building techniques and materials. Examines common construction materials, components, and systems related to steel and wood frame structures, emphasizing sustainable building practices. The construction process will be analyzed from site planning to completion.

CMGT 1420 – Building Energy Systems **2 cr**

An introduction to energy systems for light commercial and residential construction. Systems include electrical, plumbing, heating, ventilation, air conditioning, air distribution, lighting, solar and alternative energy systems and the application and effect on the building envelope and air quality.

CMGT 1450 – Const Print Reading & Layout **3 cr**

A study of light commercial and residential print reading as it pertains to today's construction industry. Course includes the study of architectural symbols, terms, views, sections, and details. Layout methods for building placement will be covered. Electrical & mechanical systems and the use of electronic files such as PDF & DWG files are examined.

CMGT 1530 – Furniture Design & Construction I **3 cr**

This course includes the construction of an assigned skill building project that utilizes a variety of joinery relative to case construction. Safety will be discussed in depth. Includes topics such as; sustainability in lumber selection, proper procedures, layout & design, hardware selection & glazing. Traditional wood finishes will be discussed. Typical project cost: $60.

CMGT 1660 – Concrete Technology **2 cr**

Current trends, properties, applications, and procedures are evaluated. Course covers physical and mechanical properties, as well as the design and control of concrete mixtures, special Portland cements, admixtures and chemical reactions. Tests on flexure, shear, compression, and strength will be evaluated. Instruction is given relative to ACI certification.

CMGT 2000 – Construction Managment CO-OP **3-5 cr**

This is a supervised work experience in a business, industrial or government environment related to the program major. Credit is awarded for completion of specific objectives that provide new learning experiences related to the major.

CMGT 2045 – Building Construction II **4 cr**

Students will learn advanced techniques of framing in depth, including the details of stair and roof construction. Factors such as insulation, ductwork & vent chases will be considered to minimize heat loss. Exterior decks, railings, doors & windows will be installed. Weatherization techniques will be taught. A continuation of CMGT 1045. Course is taught 2nd half of semester.

CMGT 2120 – Furniture Design & Construction I **3 cr**

This course includes the construction of an assigned skill building project that utilizes a variety of joinery relative to case construction. Safety will be discussed in depth. Includes topics such as; sustainability in lumber selection, proper procedures, layout and design, hardware selection and glazing. Traditional wood finishes will be discussed. Typical project cost: $60.

CMGT 2145 – Interior Finishes II **4 cr**

Subjects include the technical aspects of layout and installation of floor tile, bathroom shower & tub enclosures, built-in bookcases and fireplace mantles. Students should gain an in depth understanding of the materials that are used to promote sustainable construction. A continuation of CMGT 1145. Course is taught 2nd half of semester.

CMGT 2220 – Woodworking & Millwork II **4 cr**

Prereq: CMGT 1220 or CMGT 1530. Students continue with their skills in the construction of a skill building proejct that will include more advanced joinery than included in CMGT 1220. Students are taught how to create and use veneer as an inclusion of sustainable practices in woodworking. Skills such as bent laminations, tapered legs, mortise & tennon & blind dovetails are discussed. Typical project cost: $100.

CMGT 2235 – Cabinetmaking & Renewable Materials II **4 cr**

Students continue to explore the principles of kitchen design utilizing a variety of cabinet design software packages. Course covers the various cabinet construction methods that promote the responsible and sustainable use of renewable resources. Also covers cabinet installation techniques. Course is offered during the 2nd half of a semester as a continuation of CMGT 1245.

CMGT 2310 – Construction Writing **3 cr**

This course covers the study of and practice in construction writing. Includes: basic word processing, daily logs, bid proposals, letters, policies, and procedures.

CMGT 2320 – Building Construction II **4 cr**

Prereq: CMGT 1320. This course is a continuation of CMGT 1320. Course is taught 2nd half of semester. In depth techniques of advanced framing, including details of stair and roof construction are emphasized. Factors such as insulation, ductwork & vent chases are considered to minimize heat loss. Exterior decks, railings, doors & windows will be installed. Weatherization techniques are taught.

CMGT 2330 – Interior Finishes II **4 cr**

Prereq: CMGT 1330. Subjects include the technical aspects of layout and installation of floor tile, bathroom shower & tub enclosures, built-in bookcases and fireplace mantles. Students should gain an in-depth understanding of the materials that are used to promote sustainable construction. A continuation of CMGT 1330. Course is taught 2nd half of semester.

CMGT 2340 – Cabinetmaking & Renewable Materials II **4 cr**

Prereq: CMGT 1340. Students continue to explore the principles of kitchen design utilizing a variety of cabinet design software packages. Course covers the various cabinet construction methods that promote the responsible and sustainable use of renewable resources. Also covers cabinet installation techniques. Course is offered during the 2nd half of a semester as a continuation of CMGT 1340.

CMGT 2435 – Woodworking & Millwork II **4 cr**

Students will draw upon their knowledge and skills to design and build a project utilizing a variety of woodworking joinery. Consultation with the instructor and theory instruction will ensure that the project will foster skill improvement. An inclusion of sustainable practices in woodworking will be required. Project cost will vary depending upon student's design.

CMGT 2450 – Furniture Design & Const II **3 cr**

This course builds upon previous joinery knowledge to construct an assigned skill building project that includes advanced features such as curved components & bent laminations. Conservation of resources will be emphasized as advanced veneering techniques & hand tool use are taught. Typical project cost: $100.

CMGT 2530 – Furniture Design & Construction II **3 cr**

Prereq: CMGT 1220 or CMGT 1530. This course builds upon previous joinery knowledge to construct an assigned skill building project that includes advanced features such as curved components & bent laminations. Conservation of resources will be emphasized as advanced veneering techniques & hand tool use are taught. Project costs vary as the option to build an approved personal design are available.

CMGT 2610 – Building Energy Systems **2 cr**

An introduction to energy systems for residential and light commercial construction. Systems include electrical, plumbing, heating, ventilation, air conditioning, air distribution, lighting, solar and alternative energy systems and the application and effect on the building envelope and air quality.

CMGT 2640 – Construction Estimating **3 cr**

Prereq: CMGT 1410 & CMGT 1450. An introduction to material take-offs, labor cost estimate, equipment cost, price extensions and competitive bidding. Various building systems will be discussed and evaluated. Formulas will be input into software such as Microsoft Excel to provide students with an experience in computerized estimating & takeoffs.

CMGT 2670 – Building Codes & Inspections **2 cr**

This course is the study of current commercial and residential building codes. Inspections for code enforcement & compliance, occupancy classifications, area limitation, and life-safety regulations are analyzed. Specific attention is given to energy management code restrictions.

CMGT 2710 – Computer Applications for Cabinetmaking & Woodworking **3 cr**

An introduction to software common to the cabinetmaking & woodworking industry such as Cabinet Vision, ArtCAM & others. Programs that can be output to a CNC router will be created. Nested based operations as well as individual part processing will be addressed. Macros & x/y/z axis will be taught.

CMGT 2720 – CNC Operations for Cabinetmaking & Woodworking **1 cr**

An introduction to the basic skills needed to operate a CNC woodworking machine. Students learn the difference between nested based machines and other types of CNC machines. Students learn tooling, maintenance, machine software operation & proper load/unloading. Programs written in CMGT 2710 can be used.

CMGT 2810 – Construction Project Management **3 cr**

Prereq: CMGT 1410, 1450, 2640 & 2670. This course allows students to work in groups and put into practice aspects of project execution, planning, scheduling, project controls & supervision of light commercial and residential construction projects. Jobsite documents, labor relations & workflow analysis are covered. It is designed to utilize knowledge from all other construction management courses on a final capstone project.

CMGT 2850 – Green Building Standards **1 cr**

This course examines and evaluates the current green building standards. Standards include: LEED - U. S. Green Build Council; Energy Star – U. S. Environmental Protection Agency and the Department of Energy; ICC 700 – National Home Builders Association. This course provides initial training for industry certifications.

CMGT 2870 – Construction Law **2 cr**

Prereq: CMGT 1410, 1450, 2640 & 2670. Course examines Construction Business start-up procedures, Contract Management, Risk Management (Insurance), Tax Basics, and Construction Lien Laws. Business Ethics and Contractor Licensing Requirements are studied.

CMGT 2990 – Special Studies **1-20 cr**

This course is designed to cover special topics in building construction. This will be developed upon instructor approval. in conjunction with the student.

CMI 1110 – Cement Mason Independent 1A **5 cr**
Prereq: APPR w/C grade or higher, or appropriate Accuplacer score. This course is an introductory course to concrete finishing. Students will gain a basic knowledge of the construction craft and an introductory understanding of properties of concrete.

CMI 1120 – Cement Mason Independent 1B **5 cr**
Prereq: CMI 1110. This course will provide students with knowledge and skills concerning proper grade preparation as well as requirements and methods of placement, finishing, protecting and curing of concrete.

CMI 1210 – Cement Mas on Independent 2A **5 cr**
Prereq: CMI 1120. Students will gain an in-depth understanding of concrete properties and the knowledge base to estimate concrete quantities. Various forming requirements for site concrete and architectural finishes will also be covered.

CMI 1220 – Cement Mason Independent 2B **5 cr**
Prereq: CMI 1210. This course provides students with an in-depth understanding of the application of concrete in industrial and superflat floors. Advanced study in surface treatments, quality control issues and repairs are also covered.

COMM 1010 – Elements of Effective Communication (CM,IN) **3 cr**
Communication principles and practice applied in dyadic, group, written, electronic, and oral presentation assignments. Listening, perception, verbal clarity, nonverbal, diversity, conflict management and interviewing in workplace and interpersonal settings.

COMM 1011 – Effective Workplace Communication for Career and Technical Education **1 cr**
Communication theory and skills practice with emphasis on effective interpersonal relationships in workplace settings. Addresses listening, perception, verbal clarity, nonverbal communication, organizational culture, diversity, communication ethics, and interviewing.

COMM 1012 – Effective Teamwork for Career and Technical Education **1 cr**
Communication theory and skills practice with emphasis on effective teamwork in workplace settings. Addresses team relationships, productivity, decision-making, problem-solving, conflict management, leadership, and facilitating & planning meetings.

COMM 1013 – Effective Oral Presentations for Career and Technical Education **1 cr**
Communication theory and skills practice with emphasis on preparing, delivering, and evaluating oral presentations in workplace settings. Addresses anxiety management, audience assessment, organizing ideas, use of sufficient evidence, ethical persuasion, delivery, visual aids, and cultural variations.

COMM 1020 – Prin/Public Speaking (CM,IN) **3 cr**
Preparing and delivering speeches for civic and professional occasions. Basic theory and skills practice, including audience analysis, anxiety mgt, critical listening, supporting claims with evidence, persuasion, motivation, delivery.

COMM 1050 – Elem. of Human Comm. (HU) **3 cr**
Survey of the basic issues, theories, and perspectives in the study of human communication, through critical analysis of oral, written and audio-visual texts.

COMM 1080 – Conflict Mgmt & Divers.(SS,DV) **3 cr**
Analyzes conflict communication from the perspectives of marginalized and empowered populations. Explores ethnocentrism, power, anger, inequality, disrespect. Students learn conflict management skills for workplace, community and personal life.

COMM 1120 – Principles of Interviewing **3 cr**
Interviewing methods with emphasis on interview design and questioning techniques in business, professional, and journalistic environments.

COMM 1130 – Reporting for the Mass Media **4 cr**
Organization and written presentation of facts to a mass audience, with emphasis on reporting and writing news. Development of information-gathering skills for presentation through mass media.

COMM 1140 – Environmental Communication **3 cr**
Covers the organization and delivery of facts to a mass audience; specifically communicating about issues related to sustainability. Course offers hands-on experience in both traditional media and new communication technologies.

COMM 1250 – Intro. Performance Studies **3 cr**
Investigates Performance Studies from multiple perspectives, including communication and anthropology; explores performance and performativity; integrates theory and practice, to include TV and radio experience.

COMM 1270 – Analysis of Argument (IN) **3 cr**
Introduction to the study of argumentation--reasoning, issues, audience analysis--in decision-making contexts.

COMM 1300 – Money & Creative Professionals **1 cr**
Basic financial information for creative professionals or students interested in freelance work or setting up a studio. This course is useful for artists working in the areas of fine art, the many forms of design, photography, film/video, music, advertising, the performing arts and creative or technical writing.

COMM 1400 – Copyrights for Creative Professionals **1 cr**
This introductory short course focuses on U. S. copyrights given to creative individuals who produce visual, musical, literary works of art or performing arts. The course also covers licensing and trademarking.

COMM 1420 – Salesmanship And Promotion For Creative Professionals **2 cr**
This introductory short course will introduce basic sales and self-promotional principles and techniques specifically tailored for creative artists.

COMM 1440 – Building A Creative Business **2 cr**
This introductory short course will introduce basic business structures and examine the process of setting up a business for creative professionals working in the areas of music, the many forms of visual design, fine art, animation, film and video, and the literary arts.

COMM 1500 – Intro to Mass Comm (ID) **3 cr**
Introductory survey of field of mass communication. Preview of function, performance, and structure of individual mass media and the relationships between media audiences and media and government.

COMM 1515 – Basic Audio Production **3 cr**
A broad overview of sound, sound systems, recording, and live sound reinforcement providing basic training in the physics of sound and the hardware and systems used to control and record it. No prerequisites.

COMM 1560 – Radio Performance & Production (ID) **3 cr**
Become a better communicator by having your own radio show on the student radio station, RadioSLCC.com. Learn about the radio industry, on-air performance techniques, and commercial writing and production. Use industry practices and concepts along with theories and models from the disciplines of communication, and business to become a better communicator on and off the air.

COMM 1610 – Journalism I Reporting/Writing **3 cr**
Prereq: ENGL 1010. This is a basic survey course in journalism, emphasizing fact finding and news writing, including investigative reporting on specific beats. Class members contribute to the student newspaper and/or to other student news media.

COMM 1620 – Journalism II - Editing/Layout **3 cr**
Prereq: COMM 1130 or 1610. In-depth study of reporting and news delivery, to include news writing, editing, design and delivery across multiple mass mediums. Members of the class contribute to the Mass Communication Center.

COMM 1800 – Digital Media Tools/Techniques **4 cr**

An introduction to digital media fundamentals and the evolving industry. Students obtain a hands-on, in-depth experience with digital media tools, content and production techniques. Industry standard hardware and software tools are used to create and edit images, audio, video, layout, and web media to create powerful media. Copyright and professional responsibility issues and trends are covered.

COMM 1820 – Media Content Management **3 cr**

Prereq: COMM/ENGL/FLM 1800 or ART 1800 or concurrently. An introduction to content management systems that include digital and media assets to improve efficiency and lower costs. Types include Internet/web, television/IPTV, radio/podcasts, cell/mobile and print delivery are covered.

COMM 1850 – Portfolio/Career Preparation **2 cr**

Prereq: Satisfactory completion of a minimum of two 2000 level courses in Visual Art and Design, Communication, and/or Fine Arts departments An introductory course focused on portfolio and freelance career preparation for all creative artists.

COMM 1900 – Special Studies/ Communication **1-3 cr**

Prereq: Department approval. Students plan areas of study and work with an instructor on individual basis.

COMM 2000 – Communication CO-OP/Internship **1-6 cr**

Prereq: Department approval. Supervised work experience in a business, industrial, or government environment related to the student's COMM program sequence. Credit awarded for successful completion of specified learning objectives that provide new learning.

COMM 2020 – Persuasion Practices **3 cr**

Study and practice of principles of persuasion in public speaking and other forms of communication.

COMM 2110 – Interpersonal Comm (ID,HR) **3 cr**

Development of listening skills, situational analysis and participation in various interpersonal contexts through focus on the elements and processes which contribute formation, maintenance and termination of relationships.

COMM 2120 – Small Group Communication **3 cr**

Introduces elements of the small group process, focusing on problem-solving and decision-making techniques. Development of students' skills of participation and analysis in decision-making.

COMM 2150 – Intercultural Commun. (ID,DV) **3 cr**

Examination of how cultural similarities and differences impede or enhance communication across cultures. Issues of diversity, values, norms among different cultures, as well as issues of cultural diversity, values and norms.

COMM 2170 – Organizational Communication **3 cr**
Overview of historical and contemporary perspectives of organizational communication; analysis of current issues and practices of organizational communication; development of communication competence in organizational settings. Internet only.

COMM 2200 – Beginning Video Production **4 cr**
Recommended prereq: COMM/ENGL/FLM 1800. Development of basic audio and video production skills for television and online distribution, using individual and group assignments through traditional lecture, hands-on training, field and studio production environments.

COMM 2210 – Television, Film, Video Lighting Essentials - Profesional Media Practice **2 cr**
Development of basic television, film, and video lighting skills. Using individual and group assignments through traditionals lecture, hands-on learning, field and studio production environments.

COMM 2220 – Beginning Editing - Profesional Media Practice Workshop **2 cr**
Recommended Prereq: COMM/FLM/ENGL 1800. Students develop a basic understanding of non-linear editing using industry standard editing software.

COMM 2250 – Television Studio Production 1 **2 cr**
Development of basic television studio production skills using assignments through traditionals lecture, hands-on learning, studio production environments.

COMM 2260 – Television Field Production 1 **2 cr**
Development of basic television feild production skills. Students work with the Mass Communication Center programs to support production of division and external client multi-camera TV productions. Students also learn TV equipment maintenance, and signal path, and TV engineering basics.environments.

COMM 2300 – Introduction Public Relations **3 cr**
Survey of tools, principles, practices and publics of public relations profession. Includes lab component where students are expected to produce public relations documents under a time deadline.

COMM 2310 – Inter. Video Prod. - News **4 cr**
Prereq: COMM 2200 or instructor approval and COMM 1130 recommended. Provides production experience for students with television or video production background. Students work independently on weekly news packages and together to produce a live weekly news program -Globe Student News.

COMM 2400 – Social Media Tools and Strategies **4 cr**
An introduction to Web 2.0 components such as social network sites, blogs and RSS feeds, wikis, collaboration and virtual teams, media sites, and forums as well as how organizations successfully use these tools for communication.

COMM 2440 – Web Site Design **3 cr**

Prereq: COMM/ENGL/FLM 1800 or ART 1800. Students learn the knowledge and skills needed to build and manage professional web sites using Dreamweaver and Fireworks. Students create interactive web sites, graphics, animation, and advanced styling using HTML, CSS, and JavaScript.

COMM 2500 – Elemt/Issues-Digital Media(ID) **4 cr**

An introduction to digital media, including an understanding of the history, trends, devices, services, practices, and societal issues associated with the rise and use of communication technologies.

COMM 2510 – Adv. Video Prod. - Documentary **4 cr**

Prereq: COMM 2200 or FLM 1055. Provides advanced video production experiences for students who already have significant video production experience. Students work alone to produce short format documentary films and in groups to produce long format film projects.

COMM 2525 – Web Site Promotion **4 cr**

Prereq: COMM/ART 2440. Students develop a website promotion campaign which includes search engine optimization, pay-per-click advertising, linking campaigns, email marketing, online publicity, and affiliate strategies to develop a business web strategy.

COMM 2550 – Website Design II **3 cr**

Prereq: ART/COMM 2440 w/C grade or better. Continuation of web design principles to create advanced Website designs by integrating animation, video, and audio along with CSS, and JavaScript libraries. Emphasis is placed on interface design principles and concepts.

COMM 2560 – Advanced Radio Performance **3 cr**

Prereq: COMM 1560 or equivalent. Advanced instruction and experience in the production of audio programs for radio, including history, career opportunities, issues, techniques of radio and on-air announcing, involving commercial, news and sports on the student radio station.

COMM 2570 – Intro to Visual Comm (FA) **4 cr**

Explores Visual communication principles and practices essential to all media. Memorable visual messages have the greatest power to inform, educate, and persuade. Discover why some images are remembered while some are not.

COMM 2580 – Web Animation **3 cr**

An introductory course focused on using design software to create effective web page animation. Crosslisted with ART 2580.

COMM 2590 – Advertising Media & Sales **3 cr**

The course focuses on advertising media planning and media sales, including people and project management. Students learn media formulas and terminology, and work to create media plans and make successful media buys.

COMM 2660 – Visual Effects & Compositing **3 cr**

Prereq: ART 2640. Overview of the processes used to create and composite 2D and 3D special effects using procedural workflows and various software tools to achieve efficient and flexible results.

COMM 2900 – Special Projects **3 cr**

Students design and produce a significant capstone video or audio production project, incorporating elements related to their specific interests/specialties and demonstrating a mastery of related competencies and skills. Exam and presentation.

COMM 2920 – Current Topics-Communication **1-2 cr**

Prereq: Department approval. This course examines selected topics not offered in the regular curriculum. Prerequisites may vary and are dependent upon course content. Consult current class schedule for offering and credits under this course number.

COMM 2990 – Second Year Project **4 cr**

Prereq: COMM 1560 or COMM 2200. Students design and produce a capstone video or audio production project, incorporating elements related to their specific interests/specialties. Students demonstrate mastery of related production competencies and skills.

CPA 1110 – Carpentry - Computer Skills **5 cr**

Prereq: MATH 0920 or 0950 or appropriate Accuplacer score or CPA 1470. Applied instruction in carpentry techniques. Tool use and safety, maintenance, sharpening, load rigging and hand signals. First Aid, CPR and OSHA 10-hour safety class. Basic mathematics, fractions, decimals, and conversions.

CPA 1120 – Carpentry - Concrete Forming **5 cr**

Prereq: CPA 1110. Course provides training in proper methods used in concrete forming including footings, walls, columns, piers, slabs and suspended structures. Mathematics used in class includes measurements, volumes and areas.

CPA 1210 – Carpentry - Wood Framing **5 cr**

Prereq: CPA 1120. Applied instruction in wood framing, residential and commercial. Building layout, floor and wall framing, trusses, overhangs, canopies and stair design.

CPA 1220 – Carpentry - Finish, Interior **5 cr**

Prereq: CPA 1210. Application of siding and exterior trim installation, door and hardware, paneling, trim and moldings. Fabrication and installation of cabinetry and counter tops.

CPA 1470 – Math for the Trades (QS) **5 cr**
A customized carpentry course in applied mathematics for the trades including algebraic and trigonometric functions.

CPA 2000 – Carpentry CO-OP **3-6 cr**
Prereq: Instructor approval. Permits students to gain college credit for the hours spent on the job. Advanced registration and agreement signed by employer, employee/student and the College.

CPA 2310 – Carpentry - Interior Systems **5 cr**
Hands-on application and techniques for installation of metal stud and drywall systems, perfa-taping, suspended ceilings, black iron ceilings, moveable partitions and computer floor installation.

CPA 2320 – Carpentry - Welding **5 cr**
Prereq: CPA 2310. This course offers applied instruction in basic welding principles and safety including acetylene burning, cutting and welding. Instruction also includes shielded metal arc-flat, vertical, overhead positions and light gage metal welding.

CPA 2410 – Carpentry - Blueprint Reading **5 cr**
Prereq: CPA 2310. Basics in drafting and scaling techniques, numbering systems, elevations, symbols and abbreviations, detail drawing and viewing skills. Introduction to CAD programs and math reviewed.

CPA 2420 – Carpentry Completion **5 cr**
Prereq: CPA 2410. Advanced application of transits and leveling instruments. Scheduling and estimating costs, MSDS sheets, concrete testing, leadership skills and computer usage.

CPE 2700 – Fund of Digital System Design **4 cr**
Prereq: CS 1600 and PHYS 2200. An introduction to digital systems, Boolean algebra, theory of combinatorial circuits, sequential circuits and finite state machines. Computer aided design (CAD) tools used for schematic capture, simulate, implement and test the circuits.

CPE 2720 – Computer Design **2 cr**
Prereq: EE 2700 or CPE 2700, either can be taken concurrently. A design lab providing hands-on experience in designing and testing small computer and logic based electronic systems using Computer Aided Design (CAD) tools and FPGA system board.

CPI 1110 – Carpenter IA **5 cr**
Prereq: CPI 1470 or Math 0920 or 0950 w/C grade or better, or appropriate Accuplacer score. This course teaches beginning construction principles including: tool safety, math, basic blueprint information plan layout, OSHA site safety and P. P. E. , and First Aid/CPR certifications.

CPI 1120 – Carpenter IB **5 cr**

Prereq: CPI 1110. This course teaches basic concrete principles including: math, tools, basic mixes, basic layout, forming, and finishing.

CPI 1210 – Carpenter IIA **5 cr**

Prereq: CPI 1120. This course teaches basic framing principles including: math, tools, layout from blueprints, floors, walls, roofs, insulation and ventilation.

CPI 1220 – Carpenter IIB **5 cr**

Prereq: CPI 1210. This course teaches basic finish carpentry including: exterior finishes, roofing, window and door openings, stairs, basic cabinetry and counter tops.

CPI 1470 – Math for the Trades (QS) **5 cr**

This is a customized course in applied mathematics for the trades including algebraic and trigonometric functions.

CPI 2000 – Carpentery CO-OP **2-4 cr**

College credit for experience on the job site. Arranged in advance. Requirements are determined by the employer.

CPI 2310 – Carpentery IIIA **5 cr**

Prereq: CPI 1220. Advanced concrete principles including: commercial blueprints, rigging and lifting, raft and metal slabs, shoring and scaffolding, stairs, chemistry and concrete testing, additives, and advanced estimating.

CPI 2320 – Carpenter IIIB **5 cr**

Prereq: CPI 2310. This course teaches advanced framing principles including: scaffold safety for metal stud and drywall work, metal stud framing and layout, installing metal jams and hanging doors fire walls and metal roof decks.

CPI 2410 – Carpenter IVA **5 cr**

Prereq: CPI 2320. This course teaches advanced finish carpentry including: equipment setup, jigs and templates, gluing and clamping techniques, advanced cabinetry, installing locksets, remodeling, restoration and refinishing.

CPI 2420 – Carpentery IVB **5 cr**

Prereq: CPI 2410. This course teaches construction and administrative skills. Computer Assisted Drafting (CAD), building codes, advanced layout, bidding and estimating, material purchasing, and commercial blueprints will be learned.

CPS 1000 – Creative Problem Solving-Pers **3 cr**

Solving problems is inherent to the human experience. When the right solution to a problem isn't clear, the skills of creative problem solving help you to correctly identify the problem, provide alternative ways to generate abundant ideas, and execute on a plan for success. Learn the steps and associated tools that have been proven to work for problems of all types, sizes and levels of complexity.

CPS 1010 – Creative Problem Solving-Team **3 cr**

Teams operate best when ideas are allowed to flourish. When the right solution to a problems isn't clear, the skills of creative problem solving help teams to correctly identify the problem, provide alternative ways to generate abundant ideas, and execute on a plan for success. Learn the steps and associated tools that have been proven to work for problems of all types and sizes.

CS 1600 – Structured Prog. Using C++ **4 cr**

Recommended prereq: MATH 1060 or 1080, either can be taken concurrently. Introductory programming course designed to develop a solid foundation in structured programming by developing computer programs to solve scientific and technical problems. Includes a brief introduction to object oriented programming.

CS 2230 – Database Servers **2 cr**

Recommended prereq: CS 1130. Server Management. Designing schemas, indexes, queries, advanced MySQL features for max performance. Tuning MySQL server, OS, and HW to full potential. High-performance scaling of applications with replication, load balancing, high availability and failover.

CSIS 1010 – Beginning Keyboarding **3 cr**

During the semester, students will: demonstrate proficiency using the computer; learn the keyboard by touch keying at least 25+ net words a minute on 3-minute timed writings; demonstrate correct keyboarding techniques and be evaluated; operate the alphabetic keys, number row keys, and symbol keys of the main keyboard; operate the ten-key numeric keypad; complete special drills and activities.

CSIS 1013 – How to Operate a Computer for Beginning Users **1 cr**

This course is designed for students who have little or no experience with a computer. Upon completion of the course, students will be able to login to the computer, open various programs, understand some basic computer terminology, use an internet search engine, save a file in different locations, and login to the mypage and Canvas systems of SLCC.

CSIS 1015 – Word Processing Applications **1 cr**

Students will learn basic fundamentals of word processing. Students will learn to create and attach their documents to a e-portfolio.

CSIS 1017 – Presentation Applications **1 cr**

Upon completion of this course, students will know the basic fundamentals of Microsoft PowerPoint 2010. Students will learn how to create, format, and display presentations using PowerPoint.

CSIS 1019 – Spreadsheet Applications **2 cr**

In this course, students will use various features and use of current spreadsheet software. Students will learn the syntax, use and application of spreadsheet features/tools through tutorial lessons and application exercise problems.

CSIS 1030 – Foundations of Computer Science **3 cr**

Understand the world of computing that surrounds you: technology's impact on society, hardware, SOHO networking, threats, Google as a verb, ethics/policy, file management, standards, disaster recovery & remote computing.

CSIS 1032 – Introduction to Linux **3 cr**

Recommended Prereq: CSIS 1030. This course covers fundamental Linux skills such as file management and manipulation, text processing, command line use, package management, filesystems, hardward, basic shell scripting and more. Students completing this course will have a solid understanding of basic Linux skills.

CSIS 1050 – Fundamentals of Database Design and Processing **3 cr**

Recommended Prereq: CIS 1020. Course provides introduction & broad overview of concepts & basic skills in current database technologies to prepare students for further studies in database programming, application development & administration/management of database systems.

CSIS 1070 – Living in a Digital World (ID) **3 cr**

Recommended Prereq: CIS 1020 or computer and internet skills.
This course explores 21st Century business tools needed to prepare learners using web based software with the latest digital media and technology in a real world context to share and communicate knowledge creating a social network.

CSIS 1080 – XML and Declarative Programming **3 cr**

Recommended prereq: CIS 1030 or CS 1400 or equivalent programming experience. This course describes how XML is used as both a text based markup language and metalanguages for describing and transmitting data (especially over a network). Other lisp-like metalanguages are also studied for comparison.

CSIS 1110 – Data Cabling Basics **3 cr**

The design, installation, termination, testing and troubleshooting of copper and fiber optic cabling. Media characteristics, TIA/EIA standards, grounding, outlets, jacks, labeling, cable scanners and termination tools are also discussed.

CSIS 1121 – CompTIA® A+ Essentials **3 cr**

Presents necessary competencies for an IT professional, including configuring, troubleshooting, and performing preventative maintenance of PC hardware and operating systems.

CSIS 1122 – Linux System Administration I **3 cr**

This course covers fundamental Linux skills such as file management and manipulation, text processing, command line use, package management, file systems, hardware, and many more. The course also prepares students to take the Linux Professional Institute LPIC-101 exam.

CSIS 1124 – Introduction to Microsoft Windows Desktop **3 cr**

Recommended prerequisite: CSIS 1121 or equivalent knowledge. This course provides students with the an overview of the Microsoft desktop operating system. It explores installation, features, and troubleshoooting.

CSIS 1129 – Comptia® A+ Certification **6 cr**

Presents necessary competencies for an IT professional, including configuring, troubleshooting, & performing preventative maintenance of PC hardware & operating systems.

CSIS 1132 – Linux System Admin I **3 cr**

Recommended Prereq: CSIS 1032 or equivalent knowledge. Students completing this course will have an in-depth knowledge of installation, configuration and maintenance of Linux Systems. Topics include Security, user and group administration, networking, FACLs, LVM, task automation, troubleshooting, and more. This course helps prepare students to take Red Hat RHCSA or LPIC 1 exams.

CSIS 1200 – Introduction to Networking **3 cr**

This course covers how common network protocols are used within a network. Students will learn how to use Wireshark to capture and analyze network traffic such as: ARP, IP, TCP, UDP, ICMP, DNS, DHCP, HTTP, RIP and EIGRP. Subnetting, VLSM, and CIDR are also covered.

CSIS 1250 – Network Routing and Switching I **3 cr**

This course covers material found on the Cisco CCNA Routing and Switching exam as well as the ICND1 exam. Topics covered include: networking fundamentals, connecting to a WAN, basic security and wireless concepts, routing and switching fundamentals, the TCP/IP and OSI models, IP addressing, WAN technologies, configuring IOS devices, static and default routing, and building complex networks.

CSIS 1251 – Network Routing and Switching II **3 cr**

Recommended prereq: CSIS 1250. This course provides students the knowledge and skills required to successfully install, operate, and troubleshoot a small to medium size enterprise network. Topics covered include: VLSM and IPv6 addressing, extending switched networks with VLANs, configuring, verifying and troubleshooting VLANs, the VTP, RSTP, OSPF and EIGRP protocols, configuring IP routes, managing traffic with access lists, establishing point-to- point connections, and establishing WAN connections. The course completes the materials needed to pass the CCNA Routing and Switching exam as well as the Cisco ICND2 exam.

CSIS 1340 – Introduction to Programming **3 cr**

Recommended prereq: CSIS 1030. A first course in programming. This course introduces the fundamental concepts of programming using an object-oriented language such as Java. No prior programming experience is necessary for successful course completion. Topics include: syntax, control structures, arrays and algorithms.

CSIS 1350 – Apps and Applets: an Introduction to Programming **4 cr**

Recommended prereq: CSIS 1030. A first course in computer programming with an emphasis on interactive and graphical components. No prior programming experience is required for this course. Students will create a wide variety of interactive, interesting programs from business applications to game playing. Some software will be developed and simulated as apps in a mobile environment.

CSIS 1400 – Fundamentals of Programming **4 cr**

Recommended prereq: CSIS 1030. Object oriented design using UML: problem statement and glossary, use case diagram and scenarios, activity diagram, role/object mapping, and class diagrams. Introduction to Java: data types, control structures, methods and classes, arrays and introduction to the Java API.

CSIS 1410 – Object-Oriented Programming **4 cr**

Recommended Prereq: CSIS 1400 or CSIS 1350 or CSIS 1340. Essentials of object oriented programming in Java: creating classes, data validation, generics, packages, exception handling, unit testing, inheritance, , polymorphism, file handling, basic Swing, and a subset of the Java API are covered.

CSIS 1430 – Internet & XHTML Fundamentals (ID) **3 cr**

Recommended prereq: CIS 1020. Students should have basic computer skills. Students will learn to use the Internet & create Websites. Topics include basic Internet applications & HTML, XHTML, CSS, XML, JavaScript & layout techniques. The Internet¿s social & legal impacts will also be studied.

CSIS 1440 – Object Oriented Analysis and Design **3 cr**

Recommended Prereq: CSIS 1410. Provides practical experience designing the construction of object-oriented software. Topics include finding classes, identifying attributes and methods, UML, CRC cards, use-case scenarios. Software tools will be used.

CSIS 1520 – Operating Systems **3 cr**

Recommended prereq: CIS 1020. This course introduces the fundamental concepts of operating systems. Command-based & graphical OS¿s are examined. Concepts include: History of OS, Mac OS X, Linux, Windows, and Network OS.

CSIS 1550 – SQL Programming **3 cr**

Recommended Prereq: CIS 1020. The course provides students with a comprehensive understanding and hands-on experience in SQL, a database computer language designed for the retrieval and management of data in relational database management systems (RDBMS).

CSIS 1600 – C++ Programming **4 cr**

Reccomended Prereq or Coreq: MATH 1060. Introductory programming course designed to develop a solid foundation in structured programming by developing computer programs to solve scientific and technical problems. Includes a brief introduction to object oriented programming.

CSIS 1850 – Object-Oriented Programming for Visual Art **2 cr**

Recommended prereq: ART 1800. A course designed to teach the basics of computer programming skills for visual art production. Emphasis will be placed on the design and implementation of complex projects between art and programming applications.

CSIS 2000 – Co-Op Education **1-4 cr**

A supervised work experience in a business, industrial, or government environment related to a computer sciences and information systems major. Credit is awarded for successful completion of specific learning objectives.

CSIS 2010 – Business Computer Proficiency ¿ Spreadsheets and Databases **3 cr**

Recommended Prereq: CIS 1020. Course covers various features and functions of spreadsheet and database software for business applications. Class consists of lectures and demonstrations of how specific software tools can be used and correct formula and function syntax. Students will develop knowledge and skills using spreadsheet and database software as business problem solving tools.

CSIS 2040 – Advanced Spreadsheet Applications **3 cr**

Prereq: CSIS 2010. The course provides significant problem solving experiences in a wide range of business-focused spreadsheet application problems using spreadsheet software.

CSIS 2050 – Advanced Database Applications **3 cr**

Prereq: CSIS 2010. The course provides significant problem solving experiences in a wide range of business-focused database application problems using database software.

CSIS 2060 – Decision Support Systems **3 cr**

Prereq: CSIS 2010. This course provides students with learning activities to apply database and spreadsheet software effectively and efficiently to solve real-world business decision support system (DSS) problems.

CSIS 2110 – Microsoft Server I **3 cr**

Installing and configuring Windows Server services. Topics include roles and features, name resolution, network access, Hyper-V, Active Directory, and Group Policy.

CSIS 2120 – Microsoft Server II **3 cr**

Configure Network Policy Server, NPS Policies, and Network Access Protection. Configure and Manage Active Directory, Group Policy, DNS Zones, DNS Records, VPN, DFS, and File Server Resource Manager.

CSIS 2130 – Microsoft Server III **3 cr**

This course covers configuring and managing high availability including failover clustering, VM movement, and Network load balancing. Other topics include file storage solutions, backup and disaster recovery, DHCP and advanced DNS, Certificate services.

CSIS 2132 – Linux System Admin II **3 cr**

Recommended prereq: CSIS 1132 or equivalent knowledge. Students completing this course will have an in-depth knowledge of installation, configuration and maintenance of Linux Systems. Topics include Security, user and group administration, networking, FACLs, LVM, task automation, troubleshooting, and more. This course helps prepare students to take Red Hat RHCSA or LPIC 1 exams.

CSIS 2310 – Wireless Networking **3 cr**

Recommended prereq: CSIS 1200. This course prepares students to configure wireless networks from layers 1-4 of the OSI model. It includes wireless security, encryption, RF fundamentals, antenna design, Wi-Fi and more. Students setup WLANs and secure them. It uses the CWNA curriculum.

CSIS 2320 – Computer and Network Security **3 cr**

Recommended prereq: CSIS 1200. This course covers network security and maps to the CompTIA Security+ exam. CompTIA Security+ is an international, vendor-neutral certification that demonstrates competency in: Network security, compliance and operational security, threats and vulnerabilities, application, data and host security, access control and identity management, and Cryptography.

CSIS 2330 – Penetration Testing **3 cr**

Recommended prereqs: CSIS 1032 and CSIS 1200. Students learn how to secure computer networks from attacks by learning the tools and tactics employed by hackers to penetrate networks and compromise hosts computers. Topics include Using the Linux distribution Backtrack for pen-testing, network security and ethical hacking.

CSIS 2420 – Algorithms & Data Structures **4 cr**

Recommended Prereq: CSIS 1410. Topics include data structures (stacks, queues, linked lists, heaps, hash tables, trees, graphs); Java Collections framework; algorithmic analysis (Big O, profiling); and common algorithms (recursion, searching, sorting, traversals).

CSIS 2430 – Discrete Structures **4 cr**

Recommended prereq: CSIS 2420. An introduction to discrete mathematics and algebraic structures as applied to computer science. Proposition and logic, finite sets, relations, functions, graph theory, analysis of algorithms and state machines are taught.

CSIS 2440 – Web Programming **3 cr**

Recommended Prereq: CSIS 1430. This course teaches how to program web pages based on the three-teir model. Both client side and server side languages as well as tools such as XHTML, JavaScript, PHP, and My*SQL are taught.

CSIS 2450 – Software Engineering **3 cr**

Recommended prereq: CSIS 1410. Presents concepts, methodology and best-practices necessary to develop large scale software projects. Includes reqts., analysis, design, implementation and testing. Emphasizes current "real world" industry best-practices and tools.

CSIS 2470 – Advanced JavaScript and JSP **3 cr**

Recommended Prereq: CSIS 2440. This course is a continuation of CSIS 2440. It will teach advanced JavaScript techniques and JSP for use in the THREE TIER MODEL. Advanced skills will be taught to allow the student to build complex web sites suitable for E-Commerce.

CSIS 2530 – Intermediate Programming in C# **3 cr**

Recommended Prereq: CSIS 1410. This intermediate programming course focuses on C# and the .NET platform. Syntax, data structures, file i/o, .NET library, XML, class structure, GUI design, and web/database projects will be discussed.

CSIS 2570 – Advanced Java Programming **3 cr**

Recommended Prereq: CSIS 1410. Students will learn skills to design, code, and publish applications using advanced concepts in the Java Programming Language. Topics may include; SQL Database Access, Networks Communications, Multithreading, Parallel Programming, Servlets, Multimedia, Java Beans, Socket Programming and Advanced GUI interfaces using Menus, Toobars, and Dialogs.

CSIS 2630 – Android Application Development **3 cr**

Recommended prereq: CIS 1130 or CS 1410 or equivalent. Students will learn the skills required to design, code, and publish applications for mobile devices running the Android operating system. Topics include IDEs and emulators, Java as it relates to Android, XML layouts and resource files, SQLite, and the Android Market. During the semester, students will code and publish a complete mobile application.

CSIS 2640 – Mobile iOS Application Development **3 cr**

Recommended: CIS 1130 or CS 1410 or equivalent. Students will learn the skills to design, code, and publish applications for mobile devices running Apple's iOS operating system. Current devices include the iPhone and iPad. Topics include Apple's IDE and iOS simulator, the Objective C programming language, memory management, wireless communication, and the iTunes market.

CSIS 2700 – Projects for Industry **3 cr**

Recommended Prereq: CSIS 2570. Students will implement skills learned in previous CSIS design and programming classes and gain real world experience through service learning. Each class will work together as a team to design and program and computer system that meets the needs of an approved client from the community.

CSIS 2810 – Computer Architecture **4 cr**

Recommended prereq: CSIS 1410. Computer architecture explores the language of the computer, computer arithmetic, assessing & understanding performance, datapath and control, pipelining, memory hierarchies, and interfacing processors and peripherals. The course emphasizes how these topics influence the physical and functional relationships between computer hardware and software.

CSIS 2900 – Current Topics in Computer Sciences and Information Systems **1-4 cr**

This course covers current topics in computer science that meet student needs and industry demands.

CTEL 1010 – Leadership & Teambuilding (HR) **3 cr**

Students will discover and develop their strengths in leadership and teambuilding. Career-building strategies will be explored. Students will develop human relations skills that will help them to thrive in a diverse society.

CTEL 1020 – Career Speech Skills (CM) **3 cr**

Students will build their speaking, listening, non-verbal and visual presentation skills for industry applications. Students will critically plan and evaluate messages for diverse audiences using sound theoretical models.

CTEL 1030 – Leadership Lab **1 cr**

Prepares learners to compete in leadership events sponsored by national student leadership organizations. May also be taken for self-improvement.

DANC 1010 – Dance and Culture (FA,DV) **3 cr**

An introduction to dance as a means of cultural expression. Multi-cultural dance in America is explored, with analysis of how divergent traditions have survived in spite of social and cultural pressures. No dance experience required.

DANC 1090 – Bridging the Arts (FA) **3 cr**
Course examines the interconnectedness of art, dance, music and theatre by investigating the artistic elements and common threads within the creative processes to develop an informed appreciation for one's own artistic values.

DANC 1100 – Introduction to Ballet I (FA) **3 cr**
An introduction to basic ballet movement, technique, theory, history and terminology. Reading, writing, and concert attendance are part of this course.

DANC 1110 – Ballet II (LW) **2 cr**
Recommended prereq: DANC 1100 or instructor approval. The second semester study of ballet technique, theory, and terminology. Emphasis is on learning and applying kinesiological basics for lifelong participation in dance.

DANC 1200 – Intro to Modern Dance I (FA) **3 cr**
Intro to modern dance movement, technique, theory and history. Basic dance elements of time, space, shape, and energy are introduced with emphasis on locomotor skills and movement expression. Reading, writing, and concert attendance required.

DANC 1210 – Modern Dance II (LW) **2 cr**
Recommended prereq: DANC 1200 or instructor approval. The second semester study of modern dance technique, theory, and terminology. Emphasis is on learning and applying kinesiological basics for lifelong participation in dance.

DANC 1500 – Intro to Jazz Dance I (FA) **3 cr**
An introduction to jazz movement, technique, terminology and history. Classical and contemporary jazz rhythm and style are explored. Reading, writing, and concert attendance are part of this course.

DANC 1510 – Jazz Dance II (LW) **2 cr**
Recommended prereq: DANC 1500 or instructor approval. The second semester study of jazz dance technique, theory, and terminology. Emphasis is on learning and applying kinesiological basics for lifelong participation in dance.

DANC 1580 – Intro to Tap Dance I (FA) **3 cr**
An introduction to the fundamental technical skills, terminology, and history of tap dance. Rhythm, coordination and precision of sound are emphasized. Reading, writing, and concert attendance are part of this course.

DANC 1590 – Tap Dance II (LW) **2 cr**
Recommended prereq: DANC 1580 or instructor approval. The second semester study of tap dance technique, theory, and terminology. Emphasis is on learning and applying kinesiological basics for lifelong participation in dance.

DANC 1700 – Dance Improv/Choreograhpy I **1 cr**
Recommended prereq: DANC 1200 or instructor approval. Guided exploration in the elements of dance for the creative development of personal movement repertoire, spontaneous group interaction and choreographic skills.

DANC 1800 – Dance Company **1 cr**
Prereq: By audition. Offers experience and opportunity in performance, choreography, and production for the enjoyment and creative expression of the members, and for the enrichment and entertainment of the College and community.

DANC 1900 – Special Projects **1-2 cr**
Prereq: Department approval. Students plan their areas of study, choreography, or performance with the instructor on an individual basis.

DANC 2100 – Ballet III **2 cr**
Recommended prereq: DANC 1110 or instructor approval. The third semester study of ballet technique, theory, and terminology.

DANC 2110 – Ballet IV **2 cr**
Recommended Prereq: DANC 2100 or instructor approval. The fourth semester study of ballet technique, theory, and terminology.

DANC 2200 – Modern Dance III **2 cr**
Recommended prereq: DANC 1210 or instructor approval. This is the third semester study of modern dance movement, technique, and theory.

DANC 2210 – Modern Dance IV **2 cr**
Recommended Prereq: DANC 2200 or instructor approval. This is the fourth semester study of modern dance movement, technique and theory.

DANC 2500 – Jazz Dance III **2 cr**
Recommended Prereq: DANC 1510 or instructor approval. This is the third semester study of jazz movement, technique, and terminology.

DANC 2510 – Jazz Dance IV **2 cr**
Recommended prereq: DANC 2500 or instructor approval. This is the fourth semester study of jazz movement, technique, and terminology.

DANC 2580 – Tap Dance III **2 cr**
Recommended prereq: DANC 1590 or instructor approval. The third semester study of tap dance technique, theory, rhythms and terminology. Emphases is on increasingly complex rhythms, time steps and movement phrases.

DANC 2700 – Dance Improv/Choreography II **1 cr**
Recommended prereq: DANC 1700. This is the second semester exploration of the elements of dance for the creative development of personal and group movement repertoire and choreographic skills.

DANC 2800 – Dance Company II **1 cr**
Prereq: By audition. Second year experience and opportunity in performance, choreography, and production for the enjoyment and creative expression of the members, and for the enrichment and entertainment of the college and community.

DANC 2900 – Special Topics **1-3 cr**
Prereq: Department approval. Students will learn specific areas of study in current trends within the dance field.

DANC 2990 – Performing Arts Connection **2 cr**
Prereq: Department approval. This is a collaboration of dance, music, and/or theatre. Students will create individual works to be performed in the Performing Arts Showcase.

DE 0910 – Language Arts for the Deaf **6 cr**
Year developmental course teaches English through American Sign Language. Strengthens ASL skills as well. Vocabulary, idioms, figurative language, grammar, critical thinking, study skills, reading, writing.

DE 0950 – College Vocabulary **3 cr**
Prereq: 72-83 score on the LOEP test or Accuplacer placement into RDG/ WRTG 0900 or higher. Students will increase their academic vocabulary by studying and learning how to proficiently use over 200 general, technical, academic, and professional English words and phrases.

DE 0990 – Life Skills **2 cr**
This class teaches students the basic fundamentals of cooking, clothing care, grocery shopping, personal finance, housekeeping, basic home care, basic car care, and roommate survival skills.

DH 1050 – Dental Radiology **2 cr**

Prereq: Admission into program. Coreq: DH1060. Study of physical behavior, biological effects, methods of control, safety and techniques for exposing, processing and mounting radiographs. Included is interpretation, recognition and identification of significant findings.

DH 1060 – Dental Radiology Lab **1 cr**

Prereq: Admission into program. Laboratory experience in dental radiography procedures and techniques. Treatment planning, exposure, interpretation and evaluation of dental radiographs with emphasis on client management techniques and their application.

DH 1100 – Dental Hygiene Theory I **3 cr**

Prereq: Admission into program. Coreq: DH 1110. Introductory course to practice of dental hygiene. Students learn principles and theory of infection control, medical, dental, extra/intra-oral assessments, management of medical emergencies, current instrumentation and operatory management.

DH 1110 – Clinical Dental Hygiene I **2 cr**

Prereq: Admission into program. Coreq: DH 1100. Students will demonstrate basic dental hygiene skills and procedures. Skill development is attained through practice sessions and performance evaluations.

DH 1140 – Dental Materials **1 cr**

Prereq: DH 1050, DH 1060, DH 1100, DH 1110, DH 1330, DH 1340, and DH 1350. Coreq: DH1150. Study of chemical and physical composition and uses of dental materials. Emphasis on effects of various materials in the oral environment and why specific materials are used. There is an accompanying lab.

DH 1150 – Dental Materials Lab **1 cr**

Prereq: Acceptance into the Dental Hygiene Program, DH 1100, DH 1110, DH 1050, DH 1060, DH 1330, and DH 1340. Coreq: DH1140. Students receive the opportunity to develop manipulative skills and practice procedures with various materials used in dentistry and dental hygiene.

DH 1330 – Head and Neck Anatomy **2 cr**

Prereq: Admission into program. This course covers the study of head, neck and oral anatomy, with emphasis on terminology. Lab is included.

DH 1340 – Dental Anatomy **1 cr**

Prereq: Admission into program. This is the comprehensive presentation of structures of the oral cavity, including oral anatomy, tooth development anatomy and occlusion. Lab is included.

DH 1350 – Dental Embryology/Histology **1 cr**

Prereq: Admission into program. This is a comprehensive presentation of embryonic, fetal and postnatal development of tissues and structures of the head and oral cavity.

DH 1400 – Dental Hygiene Theory II **3 cr**

Prereq: DH 1100 and DH 1110. Coreq: DH1410.Continuance of DH Theory I. Comprehensive patient care will be required in various problem solving and decision making skills involving the assessment, planning, implementation and evaluation of direct care to the public.

DH 1410 – Clinical Dental Hygiene II **3 cr**

Prereq: DH 1100 and DH 1110. Coreq: DH1400.Delivery of preventative and therapeutic services. Practical application from didactic information. Professionalism, client and operating safety, instrument competency.

DH 1540 – Pharmacology **3 cr**

Prereq: DH 1100. Course emphasizes pharmacodynamics of drug action, modes of administration, biotransformation, excretion, drug side effects and interactions. Focus on impact various medications have in dental and dental hygiene treatment.

DH 1640 – Compromised Patient Spcl Needs **2 cr**

Prereq: DH 1100. Course offers in-depth study of problems, unusual health conditions and/or factors that may complicate routine dental hygiene care.

DH 2050 – General and Oral Pathology **3 cr**

Prereq: DH 1400 and DH 1640. Course focuses on fundamentals of oral pathology and disease processes. An overview of oral pathology emphasizes recognition and identification of pathologic conditions within the oral cavity.

DH 2200 – Dental Hygiene Theory III **3 cr**

Prereq: DH 1400. Coreq: DH2210. Course of study in theory and practice of dental hygiene. Focus will be on advanced instrumentation, implementation of advanced dental hygiene care, case studies and table clinics.

DH 2210 – Clinical Dental Hygiene III **4 cr**

Prereq: DH 1410. Coreq: DH2200. Continued application of preventive and therapeutic service to the public. Advanced aspects of hygiene care are applied through learning sessions/performance evaluations for local anesthesia, nitrous oxide, ultrasonic/sonic and case management.

DH 2220 – Community Dental Health **3 cr**

Prereq: DH 1640. Principles and practice of public health methods and plans are taught examining biostatistics and epidemiology. Students design, implement and evaluate programs with community focus.

DH 2340 – Local Anesthesia **2 cr**

Prereq: DH 1540. Coreq: DH 2341. Pain control in the dental office setting including administration of local anesthetic/nitrous oxide and anxiety management. Completion of this course qualifies students to take WREB for local area anesthesia. Lab is included.

DH 2341 – Local Anesthesia Lab **1 cr**

Prereq: DH 1540. Coreq: DH 2340. Demonstration and administration of all local regional blocks are experienced in a supervised lab setting. Minimum competence is verified through successful completion of proficiency evaluations.

DH 2450 – Periodontology I **2 cr**

Prereq: DH 1410 and DH 1640. Anatomy/physiology, histopathology, microbiology specific to dental disease, etiology and clinical features of gingival/ periodontal infections are taught. Emphasis is placed on recognition and treatment planning for periodontal clients.

DH 2600 – Dental Hygiene Theory IV **3 cr**

Prereq: DH 2200. Coreq: DH2610. This course offers advanced techniques for treatment of periodontal disease including various modes of treatment and wound healing. Emphasis is placed on the role of the dental hygienist as a periodontal co-therapist. This course continues the study of dental hygiene treatment of patients with special needs using case-based learning tools.

DH 2610 – Clinical Dental Hygiene IV **5 cr**

Prereq: DH 2210. Coreq: DH2600. Clinical expertise is refined. Time management and patient care are emphasized, preparing students for clinical licensing board examinations.

DH 2800 – Practice Management **2 cr**

Prerequisite: DH 2200. This course provides a study of principles and procedures related to management of the dental practice; the philosophy of dental practice and the business of dentistry. Emphasis is placed on dental jurisprudence and ethical issues, and applied interpersonal communication both written and oral. Students develop skills in interviewing, writing letters of application and resumes.

DISP 1500 – Dispatch Applications **7 cr**

Prereq: PILT 1100, 1400, & 2050. May be taken concurrently with PILT 1400 and PILT 2050. Course will cover applicable federal regulations, aircraft flight & general operating manuals, performance & systems, and emergency procedures as it applies to dispatching. Students will apply proper flight dispatch applications under FAR Part 121 from flight prep to departure w/ flight following & arrival.

DMS 1010 – Patient Care **2 cr**

Prereq: Admission to DMS program. This online course prepares students to provide basic care to patients. Includes patient interactions, history taking, transfer techniques, vitals signs and oxygen, infection control, aseptic/nonaseptic techniques, ethics, medial law, etc.

DMS 1020 – Abdominal Sonography **4 cr**

Prereq: Admission to DMS program. Clinical aspects of abdominal sonography. Emphasizes pertinent laboratory tests, other imaging modalities and physical signs and symptoms of disease with focus on performing and interpreting abdominal exams.

DMS 1030 – Physics/Instrumentation **3 cr**

Prereq: Admission to DMS program. Fundamental knowledge of physical principles and instrumentation of diagnostic ultrasound. Explains how diagnostic ultrasound works and helps student properly handle artifacts, scan safely and evaluate instruments.

DMS 1040 – Ultrasound Lab **2 cr**

Prereq: Admission to DMS program. Compliments didactic course instruction. Students will observe scanning equipment, techniques, and have a hands-on opportunity to perform basic skills necessary of a sonographer.

DMS 1110 – OB/GYN **4 cr**

Prereq: DMS 1030. Comprehensive discussion of obstetrical and gynecologic diagnostic ultrasound. Provides information of anatomy, pathophysiology, sonographic theory, and sonographic technique.

DMS 1120 – Pathophysiology **4 cr**

Prereq: DMS 1020. Basics of pathophysiology Includes most common diseases for each body system, including study of the cell, underlying processes of disease and a systematic survey of disease within body systems.

DMS 1130 – Clinical I **4 cr**

Prereq: DMS 1040. Students attend a clinical setting 24 hours each week. Emphasis is on professional qualities required of a sonographer and the basics of performing sonographic examinations. Clinical rotation schedules will be determined by the clinical site.

DMS 1210 – Sectional Anatomy **3 cr**

Prereq: DMS 1110. This course is taught primarily online. Students access a website for course instructions, lectures, assignments and materials, and to communicate with the instructor and with other students.

DMS 1230 – Clinical II **4 cr**

Prereq: DMS 1130. Students attend a clinical setting 24 hours each week. Emphasis is on expanding the scanning proficiency and range of the student. Professional growth is continued. Activities are guided by a competency based system.

DMS 2010 – Vascular Ultrasound **3 cr**

Prereq: DMS 1210. Principles and practice of vascular ultrasound, including basic theory and instrumentation. Understanding the function of scanner controls to obtain optimal images.

DMS 2030 – Clinical III **5 cr**

Prereq: DMS 1230. Students attend a clinical setting 32 hours each week. Emphasis is on expanding the scanning proficiency and range of the student. Clinical rotation schedules will be determined by the clinical site.

DMS 2040 – Ethics in Healthcare **4 cr**

This online course will examine ethical dilemmas facing clinicians and non clinician health care workers. Students will cover a wide variety of issues including the ethics and morality behind patient care, and patient confidentiality.

DMS 2110 – Fetal Anomalies **4 cr**

Prereq: DMS 2010.

DMS 2130 – Clinical IV **5 cr**

Prereq: DMS 2030. Students attend a clinical setting 32 hours each week. Emphasis is on expanding the scanning proficiency and range of the student. Professional growth is continued. Activities are guided by a competency based system.

DMS 2210 – Comp. Sonography **3 cr**

Prereq: DMS 2110. Review of material learned in all previous program courses. Students work in groups to organize and re-examine all course content.

DMS 2230 – Clinical V **4 cr**

Prereq: DMS 2130. Students attend a clinical setting 24 hours each week.Students gain the skills necessary to enter the workforce. Emphasis is on efficiency and accuracy. Activities are guided by a competency based system.

DST 1010 – Safety and Basic Shop Skills **1 cr**

This course covers the introduction to in basic shop safety and basic shop skills. It should give you, the student, the background and working knowledge of safety that is required by industry.

DST 1045 – Basic Diesel **4 cr**

Theory and practical experience in disassembly, inspection, and reassembly of both 2 and 4 cycle diesel engines; subassemblies for different engine systems; running and tuning up engines from different manufacturers. Safety will be stressed.

DST 1065 – Basic Engine Performance **4 cr**

Theory and practical experience in troubleshooting and repair of both 2 and 4 cycle diesel engines. Parts nomenclature, hydro mechanical fuel-injection system design and operation, and engine maintenance will also be covered. Safety will be stressed.

DST 1145 – P M Brakes **4 cr**

Theory and practical experience in preventive maintenance and servicing of heavy duty trucks and equipment. A. B. C. and D. inspections will be included. Safety procedures and shop practices will be stressed.

DST 1165 – P M Electrical **4 cr**

Theory and practical experience in preventive maintenance and servicing of heavy-duty trucks and equipment. Includes batteries and electrical systems, driveline, chassis and suspension. Shop safety procedures and practices will be stressed.

DST 1199 – Specialty Training HDM **1-7 cr**

This is a course designed to help students obtain specialized training specific to industry. It is taught as requested by industry.

DST 1245 – Drivetrains Fluid Drives **4 cr**

Classroom instruction and practical laboratory experience in torque converter operation and troubleshooting, power shift, and automatic transmission design, operation and troubleshooting. Electronically controlled transmissions and diagnostics will be covered.

DST 1265 – Drivetrains Gear Drives **4 cr**

Classroom instruction and practical laboratory experience in clutch operation and adjusting. Manual transmissions, Twin Countershaft transmission both manual and automated. Differential theory and operation, and final drives. We will also cover track type undercarriages.

DST 1299 – Specialty Training HDM **1-7 cr**

To help students obtain specialized training specific to industry. Students must register for 1-7 credits in the DST program. It is taught as requested by industry.

DST 2045 – Advanced Engines & Electronics **4 cr**

Prereq: DST 1045 and DST 1065. Practical experience in diesel engine fuel systems operation, troubleshooting, repair, and maintenance for both 2 and 4 cycle engines. Electronic fuel injection theory, operation and troubleshooting will be covered, as well as computer based diagnostics.

DST 2065 – Advanced Engines & Electronics **4 cr**

Prereq: DST 1045, DST 1065, and DST 2045. Classroom instruction and practical laboratory experience in electronic fuel injection, engine performance, and exhaust emissions. Troubleshooting, repair, and maintenance of both 2 and 4 cycle engines will be demonstrated by instructors and experienced by students.

DST 2145 – H. D. Hydraulic Controls **4 cr**

Theory and practical experience in principals of fluid power transmission, force, energy, pumps, valves, cylinders, and motors as applied to mobile hydraulic systems. Shop procedures and safety will be stressed.

DST 2165 – H.D. Hydraulic Functions **4 cr**

Theory and practical experience in principles of fluid power transmission of force and energy, interactive C D training, electronic controls, Air conditioning functions and principles. Shop procedures and safety will be stressed.

DST 2245 – H. D. Elec. Circuits **4 cr**

Theory and practical experience in basic electrical circuits, principals of magnetism, charging and cranking systems, maintenance, testing, troubleshooting of all electrical applications. Safety will be stressed.

DST 2265 – H.D. Electrical Lighting **4 cr**

Theory and practical experience in basic electrical fundamentals, ignition circuits, lighting and accessories, maintenance, computer diagnostics, testing troubleshooting of all electrical applications. Safety will be stressed.

DSTA 1100 – Safety and Basic Engines **2 cr**

Coreq: DSTA 1111. Instruction in safety, theory, operation, troubleshooting and repair maintenance. Includes part nomenclature for both 2-cycle and 4-cycle diesel engines as well as tear down and rebuilding of these engines.

DSTA 1111 – Safety and Basic Engines Lab **4 cr**

Coreq: DSTA 1100. Practical experience in safety, theory, operation, troubleshooting and repair maintenance and parts nomenclature of both the 2-cycle and 4-cycle diesel engines.

DSTA 1120 – Preventive Maintenance **2 cr**

Prereq: DSTA 1100 and DSTA 1111. Coreq: DSTA 1121. Classroom instruction in preventive maintenance and servicing of heavy duty trucks and equipment. Including general PM inspections A, B, C, and D, truck systems servicing and shop safety procedures.

DSTA 1121 – Preventive Maintenance Lab **4 cr**

Prereq: DSTA 1100 and DSTA 1111. Coreq: DSTA 1120. Practical performance based experience in PM servicing of heavy duty trucks and equipment, including PM inspections, proper servicing procedures, troubleshooting and repair of heavy duty systems. Shop safety.

DSTA 1130 – Heavy-Duty Drivetrains **2 cr**

Prereq: DSTA 1120 and DSTA 1121. Coreq: DSTA 1131. Classroom instruction in clutch, manual transmission, differential, torque converter, automatic transmission, final drive, theory and operation will be covered. Track type undercarriage will also be covered.

DSTA 1131 – Heavy-Duty Drivetrains Lab **4 cr**

Prereq: DSTA 1120 and DSTA 1121. Coreq: DSTA 1130. Clutch operation and adjustment, manual transmission repair, differential diagnosis and repair, torque converter overhaul, automatic transmission diagnosis overhaul, testing, undercarriage maintenance and adjustments.

DSTA 1200 – Advanced Engines & Electronics **2 cr**

Prereq: DSTA 1130 and DSTA 1131. Coreq: DSTA 1211. Classroom instruction in tune-up, trouble-shooting, and maintenance of 2-cycle and 4-cycle diesel engines with emphasis on all systems.

DSTA 1211 – Adv. Engine & Electronics Lab **4 cr**

Prereq: DSTA 1130 and DSTA 1131. Coreq: DSTA 1200. Stresses lab application in the tune-up, trouble-shooting maintenance of 2-cycle and 4-cycle diesel engines with emphasis on all systems, including operation, diagnostics, repair of electronic and computerized-engine controls.

DSTA 1220 – Heavy-Duty Hydraulics **2 cr**

Prereq: DSTA 1200 and DSTA 1211. Coreq: DSTA 1221. Classroom instruction in fundamentals and principles of fluid power and the transmission of force and energy, using pumps, actuators, valves, accumulators, cylinders, and motors as applied to mobile hydraulics systems. Shop safety.

DSTA 1221 – Heavy-Duty Hydraulics Lab **4 cr**

Prereq: DSTA 1200 and DSTA 1211. Coreq: DSTA 1220. Performance based practical experience in mobile hydraulic systems, including proper servicing procedures, diagnosis, troubleshooting repair and testing of hydraulic components. Using basic fundamentals and principles. Shop safety.

DSTA 1230 – Heavy-Duty Electrical **2 cr**
Prereq: DSTA 1220 and DSTA 1221. Coreq: DSTA 1231. Classroom instruction in basic electronics, magnetism, electronic controls, operation, maintenance, testing, troubleshooting and repair of all electrical units. Basic operation, maintenance and repair of air conditioning units.

DSTA 1231 – Heavy-Duty Electrical Lab **4 cr**
Prereq: DSTA 1220 and DSTA 1221. Coreq: DSTA 1230. Practical experience in operation, maintenance, testing troubleshooting, and repair of electronic and electrical units in the heavy duty field. Basic operation, maintenance, and repair of air conditioning units.

DSTA 1299 – Diesel Systems Special Studies **1-7 cr**
Prereq: Instructor approval. To help students obtain specialized training specific to industry. Students must register for 1-7 credits in the DSTA program. It is taught as requested by industry.

DSTA 2000 – Heavy Duty Repair CO-OP **2-4 cr**
College credit for experience on the job site. Arranged in advance. Requirements are determined by the employer.

ECON 1010 – Economics as Soc. Science (SS) **3 cr**
Studies the role of economics in understanding social problems. It is designed as a general information course for all individuals despite major, and satisfies the social science component of general education.

ECON 1400 – Economic History of Am. Labor **3 cr**
Survey of the development of the labor movement and unions in America. Includes profile of working class, early trade unions, the rise of industrial trade unions, AFL-CIO, and contemporary labor developments and issues.

ECON 1600 – Intro to Economic Systems (SS) **3 cr**
Educates students in economic systems such as capitalism, socialism, and mixed economic systems. Basic economic concepts will be used to understand and analyze social, political, and cultural influences on such systems.

ECON 1740 – Economic History of U.S. (AI) **3 cr**
Prereq: RDG 0990 w/C grade or better, or appropriate Accuplacer score. Explores the historical foundations of American economic growth and development from colonial times to the present. The study of economic history provides scholars the opportunity to understand and analyze, from a historical perspective, the impact of institutional and structural changes within the American economy.

ECON 2010 – Principles of Microeconomics (SS) 3 cr
This course studies consumer and producer behavior, and the role specific economic units play in market development. Elasticity, consumer choice, production costs, and profits are examined relative to different levels of competition.

ECON 2020 – Principles of Macroeconomics (SS) 3 cr
This course studies the economy as a whole. Concepts of scarcity, Aggregate demand and Aggregate supply, output and income, growth, inflation, unemployment, interest rates, money and banking are all examined. Current events are used as examples.

ECON 2100 – Labor Economics 3 cr
Prereq: ECON 2010. Studies the economics of the American labor market, wage theory, labor mobility and migration, human resource development, history and role of unions, collective bargaining, and employment data studies.

ECON 2200 – Money & Banking 3 cr
This course examines financial institutions and markets and their impact on the economy. This course explores such institutions from the perspective of monetary economic theory, practice, and policy.

ECON 2250 – Environmental Economics 3 cr
Students will evaluate costs of environmental degradation and determine their point of impact. They will recommend best economic measures for minimizing costs to society. Economic sustainability will be considered.

ECON 2400 – International Econ/Finance 3 cr
Prereq: ECON 2010 or ECON 2020, either can be taken concurrently. This course is on economic topics pertaining to international trade and finance. This course develops theory, practice and the policy in the global context.

ECON 2990 – Special Studies in Economics 1-3 cr
Prereq: Instructor approval. Under the supervision of the instructor, students develop and follow an individualized curriculum.

EDDT 1010 – Technical Drafting I 3 cr
Lab practice in board drafting techniques, use of drafting tools, lettering, geometric construction, orthographic and isometric sketching, projection techniques, section views, and dimensioning standards.

EDDT 1040 – Introduction to AutoCAD **3 cr**

Basic skills using AutoCad for drawing applications are taught. The course includes: draw and modify commands, geometric construction, dimensions, templates, blocks and libraries, hatching, layers, scales, and plotting.

EDDT 1100 – Advanced AutoCAD **2 cr**

Prereq: EDDT 1040. Advanced skills using AutoCAD. Includes: introduction to detail and assembly drawings, advanced geometric construction, isometric drawing, auxiliary views, advanced dimensioning, dynamic blocks with attributes, and AutoCAD 3D Modeling.

EDDT 1200 – Technical Drafting II **4 cr**

Prereq: EDDT 1010 and EDDT 1100 or both concurrently. Overview of technical drafting disciplines: mechanical details and assemblies, fits and tolerances, flat pattern layout, electronic diagrams, structural steel including welds, civil, and piping. Students will create industry design and working drawings.

EDDT 1420 – Basic MicroStation **2 cr**

This course teaches drafting skills using MicroStation CAD software and includes: geometric construction, drawing and modification commands, dimensioning, cell libraries, plots, working units, patterning, seed files, and reference files.

EDDT 2160 – Statics and Strength of Matls **5 cr**

Prereq: MATH 1060 or 1080 or appropriate Accuplacer score. Focuses on the fundamentals of material statics and strength, theory of forces, moments, and deflection, stresses, centroids and moment of Inertia, principles of design, problem-solving and application.

EDDT 2180 – Electronics Drafting **3 cr**

Prereq: EDDT 1100. Drafting and design techniques used in the electronics industry including: electronics symbols, schematic and logic diagrams, electro-mechanical design, printed circuit board design, artwork layout, and related industry standards. Students will be using PADS which is a circuit board layout software package and AutoCAD.

EDDT 2190 – Civil Drafting **2 cr**

Prereq: EDDT 1040 and EDDT 1420. The study of the various types of civil drafting: plats, contour maps, profiles, road design, and site layout. Includes mapping terminology, symbols and standard formats. Taught using MicroStation and AutoCAD Civil 3D.

EDDT 2240 – Steel Detailing **3 cr**

Prereq: EDDT 1040 and MATH 1010. Use of the AISC manual to calculate stresses and design simple steel structures with welded and bolted connections. Layouts and drawings of details required for fabrication using appropriate industry standards and formats.

EDDT 2340 – Manufacturing Processes **2 cr**

Prereq: EDDT 1040 or concurrently. Coreq: EDDT 2350. A broad analysis of industrial materials and processes used in manufacturing as related to design. Topics include: metal forming, casting, machining, non-metals, finishing and assembly, and the principles of material behavior.

EDDT 2350 – Manufacturing Processes Lab **1 cr**

Coreq: EDDT 2340. Lab practice in the processes used to change material shape and condition for industrial use and the principles of material behavior. Topics include: metal forming, casting, injection molding, heat treatment, equipment selection, design criteria, shop and safety procedures.

EDDT 2360 – Pipe Drafting **2 cr**

Prereq: EDDT 1040 or EDDT 1420. This is specialized training in the drafting principles for piping layouts and drawings. It includes: symbols, fittings, controls, parts specifications, diagrams, and detail drawings using appropriate industry standards and formats.

EDDT 2420 – Advanced MicroStation **2 cr**

Prereq: EDDT 1420. Advanced techniques with MicroStation software mainly as it is used in civil design disciplines. Topics include customization , drawing management and advanced detailing tools.

EDDT 2540 – Geometric Dimension &Tolerance **2 cr**

Prereq: EDDT 1040. Study of the application and interpretation of geometric dimensioning and tolerancing per the latest ASME Y 14. 5 standard.

EDDT 2600 – Modeling with SolidWorks **3 cr**

Prereq: EDDT 1040 or CAD experience. Use of SolidWorks software in the creation of 3D models to aid in the analysis and design of mechanical parts and assemblies. Topics include construction, extraction of engineering data, assemblies and mates, and related drawings.

EDDT 2700 – Advanced SolidWorks **2 cr**

Prereq: EDDT 2600 or equivalent experience. This course covers advanced techniques in solid modeling using SolidWorks and PhotoView for solving complex design problems. SimulationXpress for design and stress analysis will also be taught.

EDDT 2710 – AutoDesk Inventor 3D Modeling **2 cr**

Prereq: AutoCAD experience. Solid modeling with AutoDesk Inventor will be taught. Topics include sketch planes, part construction, extraction of engineering data, assemblies and mating parts, parametric design and related drawings. The Design Center will also be used.

EDDT 2990 – Special Topics **1-5 cr**

Prereq: Instructor approval. This course is designed so the student can work on special individualized projects under the supervision of the instructor.

EDU 1010 – Orientation to Education **3 cr**

Teaching as a career - challenges and rewards, history, philosophies, social issues, legal issues, job availability, and governance. Preparation for acceptance into a teacher education program. Field experience required.

EDU 1020 – Essentials College Study (ID) **3 cr**

Orientation to prepare students for college study. Greater
knowledge & skills to assist in academic objectives. Nature of adult learner, planning, testing, communication, study, library use, issues. Service learning component likely.

EDU 1400 – Study of Disabilities (SS,DV) **3 cr**

Examines social dynamic between non-disabled majority and disabled minority cultural groups. Historical, ethical, legal, and attitudinal perspectives relating to disability issues will be addressed. Course may be taught with a Service Learning component.

EDU 1900 – Individual Studies in Educa. **1-3 cr**

Prereq: Instructor approval. Students plan areas of study, service learning or travel and work with an instructor on an individual basis. The course may involve readings, discussion, research, Service Learning, intensive writing or other skills deemed appropriate.

EDU 2000 – CO-OP Education **1-2 cr**

Prereq: FHS 1500 and EDU 1010. Supervised work experience in a school or other equivalent setting. Requires the ability to apply teaching/learning theory while working with children. Credit is awarded for successful completion of specific learning objectives.

EDU 2010 – Intro. to Special Education **3 cr**

Historical overview of legal, ethical, and social issues related to a free, appropriate education. Levels of inclusion. Developmentally Appropriate Practice (DAP). Individualized Education Programs (IEPs). Community resources. Working with parents and specialists.

EDU 2011 – Inclusive Classrooms **3 cr**

Prospective general and special educators develop an understanding of the educational needs of children with disabilities and study a variety of instructional and organizational techniques for an inclusive classroom.

EDU 2030 – Research/Inquiry in Education **3 cr**

Examines the general principles and methods used to explain social phenomena. Topics include research design, measurement, sampling, experiments, surveys, data analysis, association and causation, ethics, and the uses of research.

EDU 2110 – Ed Psych Learning & Literacy **3 cr**
Development, application, and assessment of learning; how theory guides classroom instruction; how assessments determine instructional effectiveness.

EDU 2140 – Technology in the Classroom **2 cr**
Examines the fundamental concepts, knowledge, skills, and attitudes for technology in the elementary classroom.

EDU 2150 – Intro to Multicultural Ed. **3 cr**
Students explore historical and theoretical aspects of diversity in elementary and secondary classrooms. Students learn how to create a climate for understanding and acceptance.

EDU 2410 – Educational Law and Policy **3 cr**
Introduces laws and policies affecting professional educators in elementary and secondary schools.

EDU 2800 – Inst., Tech., Assess., & Plan **3 cr**
Prereq: ARL candidates only. The teacher will learn to use a variety of instructional strategies to encourage students development of critical thinking, problem solving and performance skills. Teachers will create an electronic portfolio.
The Text book that will be used: "The Art and Science of Teaching" by Robert J. Marzano.

EDU 2820 – Creating A Learning Environmnt **3 cr**
Prereq: ARL candidates only. The teacher will learn how children learn and develop and will learn to provide learning opportunities that support their intellectual, social, and personal development.

EDU 2840 – Literacy Strategies **3 cr**
Prereq: ARL candidates only. This course will focus on fundamentals of reading comprehension of students and decisions teachers make concerning methods, materials, and procedures based on those fundamentals.

EDU 2860 – Survey/Learn.-Teach. Div. Pop. **3 cr**
Prereq: ARL candidates only. This course will explore the rationale, concepts, theory, and practice of teaching diverse populations from cultural, linguistic and socio-economic diverse backgrounds in pluralistic schools and societies.

EDU 2900 – Special Topics in Education **1-3 cr**
An in-depth study of a particular topic in elementary or secondary education. The course may involve readings, discussion, research, Service Learning, intensive writing, or other skills deemed appropriate.

EE 1010 – Introduction To Laboratory Instruments And Methods 1 cr

This course is an introduction to Electrical Engineering and Electrical Engineering Technology. The use of electrical lab equipment is used to construct and test electrical systems. Students will be exposed to career paths in both electrical engineering and electrical engineering technology and the education pathways for each.

EE 1020 – Elect. Eng. Problem w/Matlab 1 cr

Prereq: MATH 1060 or 1080, either can be taken concurrently. EE introduction using MatLab Design of prototype communications systems using script and function, files, math functions, commands for array construction and manipulation, string expressions, logical operators, control flow and graphics.

EE 1030 – UNIX for ELECT Engr Students 1 cr

Topics for this course include the X windows systems, UNIX shell commands, file system issues, text editing with Emacs, accessing the World Wide Web with Netscape, and electronic mail.

EE 1270 – Intro to Electrical Circuits I 4 cr

Prereq: MATH 1210, PHYS 2210, EE 1010, EE 1020 or ENGR 1030 or ENGR 1040 (any may be taken concurrently). Basic concepts of analog circuits including voltage, current power, resistance, capacitance and inductance. Ohm's, Kirchhoff's Laws, node voltages, branch, mesh currents, equivalent circuits and design projects are included.

EE 2000 – Cooperative Education In Electrical Engineering 1-2 cr

Prereq: Sophomore standing, minimum 2.0 GPA, and instructor approval. Supervised work experience in a business, industrial or governmental environment related to the program major. Credit is awarded for completion of specific objectives that provide new learning related to the program major.

EE 2200 – Elect. Eng. for Civil Engineer 1.5 cr

Prereq: PHYS 2210; MATH 2250 (can be taken concurrently). Fundamentals of electrical engineering topics for Civil Engineering majors. Fundamentals of DC and AC theory, power, motors, transformers, and design projects are included.

EE 2210 – Elect. Eng. For Non-EE Majors 3 cr

Prereq: PHYS 2210; MATH 2250 (can be taken concurrently). Fundamentals of electrical engineering topics for students who are not electrical engineering majors. Fundamentals of DC and AC theory, semiconductor devices, power, motors, transformers, transducers, actuators and design projects are included.

EE 2260 – Fund of Electrical Circuits II 4 cr

Prereq: EE 1270 and PHYS 2220. Basic concepts of Natural and step Response of RCL Circuits, Sinusoidal Steady-State, Power, Three Phase Circuits, Filters, Frequency selective circuits, Fourier Series and Laplace Transforms, Bode plots and design projects are included.

EE 2280 – Fundament. of Eng. Electronics **4 cr**

Prereq: EE 1270, MATH 2250, and PHYS 2220. Fundamentals of semiconductor devices, electronic circuits and components, network models of amplifiers, diodes, BJTs and MOSFETs, biasing, feedback, stability and frequency response are covered. Design projects and simulation are included.

EE 2700 – Fundamentals of Digiral System Design **4 cr**

Prereq: CSIS 1400 and PHYS 2220. An introduction to digital systems, Boolean algebra, theory of combinatorial circuits, sequential circuits and finite state machines. Computer aided design (CAD) tools used for schematic capture, simulate, implement and test the circuits.

EE 2900 – Special Topics In Electrical Engineering **1-3 cr**

Special Topics reflecting items of current interest in Electrical Engineering.

EET 1130 – Digital Systems **4 cr**

Prereq: MATH 1010 (may be taken concurrently) Introduction to digital electronics, integrated circuits, numbering systems, Boolean algebra, gates, flip-flops, multiplexers, sequential circuits, combinational circuits, programmable logic devices, and computer architecture. Lecture and lab combination. Laboratory activities to include the design, construction, analysis, and measurement of basic digital systems. Simulation will be emphasized.

EET 1140 – AC and DC Circuits **4 cr**

Prereq: MATH 1060 or MATH 1080 (may be taken concurrently). Introduction to AC and DC circuit fundamentals, analysis, theorems, laws, components, measuring devices, and equipment. The introduction and use of measuring instruments, power supplies, and signal generators. Lecture and lab combination with simulation emphasis. Laboratory activities to include circuit design, construction, and analysis of AC/DC circuits.

EGMT 1010 – Intro to Energy Management **2 cr**

Provides an overview of the energy management field and defines the need for energy management as an integral part of society. Course also presents various vocational opportunities through lectures/guest speakers/site visits.

EGMT 1110 – Heating Ventilation Air Conditioning Energy Analysis I **2 cr**

Prereq: EGMT 1010. Course introduces HVAC fundamentals including applications to residential and light commercial energy use. Topics include HVAC functions, units and measurements, heat transfer and loads, thermodynamics, heating and cooling systems, building envelopes, blower doors, indoor air quality, and basics of electricity. All subjects are related to their HVAC applications.

EGMT 1120 – Commercial Energy Analysis **3 cr**

Prereq: EGMT 1210 and MATH 1010. Analysis of energy use and management in light commercial buildings, preparing for and performing walk through audits in apartments, restaurants, and retail/office complexes. Emphasis on analyzing data obtained from field experience.

EGMT 1130 – Building Energy Simulations **3 cr**

Prereq: EGMT 1120. Course reviews computer programs available for analyzing commercial buildings. Topics include code and output format, BIN methodology, hourly simulations and current programs on market. Students perform simulations under supervision.

EGMT 1210 – Heating Ventilation Air Conditioning Energy Analysis II **2 cr**

Prereq: EGMT 1110 and PHYS 1010. An overview of the refrigeration cycle, HVAC system types, tuning, operating and maintenance (TOM), air duct design, psychrometrics and energy conserving retrofit options.

EGMT 1220 – Commercial A/C Sys Analysis **2 cr**

Prereq: EGMT 1210 and MATH 1010. Course will explore A/C systems commonly found in the commercial environment. Site visits and discussions will help students identify system types and conservation opportunities associated with each technology.

EGMT 1230 – Energy Control Strategies **3 cr**

Prereq: EGMT 1220, 1240, and 1700 or instructor approval. Course covers devices used to regulate energy use in buildings, pneumatic/electric/electronic; from manual to auto, simple switches to microprocessors. Emphasis on control/ calibration problems and re-designing for energy efficiency.

EGMT 1240 – Energy Efficiency Methods **2 cr**

Prereq: EGMT 1110 and PHYS 1010. Emphasis on energy management calculation methods using computerized spreadsheets, focusing on energy conversion factors, dimensional analysis and documentation standards. Fundamental effective calculations practiced for combustion motors and refrigeration.

EGMT 1310 – Lighting Fundamentals **2 cr**

Prereq: EGMT 1110, PHYS 1010, and EGMT 1700 or instructor approval. Course assesses quantity and quality of light, light sources and controls, luminaries, manufacturer lamp and ballast specifications, lighting power density and HVAC interactions, retrofit opportunities, cost saving analysis, lighting codes/regs. , lighting audit project.

EGMT 1320 – Lighting Applications **2 cr**

Prereq: EGMT 1310 and MATH 1010. Students will review terminology and lighting fundamentals, IES illuminance selection procedures, evaluate lighting systems, luminaries and associated components, perform illuminance calcs. including point by point, lumen and computerized procedures.

EGMT 1410 – Energy Investment Analysis **2 cr**

Prereq: EGMT 1210, 1240, 1310 and MATH 1010. What is/isn't appropriate energy efficiency measure investment? Utility rate schedules, simple payback analysis, compound interest, time value of money, cost estimating, life cycle cost analysis (LCCA), simulation tools reviewed. LCCA project req.

EGMT 1420 – Energy Accounting **2 cr**

Prereq: CSIS 1019. Course will review energy units, data gathering for energy accounting utility rates and schedules, energy data organization, acj. baselines, cost avoidance, load factor, data analysis, data presentation, ENACT software and spreadsheet development.

EGMT 1540 – Alt. Energy Technologies **2 cr**

Survey of sources of energy that may be used to increase energy supply in the Mountain West region including: wind, geothermal, solar and biomass. Environmental, social and economic advantages of each source are assessed.

EGMT 1700 – Basic Electrical Theory **3 cr**

This course is designed to provide students with a basic understanding of electricity and the NEC Code. With subjects including: electron theory; magnetism; electromagnetism; Ohms Law; series, parallel and multi-wire circuits; protection devices; DC/AC theory; capacitance; inductance; motor, transformer, and generator theory; NEC Code navigation; voltage drop; and wire sizing.

EGMT 1710 – Basic Photovoltaics Systems **3 cr**

Prereq: EGMT 1700. This course introduces students to the basic principles of utility interactive photovoltaic system design. Through classroom and hands on instruction this course provides the knowledge to: conduct site evaluations; prepare a basic electrical and mechanical design; select appropriate components; perform a financial benefit analysis; prepare a proposal; and work safely with PV systems.

EGMT 1720 – Adv. Photovoltaic Systems **3 cr**

Prereq: EGMT 1710. This course teaches students to: properly conduct site assessments with inter row shading; adapt electrical designs according to NEC and best trade practices; working safely with PV; perform system checkouts and inspections; design, install, maintain and troubleshoot commercial and off-grid photovoltaic, battery based and hybrid systems.

EGMT 2060 – Energy Management Seminar I **1 cr**

Seminar is a pathway for students to increase their understanding of industry expectations, as well as develop job search tools/skills. Designed to transition students from classroom to co-op to professional careers.

EGMT 2065 – Energy Management Seminar II **1 cr**

Seminar is a pathway for students to increase their understanding of industry expectations, as well as develop job search tools/skills. Designed to transition students from classroom to co-op to professional careers.

EGMT 2800 – Energy Management Internship **4 cr**

Recommended Prereq: Completion of all major course requirements. This course provides relevant field experience integrating theory and practice while providing opportunities to develop skills, explore career options through networking with professionals and employers in the energy management field.

ELI 1110 – Electricity I A **5 cr**

Prereq: MATH 0990 or ELI 1470 (either w/C grade or better) or appropriate Accuplacer score. Electrical materials and devices, safety on the job site and handling of tools and equipment. Math for electricians and electrical code including definitions and basic direct current fundamentals.

ELI 1120 – Electricity I B **5 cr**

Prereq: ELI 1110. Direct current fundamentals with application and study of the National Electrical Code including theory and definitions, circuits, direct current motors and generators. Introduction to Alternating Current is included.

ELI 1210 – Electricity II A **5 cr**

Prereq: ELI 1120. This is the continued study of direct current fundamentals and theory. It includes applied math for electricians, capacitance and impedance, series circuits and resistance.

ELI 1220 – Electricity II B **5 cr**

Prereq: ELI 1210. This course provides continued instruction in alternating current fundamentals and applied math for electricians. Instruction includes theory and application in transformers, alternating current methods and motor controls.

ELI 1470 – Math for the Trades (QS) **5 cr**

This is a customized electricians' course in applied mathematics for the trades including algebraic and trigonometric functions.

ELI 2000 – Electrical CO-OP **3-6 cr**

Prereq: Instructor approval. College credit for experience on the job site. Arranged in advance. Requirements are determined by the employee.

ELI 2310 – Electricity III A **5 cr**

Prereq: ELI 1220. This course provides instruction in heating and air conditioning, continued math for electricians and introduces instrumentation. Further instruction in National Electrical Code and testing equipment is provided.

ELI 2320 – Electricity III B **5 cr**

Prereq: ELI 2310. This course covers advanced motor controls theory and application, transformers and specialty applications. Instruction also is provided in electronics and continuation of math for electricians.

ELI 2410 – Electricity IV A **5 cr**

Prereq: ELI 2320. This is a study of atomic theory, electricity and magnetism and series-parallel circuits. Continued application and study of math for electricians and the National Electrical Code is included.

ELI 2420 – Electricity IV B **5 cr**

Prereq: ELI 2410. Math for electricians including vectors and trigonometric functions. Various circuits, power sources and supplies, advanced motor and motor control. National Electrical Code is included.

ELI 2510 – Electricity V A **5 cr**

Direct current and alternating current theory fundamentals, applied math and application of motors, motor controls and the National Electrical Code. Elective class to prepare journeymen for Master's Examination.

ELI 2520 – Electricity V B **5 cr**

Direct current and alternating current theory fundamentals, applied math and application of motors, motor controls and the National Electrical Code. Elective class to prepare journeymen for Master's Examination.

ELI 2990 – Electrical Special Studies **5 cr**

Special course requested by the Utah State Licensing Board for applicant electricians to review lab projects prior to retaking practical journeyman's exam.

ELI 2991 – Electrical Special Studies II **5 cr**

Special course requested by the Utah State Licensing Board for applicant electricians to review theory prior to retaking journeyman's examination.

ELTA 2000 – Elec/Comp Technology CO-OP **1-8 cr**

Prereq: Instructor approval. College credit awarded for on-the-job experience. Arranged in advance with requirements determined by the employer, employee, and instructor.

ELTR 1010 – DC/AC Basic Electronics **6 cr**

Prereq: ELTR 1040. Coreq: ELTR 1050. Covers basic electronics theory, DC and AC fundamentals, circuit analysis and troubleshooting. Students learn the use of electronics equipment such as meters, oscilloscopes, and function generators.

ELTR 1030 – Active Devices **6 cr**

Prereq: ELTA 1010 or ELTR 1010 and ELTA 2010 or ELTR 2010. Fundamentals of active devices-diodes, bi-polar junction and field effect transistors, tyristor family, opto electronic family, biasing techniques, basic amplifier classes, configurations, and basic power supplies.

ELTR 1040 – Technical Basic **2 cr**

Coreq: ELTR 1010. Covers MSDOS, Windows applications, and introduction to structured programming using QBASIC. Focus on practical applications that electronics and other technology students may encounter in the industry.

ELTR 1050 – Electronics Math **3 cr**

Prereq: MATH 1010 or appropriate Accuplacer score. Covers basic arithmetic, algebraic operations, and plane trigonometry required for electronics training program. Graphical solutions, determinants, circular solutions, and systems equations are covered.

ELTR 1080 – Electronic Assembly Skills **2 cr**

A project-oriented course that provides basic soldering and assembly skills required of electronic technicians. The focus is on thru-hole soldering to industry specifications. Students receive an industry recognized certification.

ELTR 1100 – Linear Circuits **4 cr**

Prereq: ELTR 1010 and ELTR 1050. Course covers active devices such as diodes, transistors, thyroidstors, and opto-electric devices. Amplifier biasing and categories are covered, including linear and non-linear circuits. Troubleshooting concepts are emphasized.

ELTR 1130 – Digital Circuits **4 cr**

Covers basic theory of digital circuits, binary, octal, and hexadecimal number systems, truth tables, gates, counters, and logical devices. AC/DC and DC/AC conversion is covered and lab projects emphasize troubleshooting.

ELTR 2000 – Elec/Comp Technology Co-op **1-8 cr**

Prereq: Instructor approval. College credit awarded for on-the-job experience. Arranged in advance with requirements determined by the employer, employee, and instructor.

ELTR 2010 – Advanced Circuit Analysis **2 cr**

Prereq: ELTR 1010 and ELTR 1100. Covers advanced electronic network theory including Thevenin's, Norton's, Millman's and superposition. Analysis of the effects of input and output impedances and loading effects on circuit performance are taught.

ELTR 2020 – Technician Certification **2 cr**

Prereq: ELTR 1100 and ELTR 1130. Review of electronics theory, applications to practical problems, and solutions. Computerized tutorial prepares students for industry-recognized associate level exams (National Assoc. of Radio and Telecom Engineers (NARTE).

ELTR 2100 – Advanced Linear Circuits **6 cr**

Prereq: ELTR 1010 and ELTR 1100. Advanced applications of linear circuits. Analysis of active filters, frequency effects on amplifiers, analysis of amplifying systems and computer simulation of linear circuits are covered.

ELTR 2140 – Advanced Digital Circuits **6 cr**

Prereq: ELTR 1130 or ELTA 1130. Course covers advanced digital topics, including Karnaugh maps, advanced logic circuits, advanced counters, shift registers, memory systems, and fundamentals of microprocessor architecture.

ELTR 2150 – Communication Systems **6 cr**

Prereq: ELTR 1100, ELTR 1130. Principles of AM, FM phase, and pulse modulation, applications, tuned, RF and power amplifiers, transmission lines and antennae. Also covers receiver and transmitter fundamentals. Students prepare for 1st FCC exam.

ELTR 2300 – Microprocessor Programs **6 cr**

Prereq: Instructor approval. Concepts of the basic computer system architecture, 68HC11 architecture, machine language and assembly language programming, debugging and trouble shooting. Hands-on training and program problem solving.

ELTR 2350 – Microprocessor Applications **6 cr**

Prereq: ELTR 2300. Introduces students to microprocessor interfacing including; data and control-in, and data and control out. Using PIA Interface adapter and writing control programs to operate and control external devices. Intro to robotics also taught.

ELTR 2480 – FCC License Preparation **4 cr**

Prereq: Instructor approval. Principles of AM, FM, phase and pulse modulation, applications, tuned, RF and power amplifiers, transmission lines and antennae. Also covers receiver and transmitter fundamentals. Students prepare for 1st class FCC exam.

ELTR 2900 – Special Topics in Electronics **4 cr**

Special Studies allows students to pursue special interests offered elsewhere in the program. Credit hours and course of study will be based on department approval. Course syllabus will outline requirements for each student.

ENGL 1010 – Intro to Writing (EN) **3 cr**

Prereq: WRTG 0990 w/C grade or better, or appropriate Accuplacer score. Development of critical literacies-reading, writing and thinking using methods of knowledge-making. Promotes awareness of rhetorical strategies as they apply to a variety of socio-cultural contexts.

ENGL 1030 – Writing in Professions (HR) **3 cr**

Prereq: ENGL 1010. Course examines theoretical principles, practical applications and ethical approaches of public and professional writing and places these concepts in experience-specific settings and contexts with the focus on writing as human interaction.

ENGL 1050 – Intr/Rdg Diverse Cultur(HU,DV) **3 cr**

Study of written and visual genres about diverse U.S. culture in order to explore the structures that serve to the advantage of certain social groups and to the disadvantage of others.

ENGL 1100 – Diversity /Pop US Lit (HU,DV) **3 cr**

Course examines popular American genres as sites of cultural struggle. Students study how popular American writing preserves cultural values and reinforces imbalances of power along lines of race, class, gender, and sexual orientation.

ENGL 1200 – Intro to Ling./Stdy of Lang. **3 cr**

Introduces students to the study of language. Students explore the sound, structure and social role of language in immediate and distant cultures. Natural language events will be observed, collected, interpreted and analyzed.

ENGL 1250 – Effective Revision and Editing **2 cr**

Students, individually and in groups, learn strategies to revise and edit the personal school and workplace writing they bring to class. They see how issues of correctness, like spelling, relate to purpose, audience, content, and process.

ENGL 1260 – Efficient Reading **3 cr**

Prereq: RDG 0990 w/C grade or better or appropriate placement. This course emphasizes improving reading speed, recall and comprehension for college-level materials.

ENGL 1800 – Digital Media Essentials **4 cr**

Introduction to software and hardware used to create multimedia productions. Hands-on experience using hardware, software to create 2D/3D graphics, sound, animation, and video. Discussion of the multimedia market, copyright, and ethics in mass media.

ENGL 1810 – Mentoring Writers **3 cr**

Introduces students to the theory, practice, and pedagogy of mentoring writers and provides practical experience through Service Learning opportunities at SLCC's Student Writing Center (SWC) and Community Writing Center (CWC).

ENGL 1820 – Publication Studies **3 cr**

Introduces students to the theory and practice of production, circulation, and distribution of printed and digital writing. Provides experience with publication software and equipment. Students will assist peers with production.

ENGL 1900 – Special Studies **1-3 cr**

Prereq: ENGL 1010 or instructor approval. Students propose a possible writing project for example, genre-based-fiction or poetry-or technical writing, then meet with the instructor a number of times throughout the semester to create and revise the project.

ENGL 1910 – WCC Capstone **1 cr**

Course examines practical documentation, creation and application of the Writing Certificate of Completion Program, including the WCC e-Portfolio, resume writing and revision of signature assignments. The grade for this course is given after the ePortfolio is graded at the end of the program.

ENGL 2000 – English CO-OP Education **2-4 cr**

Prereq: Sophomore standing, minimum 2. 0 GPA and study-related employment. Supervised work experience in a business, industrial or government environment related to the program. Credit for successful completion of specific learning objectives that provide new learning related to the job and the program.

ENGL 2010 – Intermediate Writing (EN) **3 cr**

Prereq: ENGL 1010 w/C grade or better. Extends principles of rhetorical awareness and knowledge making introduced in English 1010 and increases the ideological engagement within the classroom. Interrogates socioeconomic and political issues. Course may be taught with a Service Learning component.

ENGL 2030 – Language in US Society (HU,DV) **3 cr**

Prereq: ENGL 1010 w/C grade or better. Through a study of the patterns and functions of language in U. S. society, this course addresses how language establishes cultural identities and social allegiances, creates and disseminates knowledge, and develops and maintains power.

ENGL 2100 – Technical Writing (EN) 3 cr

Prereq: ENGL 1010 w/C grade or better. Professional writing in technical fields, contextualizing assignments in real-life work situations. Adaptation of writing strategies to cultural, social, and political contexts. Composing of diverse workplace documents. Course may be taught with a Service Learning component.

ENGL 2250 – Intro/ Imaginative Wrtg (HU) 3 cr

Introduction to various practices and genres of imaginative writing. The course invites writers to explore the rich resources of language at play in all kinds of writing. Students prepare a portfolio of their revised work.

ENGL 2260 – Intro to Writing Poetry (HU) 3 cr

Introduction to forms and meta-forms of poetry. The course invites student writers to take up historic and modern forms and to engage with poetry's history. Students prepare a portfolio of their revised work.

ENGL 2270 – Intro to Writing Fiction (HU) 3 cr

Fiction will be examined as to its originations, conventions and effects on audience. Investigation of where distinctions of fiction, autobiography and other prose writing become ambiguous. Cultural assumptions and influences discussed.

ENGL 2280 – Intro Creative Nonfiction (HU) 3 cr

Introduction to the conventions the creative nonfiction genre. Students read, analyze, and practice various forms of the essay. Creative non-fiction invites writers to make connections between personal experiences and the larger world.

ENGL 2290 – Intro Novel Writing 3 cr

Introduction to the history and conventions of the novel. Students will read, analyze, and practice various genres. Course invites writers to explore various structures.

ENGL 2300 – Intro to Shakespeare 3 cr

Prereq: ENGL 1010 w/C grade or better. Interpretive strategies for reading Shakespeare. Approach from traditional critical positions, moving to current social cultural and political reinterpretations. Students examine contemporary retellings of the plays.

ENGL 2330 – Children`s Literature 3 cr

Prereq: ENGL 1010 w/C grade or better. This course explores texts written for children through the elementary level. Emphasis is placed on scope, artistic merit, and selection.

ENGL 2500 – Grammar and Style **3 cr**

A study of prose style through the lens of grammar, focusing on shaping sentences, paragraphs, and longer discourses for rhetorical effect, elegance, clarity, readability, and coherence. Students will gain practical abilities to edit their own and others prose.

ENGL 2600 – Critical Intro Literature (HU) **3 cr**

Course introduces and analyzes various genres of literature in light of a variety of critical and theoretical approaches.

ENGL 2610 – Diversity in Amer. Lit (HU,DV) **3 cr**

Prereq: ENGL 1010 w/C grade or better. Course interrogates historical, political and cultural ideas suggested and sustained within representative American texts, some classic, others newly emerging. Materials include both traditional and popular readings.

ENGL 2630 – Global Literatures (HU) **3 cr**

This course surveys literature from all parts of the world with a goal to promote an understanding of global/international literary works in their cultural/historical contexts and with an understanding of the enduring human values that unite different literary traditions.

ENGL 2640 – Writing and Social Justice (HU) **3 cr**

Prereq: WRTG 0900; RDG 0900 or placement into RDG 0990. Examine how writing can activate a reader's moral imagination and can function as an act of social justice. Using narrative theory, explore the ways in which multiple genres address social justice through reading and writing. Discuss theories and conceptual frameworks of social justice as well as multiple issues: racism, sexism, classism and able-ism.

ENGL 2700 – Introduction Critical Theory **3 cr**

Prereq: ENGL 2600. This course outlines, and challenges, the central orthodoxies of cultural criticism in the 20th century. Includes linguistics, Marxism, feminism, and various post-structuralisms. Includes film and pop-cultural texts.

ENGL 2710 – Intro to Folklore (HU) **3 cr**

Study of the importance of ordinary people and their constructions of cultural meanings. Popular creation of material goods, oral traditions, customs, and meaning-making are examined through numerous academic and hands-on methods.

ENGL 2760 – Gender/Cultural Studies(HU,DV) **3 cr**

Examines texts (literature, film, theory) to understand social constructs in the US. Studies the power of language to preserve cultural values and reinforce imbalances of power based on gender as well as race, class, and sexual orientation, etc.

ENGL 2810 – Native Am Lit & Exp (HU,DV) **3 cr**

Prereq: ENGL 1010 w/C grade or better. This course explores Native American Experiences, including a survey of histories, literatures, cultural patterns and contemporary experiences, examined within the framework of cross-cultural interactions and competing world views.

ENGL 2830 – Diverse Women Writers (HU,DV) **3 cr**

Course examines the range of U.S. women's voices and explores how racism, sexism, and cultural imperialism affect identity formation and relations between the powered and the disempowered.

ENGL 2850 – Intro to Queer Studies (HU,DV) **3 cr**

Introduction to postmodern and queer theories (challenging the idea of "normal"), societal gender construction as seen in literature & film, beginning with the history of heterosexism and questioning modern US. society's treatment of Gay, Lesbian, Bisexual, & Transgendered people. ENROLLMENT IN THIS COURSE IMPLIES NOTHING ABOUT THE STUDENT'S SEXUAL ORIENTATION.

ENGL 2900 – Special Topics in English **1-3 cr**

In-depth study of a particular topic in English Studies. It involves readings, discussion, research, and intensive writing.

ENGR 1030 – MATLAB Problem Solving **3 cr**

Prereq: MATH 1060 or 1080. An introduction to engineering problem-solving using MATLAB. Course work includes interactive computing, data analysis, and graphics.

ENGR 1040 – Engineering Computing **3 cr**

Prereq: MATH 1060 or 1080. A first course in engineering problem solving, this course introduces MATLAB and C++. Problems are drawn from the various disciplines in engineering. No previous experience with computer programming is assumed.

ENGR 1050 – Intro to Nanotechnology (PS) **3 cr**

Nanoscience sits at the intersection of the basic scientific disciplines. This technology has far reaching implications in healthcare, environment, business, and society, and has wide ranging ethical impacts in the world today. This course introduces the basic concepts of nanoscience and explores how it is changing our world.

ENGR 1600 – Engineering the Guitar (ID) **3 cr**

Students will construct and take home an electric guitar. Engineering concepts related to manufacturing processes and scientific concepts related to the behavior of musical instruments will be explored. Students will be introduced to basic fingering and will learn simple chords on their new instrument. This course emphasizes the inter-relationships between science, engineering and art.

ENGR 2050 – Nano II - Properties of Nanomaterials **3 cr**
Prereq: MATH 1050 W/C grade or better, or appropriate Accuplacer score. ENGR 1050 W/C grade or better. This course teaches students concepts associated with nanomaterial properties including; electronic structure, colloidal chemistry, magnetism, and photonics.

ENGR 2070 – Micro and Nanoscale Fabrication Processes **2 cr**
Prereq: MATH 1050 W/C grade or better, or appropriate Accuplacer score. ENGR 1050 w/C grade or better. This course teaches students about the various micro and nano fabrication procedures associated with deposition, patterning, and etching.

ENGR 2900 – Special Topics in Engineering **1-3 cr**
Special Topics reflecting items of current interest in Engineering.

ENGR 2950 – Engineering Forum **1 cr**
Exploration of Engineering through Guest Lecturers and Field Trips to industry.

ENVT 1010 – Race to Save Planet (ID) **3 cr**
Interdisciplinary elective giving students an understanding of the connections between people and the environment. Environmental problems from Utah and around the world are discussion issues. Course may be taught with a Service Learning component.

ENVT 2200 – Laws/Policy for Sustainability **3 cr**
Prereq: ENVT 1010. Explore the laws and policies in the US which affect sustainability. Discuss policies and applications for sustainability includes a project connecting laws, regulations, policies, treaties and science to a major sustainability issue.

ESL 1010 – College Listening and Speaking **7 cr**
Prereq: LOEP>72/ TOEFL 133-172/>450. Prepares students to participate in college classes. Note taking from college lectures, student presentations, are covered.

ESL 1020 – College Reading and Writing **8 cr**
Prereq: LOEP>72/TOEFL 133-172/>450. Course includes comfort and fluency in writing, academic essays, college textbook reading, and vocabulary building.

ESL 1030 – ESL Conversation **3 cr**
Prereq: LOEP>72/TOEFL 133-172/>450. Helps students improve general English conversation skills through intensive practice.

ESL 1040 – ESL Grammar **3 cr**
Prereq: LOEP>72/TOEFL 133-172/>450. Provides instruction and practice in the accurate use of English grammar, including verb tenses, articles, word order, sentence connections, adverbials, and prepositions.

ESL 1050 – ESL Vocabulary **3 cr**
Prereq: LOEP>72/TOEFL 133-172/>450. Encourages students to increase their vocabulary and to accurately use academic and conversational words and idiomatic phrases in speaking and writing.

ESL 1060 – ESL Pronunciation **3 cr**
Prereq: LOEP>72/TOEFL 133-172/>450. Assist students in improving all levels of pronunciation, including individual sounds, word stress and sentence intonation.

ESL 1070 – TOEFL Preparation **3 cr**
Prepares student to take the Test of English as a Foreign Language.

ESL 1080 – Business English for ESL **3 cr**
Prereq: LOEP>72/TOEFL 133-172/>450. Introduces students to the proper use of English in business situations, including job interviews and resume writing.

ESL 1900 – Special Studies - ESL **1-4 cr**
Seminars and workshops for students learning English as a Second Language.

ETHS 2410 – African Amer. Culture (SS,DV) **3 cr**
Intro to historical, political, social and cultural experiences of African Americans in U.S. society including the impact of privilege and discrimination; use of social work frameworks to increase competency in complex cultural and community issues.

ETHS 2420 – Asian American Culture (SS,DV) **3 cr**
Intro to historical, political, social and cultural experiences of diverse Asian Americans in U.S. society including the impact of privilege and discrimination; use of social work frameworks to increase competency in complex cultural and community issues.

ETHS 2430 – Mexican Amer. Culture (SS,DV) **3 cr**
Intro to historical, political, social and cultural experiences of Mexican Americans in U.S. society including the impact of privilege and discrimination; use of social work frameworks to increase competency in complex cultural and community issues.

ETHS 2440 – Native Amer. Culture (SS,DV) 3 cr
Intro to historical, political, social and cultural experiences of Native American groups in U.S. society including the impact of privilege and discrimination; use of social work frameworks to increase competency in complex cultural and community issues.

EVNT 1010 – Intro to Event & Mtg Planning 2 cr
This introductory online course acquaints students with the common components of well executed meetings and events. This course introduces site selection, food and beverage, audio visual, contracts, industry overview and career possibilities.

EVNT 1100 – Site Selection/Negotiation/Law 2 cr
This course outlines the key elements to successful site selection, negotiation issues/techniques, contract provisions/analysis and diverse industry contracts. Legal issues unique to the meeting industry will be identified.

EVNT 1200 – Transportation & Housing 2 cr
The logistics of air and ground transportation and hotel arrangements will be discussed. Students will learn trade strategies to make informed decisions leading to a successful meeting experience.

EVNT 1300 – Event Registration 2 cr
This course introduces students to the various registration systems and keys to selecting the best registration method. Students will learn the process to make informed decisions.

EVNT 1400 – Food and Beverage Management 2 cr
Learn a systematic approach to evaluating meeting objectives and group needs as they relate to menu design, pricing structures, guarantee strategies, negotiation items and overall information about food and beverage services.

EVNT 1500 – Hotel Sales & Operation 2 cr
This online course introduces students to the principles and procedures of hotel sales and operation by taking part in learn-by-doing activities. Networking, building internal and external relationships and selling techniques will also be taught.

EVNT 1600 – Special Events 2 cr
Students will be provided with the tools needed to hold effective special events. Venues including meetings, conferences, exhibits, fairs, trade shows, international events, weddings, etc. will be addressed.

EVNT 1700 – Non-Profit Event Planning **2 cr**
This online course focuses on planning successful special events for non-profit organizations. Students will explore fund-raising breakfasts, black tie galas, festivals, auctions, golf tournaments, fashion shows, concerts and soirees.

EVNT 1800 – Money Management for Event Planners **2 cr**
This online course introduces students to the essential tools needed to prepare a budget for events of all sizes, information gathering, analyzing goals/objectives and preparing and communicating presentations to clients.

FA 1025 – Human Relations and Collaboration in the Performing Arts (HR) **3 cr**
Students study the theory and practice of human relations associated with professional production of the performing arts, commercial music and film. Skills developed include: Self-concept, interpersonal skills, teamwork and collaboration, communication, networking, conflict resolution, career development, cross-cultural & gender relations, and portfolio development.

FA 1080 – Basic Metal Sculpting (FA) **3 cr**
Enable students to develop and appreciate the human imagination and understand the value of personal creativity through metal sculpting using welding techniques and design.

FA 1090 – Bridging the Arts (FA) **3 cr**
Course examines the interconnectedness of art, dance, music and theatre by investigating the artistic elements and common threads within the creative process to develop an informed appreciation for one's own artistic values.

FASH 1010 – Introduction to Fashion **3 cr**
Students will gain a general understanding of the many facets of the fashion industry including career opportunities and specialization areas such as history, merchandising, design, fashion coordinating and textile technology.

FASH 1100 – Pattern Drafting Essentials **3 cr**
Prereq: Knowledge of basic sewing helpful. This technical course introduces the theory and application of flat pattern drafting. Students learn to draft various components of garments and to construct muslin samples from drafted pattern from sketch.

FASH 1150 – Pattern by Measurements **3 cr**
Prereq: Knowledge of sewing helpful. Students will learn to create patterns for individuals of all shapes and sizes with fewer fittings.

FASH 1200 – The Art of Fashion **3 cr**
Review of the social, psychological and economic aspects of fashion from a historical perspective. Students will examine styles and approaches to fashion in contemporary culture.

FASH 1210 – Fashion Illustration I **3 cr**
Students will learn to draw articles of clothing in correct proportion using a guide figure. They will learn to illustrate textures and the use of color to graphically illustrate individual designs.

FASH 1240 – Fashion Buying and Management **3 cr**
This class will explore all aspects of buying and management as they relate to the fashion industry. The class focus includes pricing, planning assortment, customer service, selling skills and inventory issues.

FASH 1250 – Textiles **3 cr**
Students will learn the process of fabric construction; analyze fibers, yarns, fabrics, finishes, and the fabric choices in the design of clothing.

FASH 1260 – Fashion Forecasting **3 cr**
Students will learn how to predict trends in fashion by evaluating popular designer collections, surveying fashion publications, catalogs and design services, researching sales statistics and studying market conditions.

FASH 1300 – Visual Merchandising **3 cr**
An introduction to the principles and elements of design as it relates to merchant displays. Students will create displays emphasizing line, balance, color and harmony.

FASH 1320 – Apparel Analysis **3 cr**
An overview of the apparel production cycle: how apparel products are designed, created and distributed. Style terminology, sizing, price points, fabric choices, sustainability and other factors in apparel production are discussed.

FASH 1350 – History of Costume **3 cr**
A study of historical fashion from 4000 BC to the 20th century and how that history affects current fashion design.

FASH 1370 – 20th Century Fashion **3 cr**
Prereq: FASH 1350. This course is designed for students to gain an appreciation for the fashions and fashion icons of the 20th Century and their impact on current fashion trends.

FASH 1400 – Copyrights for Creative Professionals **1 cr**
This introductory short course focuses on U.S. copyrights given to creative individuals who produce visual, musical, literary works of art or performing arts. The course also covers licensing and trademarking.

FASH 1420 – Salesmanship And Promotion For Creative Professionals **2 cr**
This introductory short course will introduce basic sales and self-promotional principles and techniques specifically tailored for creative artists.

FASH 1440 – Building A Creative Business **2 cr**
This introductory short course will introduce basic business structures and examine the process of setting up a business for creative professionals working in the areas of music, the many forms of visual design, fine art, animation, film and video, and the literary arts.

FASH 1500 – Beginning Sewing **3 cr**
Students begin their knowledge of construction techniques through demonstration, sample book of skill building construction techniques and two sewn projects.

FASH 1505 – Intermediate Sewing **3 cr**
Prereq: FASH 1500 or instructor approval. This class teaches students intermediate-level sewing techniques through a combination of practical exercises and the creation of skill-building samples and finished garments including cuffs, collars, and plackets.

FASH 1550 – Alterations **3 cr**
Prereq: FASH 1500 or knowledge of basic sewing. Students will learn techniques necessary to alter ready-made garments, preparing them for employment in retail stores and theater costume shops.

FASH 1610 – Knitwear Design **3 cr**
Prereq: FASH 1100. Students will learn construction techniques for making knit garments.

FASH 1630 – Outerwear & Performn. Apparel **3 cr**
Prereq: FASH 1505, FASH 1100 and FASH 1660. A study of special techniques will enable students to understand the construction of specialized apparel used in cold climates.

FASH 1640 – Millinery **3 cr**
Prereq: FASH 1500 or basic knowledge of sewing. Students will work with felt and straw using hat blocks. Students will also learn couture finishing techniques free form sculpting using steam and added objects to create shape.

FASH 1650 – Embellishments **2 cr**
A study of embellishment techniques for clothing including decorative machine stitching, appliqué, piping, beading and other fabric embellishments.

FASH 1660 – Pattern Drafting Procedures **3 cr**
Prereq: FASH 1100. This course is a continuation of FASH 1100. Students will draft their own basic pattern set and use this set as the basis for actual product construction.

FASH 1670 – Intimate Apparel & Swimwear **3 cr**
Prereq: FASH 1610. This course introduces students to the construction techniques involved in the development of intimate apparel products. Students create a prototype from a sloper, using professional sewing methods and application techniques. This is the Advanced Knitwear class.

FASH 1680 – Digital Pattern Making **3 cr**
Prereq: FASH 1100. This course introduces the students to computer pattern making. They will learn to transfer pattern drafts to computer with industry standard software.

FASH 1700 – Tailoring Techniques **3 cr**
Prereq: FASH 1505. Overview of the techniques that are applied to the construction of suits and coats. Students will learn how to select fabrics for specific garments, alter patterns for proper fit, and construct a tailored jacket.

FASH 1850 – Fashion Show Production **4 cr**
Students will learn the processes and procedures of producing fashion shows. The class will culminate with the production of a fashion show featuring original designs from FASH 2400 students.

FASH 1900 – Special Projects **1-3 cr**
Prereq: Instructor approval. Students will have the opportunity to specialize in areas that are not available in class format. Students, with instructor approval. and supervision will work on individual projects.

FASH 1950 – Corset Making Techniques **3 cr**
Prereq: FASH 1505. Students learn different components of making a corset including; spiral boning and placement, coutil underlining, grommets, tipped lacings, bias binding techniques, bias making tools and couture style hand finishing techniques.

FASH 2000 – Fashion Internship **3 cr**
Prereq: FASH 1100 and FASH 1505. Students will have the opportunity to work as interns in the fashion industry as patternmakers, designers, and fashion merchandisers. They will work under the combined supervision of an on-site supervisor and an SLCC instructor.

FASH 2030 – Advanced Sewing **3 cr**
Prereq: FASH 1505. Students will learn to master the necessary construction skills to produce professional quality garments.

FASH 2050 – Pattern Alterations and Fit **3 cr**
Prereq: FASH 1100 and FASH 1505. Pattern Alterations and Fit is designed to teach the techniques in fitting readymade garments correctly, and altering patterns to fit each individual body according to their measurements and body type before the garment is constructed.

FASH 2150 – Draping Fundamentals **3 cr**
Prereq: FASH 1505 and FASH 1210. Three-dimensional draping approach to executing garment design. Through critiqued design development on the dress form, students develop their own sense of proportion, silhouette, line, style, while exploring current market trends.

FASH 2220 – Fashion Illustration II **3 cr**
Prereq: FASH 1210. Students will develop their own style of illustration and broaden their knowledge of professional designers and illustrators. Students will learn Adobe Illustrator and Photoshop for fashion design.

FASH 2280 – Bridal Design / Evening Wear **3 cr**
Prereq: FASH 1505 and FASH 1660. Students will learn the art of Bridal and Eveningwear Dressmaking in a methodical, step-by-step fashion that will culminate in a finished garment.

FASH 2300 – Design Outreach **3 cr**
Prereq: Instructor approval. Students will design clothing, create patterns, and sew a fashion collection that will be sold in a local retail boutique shop.

FASH 2350 – Costuming **3 cr**
Prereq: FASH 1350, FASH 1505 and FASH 2010. Overview of techniques applied to the construction of costumes for the theater. Students will participate in all aspects of costume preparation, including: alterations, pattern making, fittings, construction, and accessories.

FASH 2410 – Collection Development **3 cr**
Prereq: FASH 1505, FASH 1220 and FASH 2100. This course is for second year students. Students make an initial selection of color and fabric, develop design ideas, and determine the fashion direction of their collections for the Raw Couture Fashion Show.

FASH 2440 – Collection Production **3 cr**
Prereq: FASH 2410. This course is for second year students. Students continue to develop a collection for our fashion show, perfect muslin samples of their designs, begin construction of garments, and fit finished garments on a professional model.

FASH 2450 – Portfolio Development **3 cr**
Prereq: Instructor approval. Focus on the process of evaluating portfolios. Students will create a portfolio that can be used for employment interviews or applications for advanced education.

FASH 2500 – Fashion Entrepreneurship **3 cr**
Prereq: Instructor approval. Students will explore entrepreneurial opportunities and learn business skills necessary to succeed as small business owners in the apparel and sewn products industry.

FASH 2550 – Fashion Production & Sourcing **3 cr**
Prereq: FASH 2450 and FASH 2500. Emphasis is on creating a sample, negotiating, developing, merchandising, producing the sample, and analyzing the choices for materials and garment construction, and how choices affect the price of a garment.

FHS 0010 – Intro to Early Child. Ed. Lab **0 cr**
Coreq: FHS 2500, 2600, or 2620. A lab experience in which students complete two or more hours per week (depending on coreq course) of supervised interaction with children at the Eccles Lab School.

FHS 0011 – Child Guidance - Lab **0 cr**
Coreq: FHS 2610. A lab experience in which students complete two hours per week of supervised interactions with children at the Eccles Lab School.

FHS 1230 – Adolescent Growth & Dev. **3 cr**
Studies the growth and development of adolescents. Principles and issues that affect adolescents' daily lives in the home, school, and society are discussed.

FHS 1500 – Lifespan Human Dev (SS) **3 cr**
Fundamentals of growth and development from before conception to old age and death are explored. The domains of physical, cognitive, and social-emotional growth for each age in the life cycle are explored in a variety of contexts.

FHS 1900 – Individual Studies in FHS **1-3 cr**
Prereq: Instructor approval. Students plan areas of study, Service Learning, or travel and work with an instructor on an individual basis. The course may involve readings, discussion, research, service learning, intensive writing, or other skills deemed appropriate.

FHS 2000 – Co-op Education in FHS **1-2 cr**
Prereq: Instructor approval. This course is designed to accommodate the needs of students who are working at least 20 hours per week in a professional environment that provides direct care to young children. Credit varies (1-2 hours).

FHS 2020 – Special Studies-CDA Completion **3 cr**
Individuals who have been awarded the CDA Credential will be awarded credit.

FHS 2300 – Administration of Early Childhood Programs **3 cr**
This course focuses on the working world of a child care center director. Through readings, hands-on projects and discussions with other students in the course, students will explore decision-making from a program's inception, funding, and staffing. This class examines basic management principles in directing a preschool or child care program.

FHS 2340 – Creating Environments for Young Children **3 cr**
Focuses on the preparation of indoor & outdoor learning environments for children in early childhood settings, developmentally and culturally appropriate materials, equipment & technological resources, and the importance of play as the primary vehicle through which young children learn. Emphasis is placed on how to provide learning environments that support and enhance all areas of development.

FHS 2400 – Marriage and Family Rela. (ID) **3 cr**
Introduction to marriage and the family. Family relationships and dynamics are examined within the context of societal change. Emphasis is placed on the connection between the family and individuals' personal choices in a changing society.

FHS 2450 – Intro. to Human Sexuality (ID) **3 cr**
Integration of biological, behavioral, and socio-cultural factors in human sexuality and relationships. Personal and social-sexual issues are explored as they relate to sexual decision-making/behavior and sexual health.

FHS 2500 – Child Development: Birth-Eight **3 cr**
Prereq: FHS 1500, FHS 2600, and FHS 2610 (can be taken concurrently), all w/C grade or better. Coreq: FHS 0010. The study of child development. Emphasis on curriculum development and developmentally appropriate practices. Methods of teaching children are examined and practiced. Includes observation and participation in a supervised lab experience.

FHS 2550 – Infant and Toddler Development **3 cr**
The total development of the infant from birth to 24 months. Emphasis on observation, assessment, developmentally appropriate practices and professional infant care. Research on experimental learning will be reviewed.

FHS 2570 – Growth & Dev. of Children 6-12 **3 cr**
Studies the growth and development of children ages 6 to 12 years. Principles and issues that impact the child's daily life in the home, school, and community are discussed.

FHS 2600 – Intro. to Early Childhood Ed. **3 cr**

Coreq: FHS 0010. Recommended Prereq: FHS 1500. An introduction to the field of Early Childhood Education. The basics for shaping curriculum for young children are introduced. Observation and participation in a supervised lab experience (FHS 0010) is a key element of the course.

FHS 2610 – Child Guidance **3 cr**

Coreq: FHS 0011. Recommended Prereq: FHS 1500. This is an introduction to effective strategies for guiding children in individual and large group settings. It includes observations and participation in a supervised lab experience (FHS 0011).

FHS 2620 – Creative Learning **4 cr**

Prereq: FHS 1500, 2500, FHS 2600, and FHS 2610, all w/C grade or better. Coreq: FHS 0010 (a specified section of FHS 0010 must be taken with this course please contact the department for more information). Capstone course for FHS AS degree. Emphasizes creative process in planning, implementing curriculum and self discovery. Assessment, home and school communication, professional ethics included. Department capstone project and e-portfolio required. Two weekly labs required.

FHS 2640 – Home, School & Comm. Relations **3 cr**

The relationship between home, school and the community are explored. Emphasis is placed on building effective communication between parents and teachers.

FHS 2645 – Early Childhood Integrated Curriculum **3 cr**

Provides students with a practical framework for building effective and meaningful curriculum for young children. Students will study, participate in and practice methods in planning and implementing an integrated early childhood curriculum.

FHS 2800 – Practicum Teaching **5 cr**

Prereq: FHS 2620 (may be taken concurrently) w/C grade or better and instructor approval. Coreq: FHS 2820. Supervised classroom practicum experience in the Eccles Lab School. In collaboration with lead teacher, students plan and implement lesson plans and activities for a large group of children. Community placement module included.

FHS 2820 – Teaching Seminar **2 cr**

Prereq: FHS 2620 (may be taken concurrently) w/C grade or better and instructor approval. Coreq: FHS 2800. Examines child development concepts and how they apply to teaching young children. Focuses on building teaching competencies. Seminar format. Discussion of strengths and challenges associated with practicum teaching experience.

FHS 2900 – Special Topics in FHS **1-3 cr**

An in depth study of a particular topic in early childhood, family or human studies. The course may involve readings, discussion, research, intensive writing or other skills deemed appropriate. Course may be taught with a Service Learning component.

FIN 1050 – Personal Finance (ID) **3 cr**

Study of financial skills essential for economic success. Subjects: Financial planning, financial services, income taxes, consumer buying, insurance, retirement planning and estate planning.

FIN 1210 – Principles of Banking **2 cr**

Evolution of American banking; deposit, credit and payment functions; loans and investment; liquidity, safety and income; bank language, documents, accounting and pricing; regulation and examination; personnel, marketing and security; trust services.

FIN 1380 – Financial Mathematics (QS) **3 cr**

Prereq: MATH 0990 or appropriate Accuplacer score. This course studies time value of money applications in both business and individual settings. Topics include simple and compound interest, annuities, installment loans, savings programs, and APR, APY, NPV, IRR calculations.

FIN 2000 – Finance and CO-OP Education **1-3 cr**

Prereq: Minimum 2.0 GPA with 20 hours/week study-related work. This is supervised work experience in business, industrial, or governmental environment related to the program major. Credit is awarded for completion of specific new learning objectives related to the job and program major.

FIN 2040 – Financial Management **3 cr**

Prereq: ACCT 2020. This course studies concepts essential to business success. Planning and analysis, leverage, asset management, stock valuation, and debt financing are all examined. Problem-solving with financial calculators and computer applications is taught.

FIN 2100 – Introduction to Investments **3 cr**

Prereq: Recommended FIN 1050. Process of investing; goal setting, risk-return, diversification and asset allocation. Study of available investment vehicles, functions of financial markets, investment techniques/strategies. Taxes, insurance, and estate planning.

FIN 2150 – Mutual Funds **3 cr**

Prereq: Recommended FIN 1050. Mutual funds are a widely-held investment product. Topics include financial intermediaries, marketing to investors, portfolio management, technology and internationalization. Case studies are used for analysis.

FIN 2200 – Personal Financial Plan **3 cr**

Prereq: Recommended FIN 1050. Real-life case studies; questioning and decision making; basic principles of financial planning, cash budgets, taxes, management of assets and debts; insurance review (life, health, property and liability), major investment vehicles, retirement and estate planning.

FIN 2210 – Principles of Business Credit **3 cr**

Prereq: Recommended ACCT1110 or ACCT2010. Business and Consumer credit; credit management, developing credit information, financial systems analysis, decision making, collection practices & procedures; credit reporting agencies, credit department organization and policies, international trade credit, and government use and regulations.

FIN 2220 – Financial Statement Analysis **2 cr**

Prereq: ACCT 1120 or 2010 (can be taken concurrently) and FIN 2210 (can be taken concurrently). Analysis of company financial statements to identify and evaluate credit risk. Analysis leads students to conclusions about a firm's financial condition and credit worthiness.

FIN 2240 – Credit Law **2 cr**

Prereq: Recommended FIN 2210. Legal aspects of credit and collections. Subjects: Credit laws, civil procedure, secured claims and bankruptcy.

FIN 2600 – Securities Trading I **3 cr**

Prereq: Recommended FIN 1050. Analysis, application and practice of trading philosophy, trading planning, trading rules, technical analysis, fundamental analysis, and portfolio analysis in the stock, options, currency and commodities markets.

FIN 2950 – Business Leaders Forum **1 cr**

Corporate, industry, and government leaders share their experiences in finance, management, and economics. Students benefit from wisdom acquired through practical business experience and learn about events affecting local and national businesses/economies.

FIN 2990 – Special Studies in Finance **1-3 cr**

Prereq: Instructor approval. Under the supervision of the instructor, students develop and follow an individualized curriculum.

FLM 1023 – Introduction to Film (FA) **4 cr**

Introduces students with no previous film training to historical, technical, and aesthetic developments of film within its cultural context. Film genres examined. Some materials presented are R-rated. Also listed as THEA 1023.

FLM 1045 – Beginning Film Production **6 cr**

An intensive workshop experience in which students, crewing in their area of specialization, complete the shooting and post-production of projects up to 15 minutes in length. Required for film majors.

FLM 1055 – Intermediate Film Production **6 cr**

Prereq: FLM 1045. An intensive workshop experience in which students complete pre-production building toward a final project which they will cast, staff, and shoot, producing a 15 to 20 minute short film. Required for film majors.

FLM 1070 – Film and Culture (FA,DV) **4 cr**

Course intended to raise diversity awareness through aesthetic, critical, and interdisciplinary examination of our American Cultural Identity through film. Presents film as an art form, as an industry, and ultimately a system of cultural representation and communication.

FLM 1075 – Screenwriting **3 cr**

Introduces professional screenwriting techniques, with focus on properly formatting screenplays for film, including narrative style projects. The student will be required to develop a script using professional screenplay software.

FLM 1080 – Music In Film **2 cr**

Prereq: FLM 1023 or concurrently, or instructor approval. Instruction and discussion in the role of music in film. Students will examine the scores of historical and present-day films to learn different approaches to film scoring and the different roles music can play in film, and will learn about the process of creating music for film from the spotting session through the final audio mix.

FLM 1100 – Acting for the Camera I **1 cr**

Acting for the camera focuses on discovering and developing strong acting techniques common to both stage and camera, on the relationship between actors and directors, and on developing basic camera techniques.

FLM 1101 – Acting for the Camera I Lab **3 cr**

This lab course allows for practice time in both solo and interactive performances for the camera.

FLM 1110 – Voice & Speech for the Actors **3 cr**

Principles of diction, voice development and improvement, vocal variety and expressiveness. Focus on various aspects of using the voice effectively including volume and projection, rate and phrasing, inflection, and resonance.

FLM 1200 – Acting for the Camera II **1 cr**

Prereq: FLM 1100. Hands-on study of the camera actor's craft. Emphasis on more advanced camera acting theories, auditioning techniques, practice of various camera techniques and the study of methods used by Film/TV actors.

FLM 1201 – Acting for the Camera II Lab **3 cr**

Prereq: FLM 1101. This lab course allows for practice time in both solo and interactive performances for the camera.

FLM 1300 – Money & Creative Professionals **1 cr**

Basic financial information for creative professionals or students interested in freelance work or setting up a studio. This course is useful for artists working in the areas of fine art, the many forms of design, photography, film/video, music, advertising, the performing arts and creative or technical writing.

FLM 1400 – Copyrights for Creative Professionals **1 cr**

This introductory short course focuses on U.S. copyrights given to creative individuals who produce visual, musical, literary works of art or performing arts. The course also covers licensing and trademarking.

FLM 1420 – Salesmanship And Promotion For Creative Professionals **2 cr**

This introductory short course will introduce basic sales and self-promotional principles and techniques specifically tailored for creative artists.

FLM 1440 – Building A Creative Business **2 cr**

This introductory short course will introduce basic business structures and examine the process of setting up a business for creative professionals working in the areas of music, the many forms of visual design, fine art, animation, film and video, and the literary arts.

FLM 1515 – Basic Audio Production **3 cr**

A broad overview of sound, sound systems, recording, and live sound reinforcement providing basic training in the physics of sound and the hardware and systems used to control and record it. No prerequisites.

FLM 1800 – Digital Media Tools/Techniques **4 cr**

An introduction to digital media fundamentals and the evolving industry. Students obtain a hands-on, in-depth experience with digital media tools, content and production techniques. Industry standard hardware and software tools are used to create and edit images, audio, video, layout, and web media to create powerful media. Copyright and professional responsibility issues and trends are covered.

FLM 1900 – Independent Studies **1-2 cr**

Prereq: Instructor approval. Students will plan their areas of study, performance and/or technical work with full-time instructor on an individual basis.

FLM 2015 – Film Directing And Techniques **4 cr**

Prereq: FLM 1045, FLM 1055, or instructor approval. This course teaches film directing techniques and theory. Students will explore film directing history; film terminology, language and grammar; and story structure and basic acting theory. Students will: perform script analysis; prepare a shot list; diagram and block a scene; learn and exhibit methods to shoot and cover a scene; understand how to work with actors; learn to work with departments and crew.

FLM 2045 – Commercial Film Production **4 cr**

Prereq: FLM 1045 and FLM 1055 both w/C grade or better. This course presents professional instruction in digital, industrial, and commercial production techniques for Film and broadcast. Required for film majors.

FLM 2065 – Motion Picture Sound **4 cr**

Prereq: FLM 1515. Sound as a creative tool for enhanced story telling in film production. Use of proper equipment and techniques for acquisition of production sound; tools techniques and practices of audio post production.

FLM 2075 – Advanced Video Editing And Postproduction **3 cr**

Prereq: FLM 1045 & FLM 1055. This course teaches advanced video editing techniques and theory utilizing the industry standard editing software. Students will understand the use of color correction technique. Students will utilize keyframes, motion effects and advanced compositing techniques.

FLM 2200 – Introduction to Film Criticism **4 cr**

Prereq: THEA 1013, THEA/FLM 1023, or THEA/FLM 1070. Film or theatre majors explore in-depth critical aspects of film including aesthetic and technical developments that have influenced film from its inception to present day. Students will view key films. Some R-rated films presented.

FLM 2500 – Bootcamp: Advanced Film Production Techniques **4 cr**

The Bootcamp course provides the student with an experience comparable to a large-scale professional film shoot. Students are assigned to departments, including camera, sound, production, etc. working as a team to produce a 15-20 minute film.

FLM 2510 – Adv Video Prod - Documentary **4 cr**

Prereq: COMM 2200 or FILM 1055. Provides advanced video production experiences for students who already have significant video production experience. Students work alone to produce short format documentary films and in groups to produce long format film projects.

FLM 2715 – Cinematography **4 cr**

Prereq: FLM 1045, FLM 1055, ART 1310. This course covers advanced lighting techniques and camera technology for digital cinematography. Through lab demonstrations, studio projects and location settings, students will utilize professional motion-picture equipment to develop various compositional and technical skills. Digital camera equipment, lighting, filters, and other film technology will be explored.

FLM 2750 – Film Prod. Techn. Internship **1-3 cr**

Prereq: Instructor approval. Students participate in Film Production internships through approved employers. Students learn practical work experience as it applies to their career in the Film Production Industry.

FLM 2800 – Film Acting for Directors **1 cr**

Coreq: FLM 2801. Course demystifies the actor's craft and develops a range of techniques through scene study, improvisations, exercises and script analysis. Techniques are invaluable to directors and writers.

FLM 2801 – Film Acting for Directors Lab **2 cr**

Prereq: THEA 1013, THEA/FLM 1023, or THEA/FLM 1070. Coreq: FLM 2800. This lab course provides practice time to focus on the principles discussed in FLM 2800.

FLM 2900 – Special Topics **3-4 cr**

Prereq: THEA 1013, THEA/FLM 1023, or THEA/FLM 1070. A course designed for students to explore specific areas of interest in a classroom setting.

FMTA 1110 – Maintenance Electricity I **5 cr**

Prereq: FMTA 1470 or MATH 1010 or appropriate Accuplacer score. Basic AC/DC Electricity course discussing terminology, circuits, testing equipment, troubleshooting, outlets, three way switching, single pole switching, repair/replacement, splicing wires, working knowledge of code, lighting, and electrical safety rules and procedures in lock-out tag-out. First Aid/CPR course.

FMTA 1120 – Maintenance Electricity II **5 cr**

Prereq: FMTA 1110. Continued training in industrial motor control principles and electrical magnetic controls, ladder diagramming and relay logic, reduced voltage starting, braking and speed control, symbols, design strategies, NEC codes, instrumentation, distribution and various control systems.

FMTA 1210 – Maintenance HVAC **5 cr**

Prereq: FMTA 1120. Includes safety, basic HVAC principles/practices, EPA refrigerant evacuation/reclamation Certification, basic refrigeration, basic heating, troubleshooting, tools, and equipment. Course work for RMGA Certification will be presented with testing optional.

FMTA 1220 – Maintenance Plumbing **5 cr**
Prereq: FMTA 1470 or MATH 1010 or appropriate Accuplacer score and FMTA 1210 or approval of Program Sponsor.

FMTA 1470 – Math for the Trades (QS) **5 cr**
Customized course in applied mathematics starting with whole numbers, formulas, fractions, decimals, algebra, geometry, and trigonometric functions.

FMTA 2310 – Maintenance Constr/Mechanic **5 cr**
Prereq: FMTA 1470 or MATH 1010 or appropriate Accuplacer score and Program Sponsor approval.

FMTA 2320 – Maintenance Pipefitting **5 cr**
Prereq: Approval of Program Sponsor.

FMTA 2410 – Mntnc. Welding/Trowel Trades **5 cr**
Prereq: FMTA 1470 or MATH 1010 or appropriate Accuplacer score and Program Sponsor approval.

FRN 1010 – Beginning French I **5 cr**
First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the French culture. Lab attendance is required.

FRN 1020 – Beginning French II (LN) **5 cr**
Prereq: FRN 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the French culture. Lab attendance is required.

FRN 1300 – Beginning Conversation **1 cr**
Prereq: FRN 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

FRN 1900 – Special Studies in French **1-2 cr**
Prereq: Instructor approval. In this course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

FRN 2010 – Intermediate French I **4 cr**
Prereq: FRN 1020 or instructor approval. Third in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of second year is to increase functional language ability. Emphasis is on proficiency. Lab attendance required.

FRN 2020 – Intermediate French II **4 cr**

Prereq: FRN 1020 or instructor approval. Second-year French courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

FRN 2300 – Conversation **1 cr**

Prereq: FRN 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

FRN 2700 – Introduction to Literature **3 cr**

Prereq: FRN 2020 or FRN 2010. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

FRN 2710 – Introduction to French Film **3 cr**

Prereq: FRN 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in French. Lab attendance required.

FRN 2900 – Special Topics in French **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in French language and culture. Lab attendance is required. May be repeated for credit.

GEN 1000 – Gen Computer & Internet Tools **3 cr**

Introduction to genealogy computer programs and basic genealogy skills used to conduct research and document records with appropriate citations. Students will learn how to use internet tools for genealogy research.May take Department Challenge Exam in place of course.

GEN 1010 – Intro to Genealogical Research **3 cr**

Prereq: GEN 1000 w/C grade or better or GEN 1000 Department Challenge Exam. Students explore record groups and repositories which contain 10 U. S. sources known to provide evidence linking families from students' lifetime to 1850 and solve research problems by evaluating evidence.

GEN 1011 – U.S. Record Groups **3 cr**

Prereq: Completion of GEN 1010 w/C grade or better or GEN 1010 Department Challenge Exam. Course will provide an in-depth study of sources, records, and methodologies not covered in GEN 0010 essential to documenting and verifying family history and genealogies within the U.S. and focusing on a time period prior to 1850.

GEN 1012 – International Record Groups **3 cr**
Prereq: Completion of GEN 1010 w/C grade or better or GEN 1010 Department Challenge Exam. Students examine and use major international record groups in genealogical research. Paleography, record recognition and usage, research strategies, and usage of the international collections at various repositories will be covered.

GEN 1016 – Tracing Immigrant Origins **3 cr**
Prereq: Completion of GEN 1011 or 1012 w/C grade or better. Introduction to methodologies and practices to extend family genealogies beyond the U.S. to other countries by finding evidence in unique U.S. records to link localities to International locations.

GEN 1110 – Genealogy Writing & Publishing **3 cr**
Prereq: Completion of GEN 1016 w/C grade or better. Introduction to standards in genealogical writing, reporting, documentation and presentation of genealogical data. Students will also learn how to publish a family history in various medias.

GEN 1111 – Genealogy & Family History Writing **3 cr**
This course introduces students to various forms of genealogical and family history writing, such as a compiled genealogy, four-generation report, research report, record resource guide, and family history narrative. It also introduces students to analytical reading, the writing process, analysis and evaluation of genealogical research and sources, and documentation styles.

GEN 1150 – Preparing for U.S. Credentials **3 cr**
Prereq: Completion of GEN 1110 w/C grade or better. Students finalize an ICAPGen credentialing application, a 4-generation report (with record citations linked to original images and research planners, and an analysis of evidence), plus assemble a research portfolio, and take a practice exam.

GEN 1151 – Preparing for Intl Credentials **3 cr**
Prereq: Completion of GEN 1110 w/C grade or better. Students finalize international credentialing application, a 4-generation report (with record citations linked to original images and research planners, and an analysis of evidence), plus assemble a research portfolio, and take a practice exam.

GEO 1010 – Intro to Geology (PS) **3 cr**
An introduction to the processes and materials that shape the earth. It includes mineral identification, map reading, deposition, volcanism, earthquakes, and continental drift.

GEO 1060 – Environmental Geology **3 cr**
Coreq: GEO 1065. This is the study of natural and man-made threats to human life and property. Their causes, preventions, and mitigation are covered.

GEO 1065 – Environmental Geology Lab **1 cr**
Coreq: GEO 1060. This course provides hands-on experience in the lab, the community, and the field with subjects covered in GEO 1060.

GEO 1110 – Physical Geology **3 cr**
Coreq: GEO 1115. This is a survey of the earth's crust and crustal physical processes, basic earth materials constituting the lithosphere and hydrosphere. Class is designed for Geology majors.

GEO 1115 – Physical Geology Lab **1 cr**
Coreq: GEO 1110. This is a laboratory experience in physical geology.

GEO 1220 – Historical Geology **3 cr**
Prereq: GEO 1110 and GEO 1115. Coreq: GEO 1225. Class covers physical and biological history of earth development of major structural and stratigraphic features; also an introduction to fossil record.

GEO 1225 – Historical Geology Lab **1 cr**
Coreq: GEO 1220. This twice per week class is to provide hands-on experience in the lab, the community, and the field with subjects covered in GEO 1220.

GEO 2350 – Field Studies in Geology **3 cr**
Prereq: Instructor approval. Course provides an introduction to geology field studies. Covers local geology, rock and mineral identification, map reading, structure recognition and relevant geologic processes.

GEOG 1000 – Physical Geography (PS) **3 cr**
A scientific and spatial understanding of natural processes that shape the surface of our planet and the systems that exist between the atmosphere, climate, hydrosphere, lithosphere, and biosphere within the context of the human environment.

GEOG 1300 – Regional Geography (ID) **3 cr**
The study of the cohesive elements that constitute the major cultural regions of the world. Course includes, but is not limited to the introduction and analysis of contemporary cultural, political, economic, and environmental issues.

GEOG 1400 – Human Geography (ID) **3 cr**
The thematic study of human activity (population, religion, language, migration, industry) and the global distribution of these activities.

GEOG 1600 – Intro to Geographic Science **3 cr**

This course will provide students will a strong understanding of the complex interaction between the physical and cultural environments of geography along with an understanding of the geospatial technologies, spatial pattern recognition, and methodology used in geographic science.

GEOG 1700 – Natural Disasters (PS) **3 cr**

Course introduces natural disasters and the related energy and processes which cause them. An awareness of the impact on human activity is an integral component, investigating methods of prevention, preparation, and mitigation of damage.

GEOG 1780 – Remote Sensing of Earth (PS) **3 cr**

Using the geospatial technology of satellite imagery, this hands-on course will investigate land-cover patterns of the physical and social environmental spatially and historically. Topics include: electromagnetic principles, sensors and their characteristics, image data sources, and image classification, interpretation, and analysis. Online students need access to Microsoft Windows.

GEOG 1800 – Mapping Our World (ID) **3 cr**

Introduction to the fundamentals of Geospatial Technology, including Geographic Information Science (GIS), Global Positioning Systems (GPS), cartography, remote sensing, and spatial analysis through a series of hands-on computer-based exercises. Participants will learn how to utilize geospatial technology to address social and environmental issues. Online students need access to Microsoft Windows.

GEOG 1820 – Intermediate GIS **4 cr**

Prereq: GEOG 1800. Course builds on the skills and concepts covered in GEOG 1800 with a hands-on focus on coordinate systems, vector models, raster models, data acquisition, spatial data accuracy, attribute data management, cartographic concepts, primary and secondary source data, geocoding and geoprocessing skill sets.

GEOG 1850 – Environmental Field Studies **3 cr**

Prereq: GIS 1800 or concurrently, or instructor approval. GIS is applied to basic interpretation of the interrelationships inherent among the physical, cultural, and technological footprints of a region. Field study area may be at a local, national, or international scale.

GEOG 1900 – Special Projects **1-3 cr**

Prereq: Instructor approval. With instructor as facilitator, students develop and pursue an individualized curriculum, using ArcView/GIS procedures. .

GEOG 2000 – Geography Co-Op **2-4 cr**

Prereq: Instructor approval. Cooperative education represents flexibility and alternative opportunities for students to complete portions of their educational goals through new learning associated with study related internships/employment.

GEOG 2100 – Cartography & Visualization **4 cr**

Prereq: GEOG 1800 or instructor approval. This course introduces fundamental cartographic concepts. Successful students will be able to employ design principles to create and edit effective visual representations of data (e.g. maps, graphs and diagrams) in different formats (e.g. hardcopy, digital, web). Specific topics include the ethical and appropriate application of map scale, map projections, generalization and symbolization.

GEOG 2200 – Urban/Environ. Issues (ID) **3 cr**

Class investigates the effect of encroachment of the urban environment upon the natural environment, and the complexity of interrelationships at local, national, and global levels, to define the individual's role.

GEOG 2300 – Statistics for GIS **3 cr**

Prereq:GEOG 1820; and MATH 1010 or appropriate Accuplacer score. An introductory course in nonspatial and spatial descriptive statistics and inferential problem solving with probability, sampling, and estimation from a geographic and spatial perspective. All examples and real-world problems will focus on both the physical and cultural environments and will provide a solid foundation for those seeking statistical skill sets in the geospatial industry.

GEOG 2400 – Data Acquisition & Management **3 cr**

Prereq: GEOG 1820. The course addresses the interpretation and understanding of a variety of data formats available in GIS. It introduces the fundamental concepts of primary GIS data creation and discusses quantitative techniques for collection, classification, and management of geographical data.

GEOG 2600 – Python for GIS **4 cr**

Prereq: GEOG 1820. The geospatial industry needs professionals trained in automation of geoprocessing funtions using the programming language of Python for GIS and other geospatial technologies. Course will cover the fundamentals of Python scripting to meet industry needs. Topics include: basic concepts using Python, creating and writing Python script for geoprocessing, and customizing and automating Python in GIS.

GEOG 2700 – Open Source GIS **3 cr**

Prereq: GEOG 1820. An introductory course that describes Open Source software for both desktop and internet GIS applications. Students will learn the concepts of Open Source software, and the leading desktop and web mapping Open Source software packages such as Quantum GIS (QGIS), GRASS GIS, Google Maps, OpenStreetMap, and MapServer. Students will apply technology in lab exercises using real-world data.

GEOG 2800 – Web GIS **4 cr**

Prereq: GEOG 1820. The course addresses the interpretation and understanding of a variety of data formats available in GIS. It introduces the fundamental concepts of primary GIS data creation and discusses quantitative techniques for collection, classification, and management of geographical data.

GEOG 2900 – Independent Projects **1-3 cr**

Prereq: Instructor approval. Course provides an avenue for recertification/endorsements for teachers, or an opportunities for students with varying credit needs. Individual topics will be mutually defined by instructor and student. Course may be taught with a Service Learning component.

GEOG 2920 – Spatial Analysis **4 cr**

Prereq: GEOG 1820. This course introduces students to problem-solving and decision-making using geospatial analysis techniques, skillsets, and knowledge which are applicable to a wide range of disciplines.

GER 1010 – Beginning German I **5 cr**

First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the German culture. Lab attendance is required.

GER 1020 – Beginning German II (LN) **5 cr**

Prereq: GER 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the German culture. Lab attendance is required.

GER 1300 – Beginning Conversation **1 cr**

Prereq: GER 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

GER 1900 – Special Studies in German **1-2 cr**

Prereq: Instructor approval. In this course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

GER 2010 – Intermediate German I **4 cr**

Prereq: GER 1020 or instructor approval. Second-year German courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

GER 2020 – Intermediate German II **4 cr**

Prereq: GER 1020 or instructor approval. Second-year German courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

GER 2300 – Conversation **1 cr**

Prereq: GER 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

GER 2700 – Introduction to Literature **3 cr**

Prereq: GER 2010 or GER 2020. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

GER 2710 – Introduction to German Film **3 cr**

Prereq: GER 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in German. Lab attendance required.

GER 2900 – Special Topics in German **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in German language and culture. Lab attendance is required. May be repeated for credit.

HCCA 1110 – Heavy Civil Carpenter 1A **5 cr**

Prereq: APPR 1470 or appropriate Accuplacer score. This course is an introductory course in heavy civil carpentry. Students will gain a basic knowledge of construction safety, hand and power tools, blueprint reading, and an introduction to concrete and related materials.

HCCA 1120 – Heavy Civil Carpenter 1B **5 cr**

Prereq: HCCA 1110. This course will provide students with knowledge and skills concerning the properties of concrete and an introduction to foundations and slab on grade methods, and techniques for reinforcing, handling and placing concrete.

HCCA 1210 – Heavy Civil Carpenter 2A **5 cr**

Prereq: HCCA 1120. This course provides students with an in-depth understanding of vertical and horizontal forms. An introduction to distance measurement and leveling as well as site layout is also presented.

HCCA 1220 – Heavy Civil Carpenter 2B **5 cr**
Prereq: HCCA 1210. This course introduces students to angular measurement techniques, welding techniques and practices, below-grade construction processes, and structural bridge building. Project management skills are also presented.

HIST 1100 – Western Civ. to 1300 (SS) **3 cr**
Prereq: RDG 0900. A survey of the development of Western Civilization to 1300. Special emphasis is placed on the cultural, economic, social and political contributions of ancient and medieval cultures in the Western civilization.

HIST 1110 – Western Civ Since 1300 (SS) **3 cr**
Prereq: RDG 0900. This is a survey of the development of Western Civilization since 1300. Special emphasis is placed on the cultural, economic, social, and political contributions of European culture.

HIST 1300 – Colonial Latin America (SS) **3 cr**
This is a survey of Latin America from pre-Columbian times to an era of independence. Emphasis is placed on the continuum of Latin as well as native cultures. Covers Latin American History from colonization to independence in the 1820s focusing on the interaction of Europeans, Africans, Native Americans and the imposition of European institutions and culture on subject populations.

HIST 1310 – Modern Latin America(SS) **3 cr**
This course surveys Latin America from the era of independence to the present. Examines the political, social and economic issues and their diverse influence in shaping contemporary Latin America.

HIST 1450 – Middle Eastern Civ (SS) **3 cr**
An introduction to the beginnings of civilization in river valleys of Mesopotamia and Egypt to the end of the 18th century. Emphasizes cultural and religious developments that contributed to modern Western European and Islamic civilizations.

HIST 1460 – Modern Middle Eastern Civ (SS) **3 cr**
Survey of Middle East from late 18th Century to present. Emphasis on interactions between the various religious and ethnic groups in region as they find ways to fit into modern world and respond to the rise of Western powers.

HIST 1500 – World History to 1500(SS) **3 cr**
This is a survey of the development of civilizations in the world to 1500. Special emphasis is placed on the cultural, economic, social and political contributions of each civilization.

HIST 1510 – World History Since 1500 (SS) **3 cr**
This is a survey of the development of civilizations in the world since 1500. Special emphasis is placed on the cultural, economic, social and political contributions of World history.

HIST 1700 – American Civilization (AI) **3 cr**

Prereq: RDG 0990. This course covers American History from the Pre-Columbian period to the present. It provides a thorough examination of the major social, political, and economic events, issues, and themes of the period. Course may be taught with a Service Learning component.

HIST 1900 – Special Studies in History **1-3 cr**

Prereq: Instructor approval. Under the instructor's supervision, students develop and follow an individualized curriculum. Designed to allow students with special interests in a particular area of history to work with the instructor in creating a course and study plan. Course is research oriented.

HIST 2200 – Americanization (SS,DV) **3 cr**

This course focuses on the challenges of diverse ethnic groups in their struggle for inclusion in American society. Politics and economics are examined in the context of power structures that created privilege and how marginalized groups became privileged over time.

HIST 2600 – Native American Voices (SS,DV) **3 cr**

This course examines the history and diverse cultures of indigenous peoples in the U.S. from the pre-Columbian period to the present. The focus is on the perspective of the Native Americans as they experienced the imposition of European and American institutions and fought to survive and preserve cultural integrity and tribal sovereignty. It challenges common stereotypes and ethnocentric views.

HIST 2700 – US History to 1877 (SS) **3 cr**

Provides a thorough examination of American History from the Pre-Columbian period through Reconstruction, with a focus on the challenges that diverse groups faced as they struggled for an inclusive place in American society.

HIST 2710 – US History Since 1877 (SS) **3 cr**

American History is covered from Reconstruction to the present. In addition to thorough treatment of the major events of the period, this course will focus on the challenges that diverse groups faced as they struggled for an inclusive place in American society.

HIST 2800 – Utah`s Diverse Heritage(SS,DV) **3 cr**

Utah has always been a multicultural, multiethnic and multiracial society. This course connects the historical conflict of the dominant and subdominant, the powerful and less powerful, and the privileged and less-privileged from Pre-Columbian times to the present.

HIST 2900 – Special Topics **3 cr**

An in-depth study of a particular topic in American History. It involves readings, discussion, research, and intensive writing.

HIST 2950 – Archival Internship **3 cr**

Involves 45 hours at the Utah Archives, as well as regular one-on- one meetings with the instructor to discuss and organize a research project that grows out of the archival work. It provides students the opportunity to learn how the archives function, to engage in primary research and writing, and to make professional contacts.

HIT 1010 – Introduction to Computers for Health Information Workers **1 cr**

Students will learn basic concepts related to computer hardware, software, digital security, data entry and management of data. Students will acquire basic computer skills in word processor, spreadsheet, presentation, web browser, email, calendar, imaging and scanning with focus on navigation, accuracy and analysis.

HIT 1020 – Basic Diagnosis Coding **3 cr**

Prerequisite: Program Coordinator's Persmission. Recommended co-requisites: HIT 1030, HIT 1040, and HIT 1100. Introduction and practice with International Classification of Diseases (ICD) using current (ICD-9) coding procedures as well as instruction toward ICD-10 implementation & Health Care Common Procedural Coding System (HCPCS) for optimal reimbursements as practiced in the medical setting.

HIT 1030 – Basic Procedure Coding **3 cr**

Prereq: Program Coordinator's permission. Recommended co-requisites: HIT 1020, HIT 1040, and HIT 1100. Introduction and practice with Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System(HCPCS) for optimal reimbursements, as practiced in the medical setting.

HIT 1040 – Pathophysiology for Health Information Technology **3 cr**

Prereq: Program Coordinator's permission. Recommended co-requisites: HIT 1010, HIT 1020, HIT 1030, HIT 1100. Discussion of structure and function of full body systems. Emphasis will be placed on anatomical orientation. Specific disease causes and processes. Structure and functions of the full body systems will prepare the students for the Health Information Technology profession.

HIT 1100 – Medical Terminology for Health Information Technology **3 cr**

Prereq: Program Coordinator's permission. Recommended coreq: HIT 1010, HIT 1020, HIT 1030, HIT 1040. A body system approach covering medical word roots, suffixes and prefixes. Emphasis is placed on pronunciation through use of the textbook CD, spelling and proper usage of medical terms. Medical abbreviations are also introduced as they relate to Health Information Management.

HIT 2110 – Health Informatics **3 cr**

Prereq: HIT 1010 or Program Manager's permission. Introduction to health informatics, which combines healthcare, information technology, and business. Students will focus on the implementation and optimization of the information systems that support clinical practice and the communication infrastructure that enables critical information to be utilized for healthcare administration.

HIT 2120 – Pharmacotherapy **2 cr**

Prereq: HIT 1100 and HIT 1040 or Program Manager's permission. Students will be introduced to current drug information through a body system approach. Emphasis is placed on the understanding of the action of drugs such as: absorption, distribution, metabolism and excretion of drugs by the body. Drug classification of most commonly prescribed drugs is introduced.

HIT 2220 – Intermediate Diagnostic Coding **3 cr**

Prereq: HIT 1020, HIT 1030, HIT 1040, HIT 1100 or Program Manager's permission. Coreq: HIT 2230. This course focuses on application of intermediate principles learned in HIT 1020 using the International Classification of Disease(ICD). Students will code a wide range of original source documents they may encounter on the job. The student will translate source documents & apply previously learned coding techniques in ICD-10-CM and ICD-9-CM concepts.

HIT 2230 – Intermediate Procedure Coding **3 cr**

Prereq: HIT 1100, HIT 1020, HIT 1030 & HIT 1040 or Program Manager's permission. Coreq: HIT 2220. This course focuses on learning and mastering the process of building codes in the new procedure coding system, ICD-10-PCS. Students will code a wide range of original source documents they may encounter on the job. Each of the body systems are methodically examined, with a thorough review of the function and anatomy of the systems, along with the root operations, body parts, approaches, devices and qualifiers in each body system.

HIT 2240 – Healthcare Data, Content and Structure **3 cr**

Prereq: HIT 1100, HIT 1020, HIT 1030 & HIT 1040 or Program Manager's permission. Coreq: HIT 2220. This course focuses on learning and mastering the process of building codes in the new procedure coding system, ICD-10-PCS. Students will code a wide range of original source documents they may encounter on the job. Each of the body systems are methodically examined, with a thorough review of the function and anatomy of the systems, along with the root operations, body parts, approaches, devices and qualifiers in each body system.

HIT 2250 – Healthcare Delivery Systems **3 cr**

Prereq: HIT 1010 or Program Manager's permission. Course provides a comprehensive overview of the structures and operations of the healthcare system. Learn the organization of healthcare delivery in the United States and healthcare organizations structure and operation. Introduction to healthcare standards and regulations, such as federal and state law and medical ethics.

HIT 2260 – Healthcare Reimbursement **3 cr**

Prereq: HIT 1010, 1020, & 1030 or Program Manager's permision. This course will introduce healthcare billing and reimbursement, including standard practices of insurance claim billing for major health insurance entities, federal healthcare legislation and compliance. Ethical standards of practice will be applied and promoted through the accuracy of coding, billing and the revenue cycle process.

HIT 2270 – Professional Practice Experience Capstone/Practicum **1 cr**
Prereq: Program Approval. In this course the student will have the opportunity to experience on-the-job training while serving a 50-hour unpaid practicum.

HLAC 1000 – Cardio Fitness (LW) **1 cr**
A workout class that emphasizes the correct concepts of a cardiorespiratory workout, including target heart rate zones and perceived exertion. Appraisal of student fitness level included. Emphasis is on lifelong wellness.

HLAC 1013 – Body Strength and Tone (LW) **1 cr**
A group conditioning class that uses a variety of equipment to increase muscular strength and endurance. Students will learn to monitor their workout intensity, and safely use a variety of training methods. Lifelong wellness is emphasized.

HLAC 1014 – CrossFit (LW) **1 cr**
A varied, high-intensity, functional movement strength and conditioning class to build cardio-respiratory endurance, strength, flexibility, power, speed, coordination, agility, and balance. Lifetime wellness concepts will be emphasized.

HLAC 1015 – Spinning (LW) **1 cr**
A rigorous aerobic workout class on stationary bikes. Students learn to monitor their target heart rate and personal training zones for increased cardiovascular endurance and muscular strength. Lifelong fitness is emphasized.

HLAC 1020 – Step (LW) **1 cr**
Aerobic conditioning designed to develop cardiovascular endurance, strength, and coordination. Routines include step benches and vigorous exercise, set to music. Course is designed for fun and to encourage lifelong fitness.

HLAC 1025 – Interval Training (LW) **1 cr**
A group aerobic class which may include jogging, bands, interval training, and vigorous exercise, set to music. This course covers proper guidelines to monitor target heart rate, technique and safety. Designed to encourage lifelong fitness.

HLAC 1030 – Kickboxing (LW) **1 cr**
A workout class combining techniques of boxing and the martial arts. Heart rate and personal training zones are taught to help students develop cardiovascular endurance and muscular strength. Emphasis is on lifelong wellness.

HLAC 1035 – Zumba (LW) **1 cr**

An interval class that combines Latin/international rhythms with dance and aerobic moves for a fun cardiovascular workout. This class encourages fitness and wellness.

HLAC 1036 – Hula Fitness (LW) **1 cr**

This course includes a group fitness total body workout inspired by dances of the Pacific Islands. Students will learn how to increase aerobic fitness, muscular endurance & flexibility. The class emphasizes lifelong wellness concepts.

HLAC 1040 – Belly Dancing Basics (LW) **1 cr**

This class uses Middle Eastern Dance in a low impact cardio workout to stretch and strengthen muscles, especially core. It can help improve posture and increase concentration while having fun. This class encourages lifetime health/wellness.

HLAC 1046 – Jog/Walk (LW) **1 cr**

Student will engage in a personalized jogging and/or walking program. Emphasis is on helping students lose fat, firm up, improve cardiovascular endurance and ease stress. Emphasis is on lifelong wellness.

HLAC 1051 – TRX (LW) **1 cr**

TRX is suspension training using straps, body weight, and angles for core and functional strength work. TRX includes flexibility, stability, balance, strength, power and cardio conditioning. Lifetime wellness concepts will be emphasized.

HLAC 1052 – Boot Camp (LW) **1 cr**

High-intensity interval class that uses cardio-respiratory, speed, and endurance drills combined with muscular strength and endurance exercises for a fun and challenging workout to increase fitness. Lifetime wellness is emphasized.

HLAC 1054 – CorePilatesBarre (LW) **1 cr**

This workout class is a high intensity, fun mix of Pilates, ballet inspired exercises, yoga, and athletic conditioning in a goup exercise setting. This class encourages lifelong wellness concepts.

HLAC 1055 – Pilates I (LW) **1 cr**

This is a Pilates mat class that uses breathing, core conditioning and body awareness in a series of dynamic exercises to stretch, strengthen and streamline the body. This course emphasizes lifelong fitness and wellness.

HLAC 1056 – Pilates II (LW) **1 cr**

Recommended prereq: HLAC 1055 or previous Pilates experience. Advanced Pilates Mat Class that will utilize equipment and delve deeper into Pilates principles of conditioning. This class will teach principles of form and alignment and emphasize lifelong health and wellness.

HLAC 1057 – Yoga I (LW) **1 cr**

An introduction to Hatha Yoga stretching, breathing, and relaxation techniques. It is designed for stress management, meditation, peace of mind and self-awareness. This class emphasizes overall balance and lifelong wellness concepts.

HLAC 1058 – Yoga II (LW) **1 cr**

Recommended prereq: HLAC 1057. A more advanced practice of Hatha Yoga stretching, breathing and relaxation techniques. It is designed for stress management, meditation and increased self-awareness. This course emphasizes life balance and lifelong wellness concepts.

HLAC 1062 – Flexibility for Fitness (LW) **1 cr**

A comprehensive stretching program to increase the range of joint mobility, through a regular flexibility exercise program. This course covers safe practice and enjoyable ways to increase muscular flexibility. Emphasis is on lifelong wellness.

HLAC 1073 – Aerobic Circuit (LW) **1 cr**

A cardiovascular workout combined with strength training. It covers the use of resistance equipment while alternating with aerobic intervals. This course is excellent for cross training and muscle toning. Emphasis is on lifelong wellness.

HLAC 1080 – Strength Training I (LW) **1 cr**

A basic resistance training course which teaches proper lifting techniques and methods to increase muscular strength and endurance. Free weights and resistance machines will be used. Emphasis is on lifelong fitness.

HLAC 1081 – Strength Training II (LW) **1 cr**

Recommended prereq: HLAC 1080 . A more advanced resistance training class that teaches proper lifting techniques to increase muscular strength and endurance. Free weights and resistance machines will be used. Emphasis is on lifelong fitness.

HLAC 1082 – Strength Training III (LW) **1 cr**

Prereq: Instructor approval. This is the fall semester, intercollegiate athletic team class that teaches and practices advanced resistance training methods to increase muscular strength and endurance. Emphasis is on lifelong fitness.

HLAC 1083 – Strength Training IV (LW) **1 cr**

Prereq: Instructor approval. This is the spring semester, intercollegiate athletic team class that teaches and practices advanced resistance training methods to increase muscular strength and endurance. Emphasis is on lifelong fitness.

HLAC 1096 – Fitness for Life (LW) **1 cr**
Wellness and healthy lifestyle concepts are taught with an emphasis on aerobic exercise and physical fitness. Lecture/ Lab format. Students will design and engage in a fitness program. Includes fitness appraisals and behavior change with emphasis on lifelong wellness.

HLAC 1100 – Tennis I (LW) **1 cr**
Covers the basic strokes, shots, safety, rules, etiquette, and strategy of tennis. Course is designed for fun, competition, and to encourage lifelong participation.

HLAC 1101 – Tennis II (LW) **1 cr**
Recommended prereq: HLAC 1100. Course is for the intermediate player. Students will learn to adjust their tennis strokes according to power, control, height of bounces, speeds and angles. Course is designed for fun, competition, and encourages lifelong participation.

HLAC 1105 – Badminton (LW) **1 cr**
Course covers basic concepts of singles and doubles badminton. Includes basic strokes, serves, shots, safety, rules, and strategy. Course is designed for fun and encourages lifelong participation.

HLAC 1110 – Racquetball I (LW) **1 cr**
Covers basic fundamentals of racquetball. Includes basic strokes, shots, safety, rules, etiquette, and strategy. Course is designed for fun, competition, and to encourage lifelong participation.

HLAC 1111 – Racquetball II (LW) **1 cr**
Recommended: HLAC 1110. This course teaches the intermediate skills of racquetball, with emphasis on strategy and a more competitive style of play. It is designed for fun, competition, and encourages lifelong participation.

HLAC 1125 – Pickleball (LW) **1 cr**
This course is designed for students to learn the fundamentals and skills of pickleball, which is a combination of tennis, badminton, and ping pong. This course includes lifelong wellness concepts.

HLAC 1130 – Golf I (LW) **1 cr**
Covers the basic fundamentals of golf. Emphasis is on the knowledge and practice of individual skills. Rules and etiquette will be taught. Course is designed for fun to encourage lifelong participation.

HLAC 1131 – Golf II (LW) **1 cr**
Recommended prereq: HLAC 1130. Course teaches intermediate golf skills, techniques, rules, etiquette and strategies. It is designed for fun, competition, and encourages lifelong participation.

HLAC 1145 – Bowling I (LW) **1 cr**

Covers the basic skills of bowling including: ball selection, fit, approach and delivery. History, rules, safety, terminology, and etiquette will also be covered. Designed for fun and to encourage lifelong participation.

HLAC 1146 – Bowling II (LW) **1 cr**

Recommended prereq: HLAC 1145. Course continues the study and practice of bowling. Intermediate skills, techniques and strategies will be taught. Course is designed for fun, competition, and encourages lifelong participation.

HLAC 1200 – Basketball I (LW) **1 cr**

This course covers the fundamentals of basketball. Students will increase individual skills and gain an understanding of the regulations that govern this sport. It is designed for fun, competition, and to encourage lifelong participation.

HLAC 1201 – Basketball II (LW) **1 cr**

Recommended prereq: HLAC 1200. This course teaches the intermediate skills of basketball, with emphasis on strategy and a more competitIve style of play. It is designed for fun, competition, and encourages lifelong participation.

HLAC 1210 – Volleyball I (LW) **1 cr**

Covers the basic fundamentals of volleyball. Students will increase individual skills and gain an understanding of the regulations that govern this sport. It is designed for fun, competition, and to encourage lifelong participation.

HLAC 1211 – Volleyball II (LW) **1 cr**

Recommended prereq: HLAC 1210. This course covers intermediate skills and team concepts, including 6-person, 3-person and 2-person intense transition drills. It is designed for fun, competition, and encourages lifelong participation.

HLAC 1212 – Volleyball III (LW) **1 cr**

Recommended prereq: HLAC 1211. This course covers skills and team concepts for advanced player, including advanced techniques in offensive and defensive systems and blocking principles. It is designed for fun, competition, and lifelong participation.

HLAC 1213 – Sand Volleyball (LW) **1 cr**

This class teaches the principles of sand volleyball including doubles, three, four or six player combinations. Basic volleyball skills will be taught. This class encourages fitness and wellness.

HLAC 1230 – Soccer I (LW) **1 cr**

This course covers basic soccer skills including ball control, heading, passing and shooting. This course teaches rules and strategies with emphasis on team play. It is designed for fun, competition, and to encourage lifelong participation.

HLAC 1232 – Competitive Soccer (LW) **1 cr**

Prereq: Instructor approval. This course is designed for the club soccer team at SLCC. instructor approval. is required. The class combines skill development, practice, and competition, and encourages lifelong fitness and wellness.

HLAC 1245 – Ultimate Frisbee (LW) **1 cr**

This course teaches the basic rules, regulations and skills required for participation in ultimate frisbee. This class emphasizes lifelong wellness concepts.

HLAC 1310 – Water Fitness (LW) **1 cr**

This water exercise course gives students the opportunity to increase cardiorespiratory fitness, muscular endurance and flexibility in a low impact environment. This class emphasizes lifelong wellness concepts.

HLAC 1350 – Scuba I (LW) **1 cr**

Prereq: Must be able to swim. This course covers basic techniques, safety and equipment used in scuba diving in an indoor pool setting. Students will learn about pressure, dive tables, respiration and dive planning. It emphasizes lifelong fitness and wellness concepts.

HLAC 1351 – Scuba II (LW) **1 cr**

Recommended prereq: HLAC 1350, instructor approval or Open Water Course. This course covers underwater search patterns, principles of underwater physics, volume and pressure changes, and limited visibility diving. Specialty equipment, deep diving and photography will be covered. Lifelong wellness is emphasized.

HLAC 1410 – Tai Chi Chuan (LW) **1 cr**

This course covers basic knowledge and practice of Yang style Tai Chi Chuan Peking Form, and Chi Gung exercises, theories, and strategies. This course emphasizes martial arts for fitness rather than as a combative practice.

HLAC 1413 – Qi Gong (LW) **1 cr**

A 5000 year old Chinese practice of slow movements combined with deep breathing to bring a peaceful mind, calm spirit, more capability dealing with daily stresses and disease along with an invigorated body. Health/wellness component taught.

HLAC 1440 – Aikido I (LW) **1 cr**

A Japanese martial arts incorporating joint-lock and throwing techniques applied in self-defense. Class helps develop strength, flexibility, posture/balance, concentration, awareness, self-observation, and lifelong fitness/wellness.

HLAC 1442 – Brazilian Capoeira (LW) **1 cr**

Capoeira is a diverse Brazilian martial art which incorporates self-defense, kicks, ground moves, acrobatics and music. Participants gain strength, flexibility, coordination, and endurance. This course emphasizes lifelong wellness concepts.

HLAC 1445 – Taekwon-Do I (LW) **1 cr**

This course covers the basic techniques, conditioning and self-defense movements of this Korean martial art. It provides opportunity to learn kicking, blocking, punching and self-defense techniques, and emphasizes lifelong wellness.

HLAC 1446 – Taekwon-Do II (LW) **1 cr**

Prereq: HLAC 1445 or instructor approval. Continuation of HLAC 1445 with emphasis on intermediate technique, body conditioning and self-defense. Students will perform intermediate kicks, blocks, patterns and board breaking. Lifelong wellness concepts will be emphasized.

HLAC 1449 – Kung Fu I/Wing Chun (LW) **1 cr**

Introduction to Wing Chun Kung Fu including calisthenics and basic techniques. Will include history, theory, fight strategy, self defense, sticky hand, grab, and grappling techniques. Emphasis is on lifelong wellness.

HLAC 1450 – Kung Fu I/Hung Gar (LW) **1 cr**

This course covers Hung Gar Kung fu techniques including calisthenics/conditioning (cardiovascular, forearms, and shins). It includes history, theory, fight strategy, self defense, and grappling techniques. Emphasis is on lifelong wellness.

HLAC 1451 – Kung Fu II (LW) **1 cr**

Recommended prereq: HLAC 1450 or HLAC 1449 or instructor approval. It continues the study of Hung Gar Kung fu, emphasizing theory, fight strategy, self defense, grab techniques and 1st traditional Hung Gar Kung fu form. Conditioning focus is on cardio, ribs, and outer thighs. Lifelong wellness emphasis.

HLAC 1520 – Hiking (LW) **1 cr**

Students will learn the basic skills of hiking, including trip planning, map reading and basic first aid. Hikes include various locations along the Wasatch Front. This course is designed for fun and encourages lifelong participation.

HLAC 1527 – Rock Climbing I (LW) **1 cr**

This is a beginning climbing class focusing on indoor Top Rope belaying/climbing skills and techniques. No prior rope climbing experience required. This course is designed for fun, challenge and encourages lifelong participation.

HLAC 1528 – Rock Climbing II (LW) **1 cr**

Recommended prereq: HLAC 1527 or instructor approval. Students learn intermediate static and dynamic movement styles, including belaying, clipping and rope management techniques. Students are taught to safely lead-climb indoors. Designed for fun, challenge and lifelong participation.

HLAC 1535 – Backpacking (LW) **1 cr**

This course is for students to learn the basic skills of backpacking; trip planning, navigation, outdoor cooking, and safety and survival skills, and includes two weekend class trips. This course encourages lifelong participation.

HLAC 1540 – Related Outdoor Activity (LW) **1 cr**

Provides credit for physical activity tied to other courses offered by the college such as community services courses (building homes for the homeless) or anthropology courses involving field schools. Lifelong wellness is encouraged.

HLAC 1550 – Mountain Biking I (LW) **1 cr**

This course provides instruction in mountain biking techniques, bike maintenance, trip planning and safety. Class meets at various locations along the Wasatch Front. This course is designed for fun and encourages lifelong participation.

HLAC 1551 – Mountain Biking II (LW) **1 cr**

Recommended prereq: HLAC 1550. This course covers more advanced mountain biking skills with longer and more technical rides than Mountain Biking I. It is designed for fun and encourages lifelong participation.

HLAC 1610 – Skiing/Snowboarding (LW) **1 cr**

This is a basic skiing and/or snowboarding course, taught by professionally trained instructors and accommodates all skill levels. The course is designed for fun and encourages lifelong participation.

HLAC 1655 – Snowshoeing (LW) **1 cr**

Students are taught basic skills in snowshoeing techniques, maintenance, trip planning and safety. Class meets at various trails in the Wasatch Mountains. This course is designed for fun and encourages lifelong participation.

HLAC 1670 – Ice Skating I (LW) **1 cr**
This course will introduce the students to the fundamental skills of ice skating. This course emphasizes lifelong wellness concepts.

HLAC 1715 – Country Western Dance (LW) **1 cr**
This course teaches popular partner country western dances including Texas Two-Step, Nightclub Two-Step, East Coast Swing, West Coast Swing and Cha-cha. This course is designed for fun and encourages lifelong participation.

HLAC 1720 – Social Dance I (LW) **1 cr**
This course introduces social, ballroom and partner dancing. It includes basic steps of Merengue, Waltz, Rumba, Foxtrot, Triple Swing, Cha-cha and Tango. This course is designed for fun and encourages lifelong participation.

HLAC 1721 – Social Dance II (LW) **1 cr**
Recommended prereq: HLAC 1720. This course covers the more advanced steps of the Waltz, Cha-Cha, West Coast Swing, Two Step, Tango and Viennese Waltz. It is designed for fun and encourages lifelong participation.

HLAC 1800 – Intercollegiate Athl I (LW) **1 cr**
Prereq: Instructor approval. This is the intercollegiate athletic team class offered in the Fall Semester. The class is designed for practice, competition, and encourages lifelong wellness.

HLAC 1801 – Intercollegiate Athl II (LW) **1 cr**
Prereq: Instructor approval. This is the intercollegiate athletic team class offered during Spring Semester. The class is designed for practice, competition, and encourages lifelong fitness.

HLAC 1802 – Intercollegiate Athl III (LW) **1 cr**
Prereq: Instructor approval. This is the intercollegiate athletic team class offered during Fall Semester. Instructor approval is required. The class is designed for practice, competition, and encourages lifelong wellness.

HLAC 1803 – Intercollegiate Athl IV (LW) **1 cr**
Prereq: Instructor approval. This is the intercollegiate athletic team class offered during Spring Semester. Instructor approval is required. The class is designed for practice, competition, and encourages lifelong wellness.

HLAC 1805 – Cheer Squad I (LW) **1 cr**
Prereq: Instructor approval. This is the fall semester intercollegiate cheer squad class. Instructor approval is required. The class is designed for practice, competition, and encourages lifelong fitness.

HLAC 1806 – Cheer Squad II (LW) 1 cr
Prereq: Instructor approval. This is the spring semester intercollegiate cheer squad class. Instructor approval is required. The class is designed for practice, competition, and encourages lifelong fitness.

HLAC 2105 – Principles of Cardiorespiratory Tranining (LW) 1 cr
A more advanced course designed to provide students with the knowledge and practice of cardiorespiratory training. Emphasis is in understanding cardiorespiratory modalities, manipulation of volume and intensity, and how it affects training adaptation. This course emphasizes lifelong fitness and wellness concepts.

HLAC 2110 – Prin. of Weight Training(LW) 1 cr
Advanced course designed to provide students with the knowledge and skill in the use of free weights, weight machines and exercise apparatus, with an emphasis in designing resistant training programs to meet a wide range of goals. Course emphasizes lifelong fitness and wellness concepts.

HLTH 1020 – Foundations of Nutrition 3 cr
Introduces and applies basic nutrition concepts. Fundamentals of human nutrition and its applications to a healthier lifestyle. Evaluation and assessment of nutrition issues which includes preventing nutrition-related diseases.

HLTH 1050 – Life, Society and Drugs (ID) 3 cr
A comprehensive study of the personal, social, health, political and economic effects of substance use and abuse in this country. The impact of alcohol and other drugs on the individual, family, and society as a whole, will be covered.

HLTH 1105 – Healthy Body Image/Weight Mgmt 2 cr
Promotes positive body image and self esteem. Includes self assessment, evaluation, biological, social and spiritual strategies to assist students in accepting themselves regardless of body size or images.

HLTH 1110 – Social Health & Div. (ID,DV) 3 cr
This course offers an analysis and evaluation of social health issues facing the United States today. Disparity in health care caused by social problems such as bias, privilege, discrimination and prejudice will be discussed.

HLTH 1150 – Know Greater Heroes I 3 cr
Students will be coached to master key communication skills, beliefs and physiology of truly successful people and outstanding leaders.

HLTH 1200 – First Aid and Safety 3 cr
Course follows American Red Cross Responding to Emergency guidelines and leads to first aid and CPR certification.

HLTH 1240 – Theory/Pract of Meditation(LW) 2 cr
This course is an overview of the use and practice of meditation to reduce stress and increase health and wellness. Different forms and purposes of meditation will be explored and daily meditation practice encouraged.

HLTH 1242 – Laughter Yoga (LW) 2 cr
A mind/body class combining lecture, practice and laughter to lower stress hormones, foster a positive and hopeful attitude and to help people increase health and vitality through unconditional laughter and yogic breathing.

HLTH 1243 – Introduction To Laughter Yoga Instructor Training 3 cr
Recommended prereq: HLTH 1242. Train to become a certified Laughter Yoga Instructor. Learn how to lead Laughter Yoga and Meditations sessions for social clubs, corporate clients, senior citizen groups and school children. After successful completion of this course you will be qualified as a Certified Laughter Yoga Leader (CLYL).

HLTH 1245 – Environmental Yoga (LW) 2 cr
Yoga philosophy and principles are used to explore ways to be more environmentally conscious, to appreciate human interconnectedness with the environment and how to live a sustainable, ethical life.

HLTH 1250 – Stress Management 2 cr
Covers ways to help minimize effects of stress. Includes techniques of prevention, perception and intervention. Also provides relaxation techniques, personality profiles, goal setting, communication, time management and imagery skills.

HLTH 1255 – Mind/Body Connection 3 cr
Intro to mind/body potential for alleviating illness and improving health. Covers relaxation tech, guided imagery, and other alternative methods. Includes psychoneuroimmunology and support systems with practical application.

HLTH 1260 – 21st Century Medicine 3 cr
Explores trends in medical treatment. Learn about nutrition therapies, environmental detoxification, pharmaceutical treatment, herbology, homeopathy, energy medicine, physical therapy and other practical preventative measures.

HLTH 1300 – Doula & Childbirth Preparation 3 cr
This course covers the pre and post partum period of pregnancy as well as labor and delivery. Students will learn what to expect in pregnancy, childbirth and the postpartum period.

HLTH 1325 – Intro Group Fitness Instructor **3 cr**

This course assists successful students to prepare for certification as fitness professional by covering the educational components of teaching a safe and effective group fitness class.

HLTH 1350 – Intro to Yoga Teacher Training **3 cr**

Recommended prereq: HLAC 1057 or HLAC 1058 or personal practice. Class will cover the following principles of yoga: asanas, pranayamas, kriyas, chanting, mantra, meditation and other traditional yoga practices with equal time given to analytical training and teaching and practice techniques.

HLTH 1355 – Yoga Teacher Training II **2 cr**

Class will cover human physical anatomy, physiology, and energy anatomy and physiology (chakras, nadis, etc.) as applied to the subject and application to yoga practice.

HLTH 1360 – Yoga Teacher Training III **3 cr**

Recommended prereq: HLTH 1350. Class covers the following principles of yoga: asanas, pranayamas, kriyas, chanting, mantra, meditation and other traditional yoga practices with equal time given to analytical training and teaching, and practice techniques.

HLTH 1365 – Yoga Teacher Training IV **3 cr**

Recommended prereq: HLTH 1350. Class studies advanced asanas, pranayamas, kriyas chanting, mantra, meditation and other traditional yoga techniques. Teaching methodology and ethics will be covered.

HLTH 1370 – Yoga Teacher Practicum **2 cr**

Prereq: Instructor approval. This class allows students to complete the required practical teaching requirements for the Yoga Alliance. Practicum teaching will be done with fellow students during class and in the community as a volunteer.

HLTH 1375 – Yoga Sutras **5 cr**

Prereq: must have successfully completed a 200 hour Yoga Alliance Program. This course offers an in-depth study of ancient and modern texts like Patanjali's Yoga Sutra or Hatha Yoga Pradipika. Students will explore various interpretations along with ways to apply the Sutras into everyday living & Yoga Practice.

HLTH 1380 – Yoga for Pathology **5 cr**

Prereq: Must have successfully completed a 200 hour Yoga Alliance Program. Course covers the use of asana, pranayama, shatkarma, & meditation that are traditionally used to help when teaching a yoga class or working one on one with yoga students, to help design practices that serve each individual specifically.

HLTH 1385 – Yoga for the Life Cycle **3 cr**

Prereq: successful completion of a Yoga Allicance approved 200 hr program. This course offers an in-depth study of the application of Yoga and Yoga Principles through the life cycle beginning with pregnancy, childhood, adolescence, adulthood and older adults.

HLTH 1390 – Yoga Lab and Practicum **3 cr**

Prereq: successful completion of a Yoga Alliance approved 200 hr program. This course offers students opportunities to work on their own personal practice, to teach general populations and to work one on one with yoga clients to help them find a practice suited to their own needs and goals.

HLTH 1500 – Lifetime Wellness/Fitness (ID) **3 cr**

This interdisciplinary course teaches students to become active participants in achieving wellness in the physical, intellectual, emotional, social, spiritual and environmental areas of health in their lives.

HLTH 2020 – Nutrition for the Life Cycle **3 cr**

Covers nutrition function needs, sources and alterations during pregnancy, lactation, growth, development, maturation and aging. Includes disease prevention, essential nutrients, metabolism, wt. management and specific problems.

HLTH 2021 – Nutrition for Fitness & Sports **3 cr**

Prereq: HLTH 1020 or HLTH 2020. Examines advanced fitness/sport nutrition issues, including ergogenic aids and nutrient metabolism for optimal athletic performance.

HLTH 2100 – Fitness Motiv./Behav Response **3 cr**

Covers behavior management techniques that will assist fitness trainers in providing programs for people of all ages. Provides students with an understanding of a variety of teaching, learning and communication strategies.

HLTH 2150 – Know Greater Heroes II **3 cr**

Prereq: HLTH 1150. A continuation of HLTH 1150. Students will continue their mastery of communication skills, mentoring and teaching leaders to train others to be outstanding leaders.

HLTH 2200 – Kinesiology **3 cr**

Required prereq: BIOL 1090. This course will focus on the anatomical, physiological and mechanical principles as they are applied to human movement.

HLTH 2250 – Exercise Physiology **3 cr**

Required prereq: BIOL 1090. Covers the function and adaptation of the human body to the stress of physical activity. This course will study these adaptations and the metabolic process of energy yielding pathways.

HLTH 2300 – Emergency Medical Technician **10 cr**

14-week course. Must be 18 years old. BLS CPR certification available. Treatment of medical emergencies, trauma injuries, patient assessment, shock treatment, bleeding control, illness, bandaging, splinting, taking vital signs. Upon successful course completion, students will be recommended to take the Utah Department of Health EMT Certification test.

HLTH 2400 – Exercise & Special Populations **3 cr**

Prereq: HLTH 2250. This course is designed to give students an understanding of the correct application of exercise principles for special population clients. Students will learn theory and application of cardiovascular, muscular, and neuromuscular criteria for exercise prescription, with focus on; scope of practice, training design, and its application to special populations.

HLTH 2415 – Functional Performance **2 cr**

Prereq: HLTH 2200. The purpose of this course is to provide students with the tools necessary in assessing and implementing corrective movements for participants showing relative risk to decrease neuromuscular coordination, improper motor unit recruitment, and the risk of musculoskeletal injury to optimize performance and decrease injury rate patterns.

HLTH 2425 – Evaluation and Assessment of Fitness **3 cr**

Prereq: HLTH 2200. The purpose of this course is to provide students with the tools necessary to evaluate and assess participants relative to risk factors and/or symptoms for various chronic cardiovascular, pulmonary, muscular, and metabolic diseases/disorders, to optimize safety during exercise testing and participation.

HLTH 2430 – Designing Training Programs **3 cr**

Prereq: HLTH 2425. Students will learn to design and implement comprehensive fitness programs, preparing them for a career in the fitness industry.

HLTH 2435 – Personal Fit Trainer Industry **3 cr**

This course introduces students to the business aspect of the fitness training industry. Students will have the opportunity to create their own business plan as a fitness entrepreneur.

HLTH 2450 – Personal Trainer Internship **3 cr**

Prereq: Instructor approval. Should be taken in final semester of Fit Tech Program. Students will observe and assist in the fitness training of individuals. 120 hours must be completed. Possible intern sites include SLCC fitness center, fitness clubs, county recreation and corporate fitness centers.

HS 2050 – Cultural, Legal, And Ethical Issues For The Health Sciences(ID, DV) 3 cr
The course explores Western medical ethics as articulated by clinicians, health care professionals within the framework of a wide range of secular, cultural, and socioeconomic groups and religious traditions and how these various factors lead to tension and compromise effective, humane health care. The course will promote awareness of health care outcomes and medical care for diverse populations.

HSEM 1360 – Intro to Homeland Security 3 cr
Prereq: CJ 1010 & HSEM 1450. Overview of national strategy for homeland security in the various agencies and bureaucracies that make up the infrastructure of homeland security and the role of local law enforcement and first-responders in homeland security.

HSEM 1370 – Law, Policy & Privacy in Homeland Security Emergency Management 3 cr
Prereq: CJ 1010 & HSEM 1450. A study of the legal aspects of Homeland Security. How the U.S. Constitution applies to critical homeland security issues and a review of laws and regulations that impact homeland security and emergency management programs and policies.

HSEM 1380 – Intro to Intelligence Analysis 3 cr
Prereq: CJ 1010 & HSEM 1450. Study of the history of intelligence gathering and analysis; relationships between intelligence officers and policy makers; dangers of intelligence politicization; and, successes and failures of intelligence activities.

HSEM 1390 – Transportation & Border Security 3 cr
Prereq: CJ 1010 & HSEM 1450. Dangers from domestic and international terrorism to air, rail, maritime and ground transportation in the United States. Border security of the United States from international drug trafficking and terrorist operations.

HSEM 1400 – First Responder in Homeland Security Emergency Management 3 cr
Prereq: CJ 1010 & HSEM 1450. Course examines the roles and responsibilities of first responders during crisis events and how policies and procedures impact the on-scene decision-making process. Students will learn the actions each type of responder (fire, law enforcement and medical) will take in an emergency situation to secure scenes, reduce loss of property and save lives.

HSEM 1450 – Critical Thinking in Homeland Security & Emergency Management 3 cr
Introduces students to critical thinking and logic skills through analyzing and evaluating arguments and basic logical framework. Students develop judgment about the application of critical thinking and logic skills as applied to issues arising in the context of terrorist attacks or natural disasters through critical reading, thinking, writing, research and analysis.

HSEM 1900 – Special Studies in Homeland Security Emergency Management 1-24 cr
Prereq: CJ 1010, CJ 2450, HSEM 1360 & HSEM 1450. This course covers independent study in homeland secuirty emergency management. Students can earn 1-24 elective credit hours for this class. HSEM elective credit may also be awarded for POST, EMT, and other related courses offered at the SLCC Institute of Public Safety.

HSEM 2000 – Homeland Security Emergency Management CO-OP 2-4 cr
Prereq: CJ 1010, CJ 2450, HSEM 1360 & HSEM 1450. This course provides supervised work experience in a business, industrial, or government environment related to the program major. Credit is awarded for successful completion. Prior approval required for participation in this program.

HSS 1500 – Therapeutic Recreation Tech 6 cr
Course introduces students to basic principles of recreation therapy and gives a general overview of the field. Areas related to rules and regulations, assessment, documentation, planning and program implementation will be covered.

HUMA 1010 – Essentials of Humanities (HU) 3 cr
Introduces the elements of the Humanities through a one-semester thematic survey of the major ideas, art forms, literature, social structures, and events of history that have shaped global human cultures form the prehistoric to the present. Activities and discussions encourage students to make cultural connections, see world events in historical context, and to think critically.

HUMA 1100 – Intro to Humanities (HU) 3 cr
Course thematically investigates the fundamental and perennial questions of humankind and how human beings relate through culture to their political, religious, social, intellectual, economic, and geographic environments.

HUMA 1900 – Special Studies in Humanities 1-3 cr
This is an individualized studies course in the humanities. Students plan their areas of study and work with the instructor on individual basis. Some work may be done in groups. May be repeated for credit.

HUMA 2000 – Humanities CO-OP Education 2-4 cr
Prereq: Sophomore standing, minimum GPA of 2.0. Supervised work experience in a business, industrial, nonprofit corp. or gov. environment related to the program major. Credit awarded for completion of specific objectives that provide new learning related to the program major.

HUMA 2120 – Sacred Traditions (HU) 3 cr
Recommended prereq: HUMA 1100 or HUMA 2300. Using interdisciplinary theories of the origin of Religion, students learn to describe, interpret, explain & evaluate human experiences of the sacred through material culture & sacred traditions especially as it pertains to the roles of space, ritual, sacred time, & language in the construction of others' & one's own conceptions of sacredness.

HUMA 2220 – Pacific Amer. Studies (HU,DV) 3 cr
This course explores Pacific Islander American Experience including their histories, literature, cultural patterns and contemporary experiences within the context of a theoretical framework of race and ethnic studies.

HUMA 2300 – World Religions (HU) 3 cr
A survey of the world's religions, their cosmologies and methods for living. Takes a historical perspective including mythology, philosophy, rituals, and doctrines of the belief systems; emphasizes the relationship religion has with culture.

HUMA 2310 – Great Books I 3 cr
Examines the unique legacy left to us by ancient and medieval cultures from around the world through intensive reading and discussion of primary sources in literature, philosophy, political theory, religion, and history.

HUMA 2320 – Great Books II 3 cr
Examines the unique legacy left to us by early-modern and modern cultures through intensive reading and discussion of primary sources in literature, philosophy, political theory, religion, and history.

HUMA 2400 – Religious Diversity-US (HU,DV) 3 cr
Examines what it means to be religious in America: the conflict, interaction and influence of US culture and diverse religious minorities. Explores ideas of privilege, stereotypes, discrimination and the challenge of integration and accommodation.

HVAC 1100 – Refrigeration Basic Electrical 10 cr
Coreq: HVAC 1120. Provides an understanding of HVACR electrical controlled circuits. Reading ladder and schematic diagrams, computerized training, troubleshooting circuits, electric single-phase motors and starting devices are emphasized in both theory and lab.

HVAC 1110 – HVAC I A 5 cr
Prereq: HVAC 1470 or equivalent. Materials and devices with focus on CPR/First Aid, Safety, Hand Tools, Accessories, Basic Electricity, Character Education/Customer Service, and Basic Gas Properties/ Gas Appliance Installation.

HVAC 1120 – HVAC IB 5 cr
Prereq: HVAC 1110. Basic refrigeration cycle and physic principles. Cut, solder, and braze copper tubing, demonstrate safe use of manifold gauges, vacuum pumps, recovery machines. EPA/CFC certificate preparation.

HVAC 1210 – HVAC IIA **5 cr**

Installation principles, determine heat and cooling loads, calculate and design ducts, identify filtration methods, and install residential systems. Rocky Mountain Gas Association (RMGA) installation test.

HVAC 1220 – HVAC IIB **5 cr**

Prereq: HVAC 1210. Reading and interpreting of HVAC system blueprints to design and install HVAC layout, fabricate and install common sheet metal duct fittings.

HVAC 1400 – Air Conditioning **10 cr**

Prereq: HVAC 1300. Provides an understanding of commercial and residential air conditioning installation, service on refrigerant control devices and compressors, super-heat and sub-cooling adjustments, and heat pump operations. adjustments, and heat pump operations.

HVAC 1470 – Math Basics for HVAC (QS) **5 cr**

This is a customized course in applied mathematics for the trades including algebraic and trigonometric functions.

HVAC 2000 – Heat, Vent, Air Specialties **5 cr**

This course is designed to meet the needs of a student requesting co-op credit for on-the-job training hours. Credit hours may vary for this course.

HVAC 2310 – HVAC IIIA **5 cr**

Prereq: HVAC 1120. Electron theory, AC and DC current, Ohm's law, series and parallel circuits, operation of gas furnaces, basic heat and cool controls and balance equipment. ICE Residential and Light Commercial Air-Conditioning and Heating Certification tests.

HVAC 2320 – HVAC IIIB **5 cr**

Prereq: HVAC 2310. Operation of the compression refrigeration and heat pump cycles, and troubleshoot systems. RMGA Service Certification test, the NATE Core Service and one Specialty test.

HVAC 2410 – HVAC IVA **5 cr**

Prereq: HVAC 2320. Fan types, measure air flow, volume and velocity using various instruments. Principles of hydronics, steam heat and heat distribution units as well as basic principles of oil furnace heat systems.

HVAC 2420 – HVAC IVB **5 cr**

Prereq: HVAC 2410. Electronic components and control systems in electromechanical, pneumatic, electronic and DDC. Principles of psychometrics, humidification, desiccant cooling and dehumidification.

IND 1120 – Math for Industry (QS) **3 cr**
Prereq: MATH 0900 w/C grade or better, or appropriate Accuplacer score. Designed to provide students with training in elementary math skills and work place applications of various vocational areas. Intent is to increase and enhance the math skills that are necessary.

IND 1130 – Math for Welders **3 cr**
Prereq: IND 1120. Math for Welders is designed to help students apply fundamental math skills to practical workplace problems.

INTD 1010 – Intro. to Interior Design **3 cr**
A broad overview of the principles of interior design, furniture selection, accessories, lighting, fabrics and architectural finishes.

INTD 1100 – Drafting for Interior Design **3 cr**
An introduction to the basic principles and techniques of Hand drafting and rendering for planning interior environments in residential and commercial design.

INTD 1200 – Color for Interiors **3 cr**
A review of the theories of color and applications as they relate to the psychological impact of color in residential and commercial settings.

INTD 1300 – Perspective Drawing **3 cr**
Prereq: INTD 1100. Overview of techniques and media used by Interior Designers for perspective drawings and renderings.

INTD 1350 – Rendering Techniques **1 cr**
Coreq: INTD 1300. Highlighting the use of markers in combination with other mediums, this class focuses on hard-to-draw subjects such as wood, stone, glass, foliage, skies, carpet, and fabrics.

INTD 1370 – Commercial Space Planning **3 cr**
Prereq: INTD 1010. Overview of the principles of commercial interior design. This course will require students to focus on individual projects and field work.

INTD 1400 – Copyrights for Creative Professionals **1 cr**
This introductory short course focuses on U.S. copyrights given to creative individuals who produce visual, musical, literary works of art or performing arts. The course also covers licensing and trademarking.

INTD 1420 – Salesmanship And Promotion For Creative Professionals **2 cr**
This introductory short course will introduce basic sales and self-promotional principles and techniques specifically tailored for creative artists.

INTD 1440 – Building A Creative Business **2 cr**

This introductory short course will introduce basic business structures and examine the process of setting up a business for creative professionals working in the areas of music, the many forms of visual design, fine art, animation, film and video, and the literary arts.

INTD 1450 – Interior Design AutoCAD I **4 cr**

Prereq: INTD 1100. Survey of basic AutoCAD applications for Interior Design. Students will learn how to create floor plans using AutoCAD.

INTD 1460 – Interior Designers AutoCAD II **4 cr**

Prereq: INTD 1450 . Students will learn to use advanced computer-aided design tools and drafting techniques.

INTD 1550 – Presentation Technique I **3 cr**

Prereq: INTD 1010. Capstone course to develop a presentation portfolio utilizing printed and multimedia applications.

INTD 1600 – History/Int. Des. & Furniture **3 cr**

This course is a survey of historical furnishings, architecture design motifs from ancient civilization through the Victorian era, with emphasis on French, English and American periods.

INTD 1700 – Contemporary Furnishings **3 cr**

This course is a survey of contemporary furnishings from the end of the Victorian period to present day, emphasizing the masters of contemporary furniture design and current trends.

INTD 1750 – Design Psychology **3 cr**

Prereq: INTD 1010. An introduction into the field of Design Psychology. Students will explore basic Psychology principals that explore the relationship between people and place, and examine how individuals unconsciously connect with their environments.

INTD 1950 – Materials/Components of Design **3 cr**

Prereq: INTD 1010. A survey of the properties and production of materials employed in interiors, such as textiles, wood, metals, masonry, and other elements.

INTD 2000 – Internship **3 cr**

Prereq: INTD 1950 and instructor approval. To experience and gain a first-hand working knowledge of various aspects of the interior design field.

INTD 2150 – Green/Sustainable Interiors **3 cr**
Prereq: INTD 1950, INTD 2200 and INTD 2500. An overview of the environmentally responsible design, building practices, systems, materials, current codes, and current applicable certifications. Emphasis is on residential construction and interiors.

INTD 2200 – Building Const. and Codes I **3 cr**
Prereq: INTD 1450 and INTD 1950. Students will be introduced to the basics of construction management and the common practices of residential and commercial construction. The role of interior designers in the construction process will also be taught.

INTD 2300 – Lighting Design & Application **3 cr**
Prereq: INTD 1450. Overview of light fundamentals and lighting systems. Students will learn to calculate lighting levels, solve interior design lighting problems and communicate specification to clients and other professionals.

INTD 2400 – Kitchen & Bath Design **3 cr**
Prereq: INTD 1450. An overview of the basic principles of kitchen design and space layout, including drawing floor plans and elevations to scale. Cabinetry, appliances, finish materials, barrier free design are covered.

INTD 2450 – Advanced Kitchen & Bath Design **3 cr**
Prereq: INTD 2400. Course covers kitchen and bath design in greater depth, including theme, universal design, and auxiliary spaces.

INTD 2500 – Building Const. & Codes II **3 cr**
Prereq: INTD 1460. Overview of the principles of commercial interior design. This course will require students to focus on individual projects and field work.

INTD 2600 – Professional Practice **4 cr**
Prereq: INTD 2500. Overview of basic business principles related to interior design. Topics include: ethics, fees, documentation, terminology and job coaching.

INTD 2700 – Presentation Techniques II **3 cr**
Prereq: INTD 2600. Gain the skills needed to produce presentation quality drawings by using Photoshop, Illustration, InDesign and Google SketchUp to augment artistic skills.

INTD 2800 – Historic Preservation **3 cr**
Prereq: Instructor approval. This is an introduction course to historic preservation from a national and international perspective including the evolution of theory and practice and its application.

INTD 2900 – Independent Study **1-3 cr**
Prereq: INTD 2600 or instructor approval. For Interior Design majors ONLY. This Independent Study is based on a student-selected design topic.

INTL 2040 – The Immigrant Experience through Literature and Film (HU,DV) **3 cr**
A study of human issues linked to immigration through literature and film: cultural identity, prejudice, racism, multiculturalism. The US experience will be framed in the perspective of human migration and globalization.

INTL 2060 – Intl Lit and Culture (HU,DV) **3 cr**
Comparison of literature of ethnic groups of the U.S. with that of the native country in order to explore issues of U.S. discrimination, acculturation, identity, and bigotry as well as appreciating the benefits brought by that provenance.

INTL 2230 – Global French Cultures (HU) **3 cr**
Focuses on non-European French-speaking areas, such as Africa, the Caribbean, the Pacific Islands, Southeast Asia and Quebec. Students study literature, films, etc., and through them, the history of French colonialism, the areas' geography, and current economic and political status.

INTL 2240 – Latin American Studies (HU) **3 cr**
Explores the Latin American Experience based on literature, film, geography, histories, politics, religion, cultural patterns and contemporary experiences to increase intercultural competence and understanding modern Latin culture.

INTL 2980 – Travel Study (ID) **3 cr**
Prereq: Varies by semester and trip taken. This course includes travel experience with faculty of SLCC as well as pre- and post-trip activities and assignments. Credit awarded for successful completion of specified learning objectives.

INTL 2990 – Study Abroad (ID) **3 cr**
Prereq: Varies by semester and trip taken. The student attends lectures/workshops at an institution in a different country and studies in conjunction with faculty of SLCC in residence. Credit awarded for successful completion of specified learning objectives.

INTR 1000 – Introduction to Interpreting **1 cr**
This course provides an intro to the profession of interpreting with lecture, interviews, readings, and projects. Topics include history, terminology, responsibilities, skills/aptitudes, and employment options for interpreters.

INTR 1100 – Connections to Community I **1 cr**

Prereq: Acceptance into the INTR program. CoReq: INTR 1200 & 1300. This course is designed to immerse students in the Deaf community and interpreting profession through Service Learning and mentoring opportunities to improving ASL skills and broaden their understanding of the community and profession.

INTR 1110 – Connections to Community II **1 cr**

Prereq: INTR 1100. CoReq: INTR 1400 & 1500. This course is designed to immerse students in the Deaf community and interpreting profession through Service Learning and mentoring opportunities to improving ASL skills and broaden their understanding of the community and profession.

INTR 1200 – Interpreting I **5 cr**

Prereq: Acceptance to the INTR program. CoReq: INTR 1100 & 1300. This course provides an intro to, and enhancement activities for, cognitive processing skills associated with interpretation. Discourse styles of ENG and ASL are analyzed and consecutive interpreting is introduced.

INTR 1300 – Ethics/Professional Standards **3 cr**

Prereq: Acceptance to the INTR program. CoReq: INTR 1100 & 1200. This course provides an overview of ethical decision-making and prepares students to apply strategies professionally. Interpreting ethics are explored and readings, discussions, and case studies are used to apply knowledge used in course.

INTR 1400 – Interpreting II **5 cr**

Prereq: INTR 1200. CoReq: INTR 1110 & 1500. This course provides students with the opportunity to practice interpretation skills in consecutive formats while further enhancing cognitive and linguistic skills as well as cultural awareness and knowledge.

INTR 1500 – Comparative Linguistics **3 cr**

Prereq: Acceptance to the INTR program and INTR 1200. Coreq: INTR 1110 & 1400. This course examines basic similarities and differences between the linguistic structure of ASL and ENG, focusing on the way each conveys primary and secondary information. Students engage in a research project related to course content.

INTR 1600 – Internship I **2 cr**

Prereq: INTR 1400. CoReq: INTR 2100 & 2200. This course provides students opportunities to make connections with professionals in the field, learn about different tasks, populations and settings of interpreting as well as explore later internship options.

INTR 1900 – Individual Studies **1-2 cr**

Prereq: INTR 1400. In this special studies course, students plan areas of study Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups.

INTR 2000 – Individual Research Project **1-2 cr**
Prereq: INTR 1400. In this special studies course, students plan areas of study Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups.

INTR 2100 – Connections to Community III **1 cr**
Prereq: INTR 1110. CoReq: INTR 1600 & 2200. This course is designed to immerse students in the Deaf community and interpreting profession through Service Learning and mentoring opportunities to improving ASL skills and broaden their understanding of the community and profession.

INTR 2200 – Interpreting III **5 cr**
Prereq: INTR 1400. CoReq: INTR 1600 & 2100. This course provides the opportunity to continue practicing ASL/ENG interpretation skills using a simultaneous format. Linguistic and cultural considerations are emphasized for accurate interpretations and to preserve meaning.

INTR 2400 – Interpreting IV **2 cr**
Prereq: INTR 2200. CoReq: INTR 2600. This course focuses on ASL/ENG interactive interpreting skills. Transliteration skills are also introduced as a means for matching consumer language use.

INTR 2600 – Internship II **2 cr**
Prereq: INTR 2200. Coreq: INTR 2400. This course is the internship component that complements your academic work through practical experiences in a community setting. Students will observe interpreters and interpret with direct supervision.

INTR 2900 – Special Topics **1-2 cr**
Prereq: INTR 2200. This course provides various topics in interpreting including community, video relay service, and theatrical interpreting, working with specific populations, and other topics of importance to interpreters.

INTR 2910 – Educational Interpreting **2 cr**
Prereq: INTR 1400. This course is an introduction to interpreting in K-12 settings. Topics include an overview of public/deaf education in the US, classroom learning activities, language skills/communication modes, learning styles, and accessibility.

INTR 2920 – VRS Interpreting **2 cr**
Prereq: INTR 2200. This course is an introduction to interpreting in Video Relay settings. Topics include an overview of legislation and federal administration, corporate environments, and the use and challenges of technology used to interpret in this setting.

INTR 2930 – Community Interpreting **2 cr**
Prereq: INTR 1400. This course is an introduction to interpreting in community settings. Topics business practices, billing, insurance, and taxes. Students will also be introduced to types of employment expected in community settings.

ISA 1110 – Ironworkers 1A **5 cr**
This course includes OSHA Outreach Training, MSILA New Miner Training, and specialized training for Steel Erection.

ISA 1120 – Ironworkers 1B **5 cr**
Prereq: ISA 1110. This course covers the fundamentals of placing reinforcing steel and Post Tensioning cables in concrete. Upon completion, students will be able to take PTI certification exam.

ISA 1210 – Ironworkers IIA **5 cr**
Prereq: ISA 1120. This course covers blueprint reading and the fundaments of construction and steel erection drawings.

ISA 1220 – Ironworkers IIB **5 cr**
Prereq: ISA 1210. This course covers the fundamentals of planning, job layout, and steel erection.

ISA 2310 – Ironworkers IIIA **5 cr**
Prereq: ISA 1220. This course examines the basic fundamentals of welding.

ISA 2320 – Ironworkers IIIB **5 cr**
Prereq: ISA 2310. This course is a continuation of the basic fundamentals of welding.

ISCI 1000 – Intro Competitive Intelligence **3 cr**
The introductory course examines the principles, roles, responsibilities, and activities associated with CI-BI work, as well as the history of CI-BI. The learner will survey a range of functions, models, practices, processes, techniques, technologies, and tools that will be applied to basic, experiential projects.

ISCI 1010 – Intermediate Competitive Intelligence **3 cr**
Prereq: ISCI 1000 w/C grade or better. Must have access to a camcorder. Strategic Competitive Intelligence capitalizes on the intelligence life-cycle continuum learned in ISCI 1000. Companies must compete in order to increase customers, market share, revenue, and profit. The intermediate course examines competition and intelligence, and how they became intertwined. Learners construct frameworks for viewing the competitive environment.

ISIS 1010 – Intro to Library Services **3 cr**
Course provides an overview of types of libraries, media and information centers, tools and terminology used in libraries, the role of library assistants, library Bill of Rights, privacy issues and library associations.

ISIS 1200 – Public Information Services **3 cr**

Course includes information about library circulation, covers policies, procedures, reserve collections, patron holds/requests, reference and information services, search strategies, information sources, customer communication and search techniques.

ISIS 1500 – Library Technical Services **3 cr**

Review processes by which materials are acquired for collections and prepared for public access. Biblographic search tools, acquisition terminology, serials ordering, cataloging reference tools and resources covered.

ISKM 1000 – Intro Knowledge Management **3 cr**

This introductory course provides students with an introduction to a range of cases, concepts, models, practices, theories, and technologies related to the emerging field of Knowledge Management (KM).The course will survey business value of KM; careers in KM; intellectual capital; perspectives of knowledge creation, knowledge transfer, knowledge sharing, and knowledge leadership roles and skills.

ISKM 1010 – Intermediate Knowledge Management **3 cr**

Prereq: ISKM 1000 w/C grade or better. Must have access to camcorder. Strategic Knowledge Management capitalizes on the knowledge management (KM) life-cycle continuum learned in KM 1000. More in depth concepts, terms, techniques, tools, processes, and systems are introduced to the learner. The intermediate course examines the principles of KM, technologies and systems, and the management of KM in an enterprise.

ITL 1010 – Beginning Italian I **5 cr**

First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Italian culture. Lab attendance is required.

ITL 1020 – Beginning Italian II (LN) **5 cr**

Prereq: ITL 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Italian culture. Lab attendance is required.

ITL 1300 – Beginning Conversation **1 cr**

Prereq: ITL 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

ITL 1900 – Special Studies in Italian **1-2 cr**

Prereq: Instructor approval. In this course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

ITL 2010 – Intermediate Italian I **4 cr**

Prereq: ITL 1020 or instructor approval. Second-year Italian courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

ITL 2020 – Intermediate Italian II **4 cr**

Prereq: ITL 1020 or instructor approval. Second-year Italian courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

ITL 2300 – Conversation **1 cr**

Prereq: ITL 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

ITL 2700 – Introduction to Literature **3 cr**

Prereq: ITL 2010 or ITL 2020. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

ITL 2710 – Introduction to Italian Film **3 cr**

Prereq: ITL 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in Italian. Lab attendance required.

ITL 2900 – Special Topics in Italian **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in Italian language and culture. Lab attendance required. May be repeated for credit.

JPN 1010 – Beginning Japanese I **5 cr**

First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Japanese culture. Lab attendance is required.

JPN 1020 – Beginning Japanese II (LN) **5 cr**
Prereq: JPN 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Japanese culture. Lab attendance is required.

JPN 1300 – Beginning Conversation **1 cr**
Prereq: JPN 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

JPN 1900 – Special Studies in Japanese **1-2 cr**
Prereq: Instructor approval. In this course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

JPN 2010 – Intermediate Japanese I **4 cr**
Prereq: JPN 1020 or instructor approval. Second-year Japanese courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

JPN 2020 – Intermediate Japanese II **4 cr**
Prereq: JPN 1020 or instructor approval. Second-year Japanese courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

JPN 2300 – Conversation **1 cr**
Prereq: JPN 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

JPN 2700 – Introduction to Literature **3 cr**
Prereq: JPN 1020 or instructor approval. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

JPN 2710 – Introduction to Japanese Film **3 cr**
Prereq: JPN 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in Japanese. Lab attendance required.

JPN 2900 – Special Topics in Japanese **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in Japanese language and culture. Lab attendance is required. May be repeated for credit.

KABM 0115 – Basic Math Skills **64 hrs**

Prereq: TABE test, placement test in class. Recommended Coreq: KALL 0110. Student improves skills in basic operations, problem solving, analysis and computations using whole numbers, fractions, decimals, percents, measurement and formulas, equations, ratio and proportion, and GED prep.

KABR 0115 – Basic Reading Skills **64 hrs**

Prereq: TABE test Recommended Coreq: KALL 0110. Student tests in classroom for proper placement in curriculum; gains comprehension and vocabulary skills; uses computer aids; studies grammar, spelling, and writing as it relates to nine levels of reading.

KACC 0100 – Safety Fundamentals **20 hrs**

Prereq: School of App Tech assessment. Students prepare for the OSHA 10 hr. safety certificate and practice safety rules that apply to HVAC Industry.

KACC 0105 – Green Energy Systems **40 hrs**

Prereq: School of App Tech assessment. Also requires completion of the following previous courses from this HVAC program: KACC 0100 Safety Fundamentals. Provides an awareness of the need for conservation and energy management and self-sufficiency in energy needs related to HVAC service. Students learn principles of solar, wind, and alternative energy resources.

KACC 0200 – Fundamentals of Electricity **180 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100 and KACC 0105. Electrical theory and applications in HVAC service. Students learn principles of electricity as applied to HVAC. Students may earn related Employment Ready certificates.

KACC 0220 – Electrical Applications **140 hrs**

Prereq: School of App Tech assessment, KACC 0100, KACC 0105 and KACC 0200. Students apply the fundamentals of electricity in specific HVAC applications. Heat pumps, electrical heating equip, variable frequency drives, electrical and DDC controls are emphasized. Students may earn Employment Ready certificates.

KACC 0230 – HVAC Fundamentals **20 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200 and KACC 0220. HVAC theory and applications are introduced. Students learn fundamentals of heat transfer and the basic principles of refrigeration.

KACC 0240 – Applied Combustion Heating **80 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200, KACC 0220, KACC 0230. Theory and applications of combustion heating systems are introduced. Students learn principles of natural gas and oil heating systems and associated mechanical codes and safety; includes COSA carbon monoxide protection and RMGA exams.

KACC 0250 – Applied Refrigeration Theory **70 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0115, KACC 0220 and KACC 0230. Application of refrigeration theory and basic refrigeration systems are introduced. Students learn properties of refrigerants, and characteristics of different types of refrigeration systems; includes preparation for certifications.

KACC 0260 – Automotive A/C Service **10 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200, KACC 0220, KACC 0230 and KACC 0250. Application of refrigeration practices particular to the service of automotive air conditioners. Students can qualify for the Federal Clean Air Act automotive CFC (EPA 609) certification exam.

KACC 0290 – Employment Workshop **10 hrs**

Students learn job-seeking skills, resume writing, and interviewing skills necessary for job placement.

KACC 0300 – Residential HVAC Systems **160 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200, KACC 0220, KACC 0230, KACC 0240 and KACC 0250. Application of heating and refrigeration practices as they apply to residential heating and air conditioning systems. Emphasis is on energy efficiency in home HVAC systems. Students prepare for all applicable certifications.

KACC 0400 – Light Commercial HVAC Systems **80 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200, KACC 0220, KACC 0230, KACC 0240, KACC 0250 and KACC 0300. Application of heating and refrigeration practices for light commercial heating and air conditioning systems. Emphasis is on energy efficiency in the installation, operation, and service of basic commercial systems.

KACC 0420 – Commercial HVAC Systems **80 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200, KACC 0220, KACC 0230, KACC 0240, KACC 0250 and KACC 0300. Introduction to the basic heating and refrigeration fundamentals of larger commercial HVAC systems. Emphasis is on compliance to federal Indoor Air Quality(IAQ) requirements and IEEE energy efficiency standards for commercial facilities.

KACC 0440 – Commercial Heat/Refrigeration **80 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200, KACC 0220, KACC 0230, KACC 0240, KACC 0250 and KACC 0300. Introduction to commercial heating and refrigeration applications other than commercial HVAC systems. Focus is on safe and efficient commercial food handling and storage and other miscellaneous applications.

KACC 0500 – Capstone Project **80 hrs**

Prereq: School of App Tech assessment. Recommended Prereq: KACC 0100, KACC 0105, KACC 0200, KACC 0220, KACC 0230, KACC 0240, KACC 0250 and KACC 0300 and completion of two of the following courses: KACC 0400, KACC 0420, KACC 0440. The student develops a personal choice project that applies the skills learned throughout the program. Students design the project focusing on energy efficiency with instructor input.

KACC 0990 – HVAC Externship **80 hrs**

Prereq: Completed full HVAC program or completed all courses in the program with the exception of KACC 0500. This course allows HVAC students a supervised paid work experience with Questar Gas assisting to perform semi-skilled and skilled routine HVAC job tasks.

KACT 0115 – Basic Spreadsheets **40 hrs**

Students learn basic spreadsheet skills including creating, editing, saving and printing worksheets and workbooks; manipulating and formatting worksheets; creating and using formulas and functions; creating, editing, and formatting charts; creating and manipulating tables and using What-If analysis tools.

KACT 0125 – Comprehensive Spreadsheets **80 hrs**

Students learn basic to advanced spreadsheet skills including creating and using worksheets and workbooks; formatting; formulas and functions; charts; table analysis tools; audit and validate workbooks; inserting graphics and hyperlinks; consolidating data and linking workbooks; sorting and filtering; work with external data sources; data tables; PivotTables; macros; templates; sharing workbooks. Comprehension levels: Math 8th grade, Reading 10th grade, Vocabulary 10th grade

KACT 0135 – Accounting **140 hrs**

This course takes students from an introduction to the accounting cycle, the double entry framework and the basic concepts in accounting all the way to the generation of financial statements and the year end accounting procedures for service and merchandising businesses. It emphasizes in the use of manual systems.

KACT 0170 – Records Management **30 hrs**

Students learn business alphabetic filing skills.

KACT 0185 – Basic QuickBooks **40 hrs**

This course teaches students on how to utilize QuickBooks to create companies, record transactions and adjust and correct entries.

KACT 0195 – Comprehensive QuickBooks **80 hrs**

This course teaches students on how to utilize QuickBooks to create companies, record transactions and adjust and correct entries.

KAIT 0100 – National Electrical Code **12 hrs**

This course will provide a step by step guide to the most current 2011 National Electrical Code, providing an over-view of each chapter. The course will help you understand the structure and logic of the NEC rather than memorize all the details. Material that appears outside the NEC main body, including the index, annexes, and Article 90, is also discussed in this essential handbook.

KAIT 0105 – Automated Systems **96 hrs**

Prereq:KET2 0106. This course will provide a solid foundation in Industrial Automated Systems, Instrumentation and Motion Control. The student will understand the full spectrum of industrial maintenance and control, from servomechanisms to instrumentation. Coverage of components, circuits, instruments, control techniques, calibration, and programming associated with industrial automated systems.

KAIT 0110 – Instr & Control Documentation **12 hrs**

This course will cover Control Systems Documentation, Development of piping and instrument diagrams (P&IDs) and related ANSI/ISA drawings are emphasized, covering both the development and the reading/interpreting of these documents.

KAIT 0115 – Measurement and Control **72 hrs**

Recommended Prereq: KET2 0106.This course will provide the fundamentals of industrial process, measurement, and control. Applying the principles necessary to understand the variables that affect industrial automation and process control systems. Coverage of process control, loops, analytical measurement, process visualization and process control computer-based systems.

KAIT 0120 – Elec Motors & Control Systems **60 hrs**

Recommended Prereq: KAIT 0115. Coverage of a broad range of motor types, control systems, electric motor operation, selection, installation, control and maintenance. Industrial applications of variable speed drives for constant torque, constant horsepower, and variable torque/variable horsepower. Coverage of motor starter circuits, reduced voltage starting techniques, and stepper/servo motors.

KAIT 0125 – Fluid Power Systems **60 hrs**

Recommended Prereq: KAIT 0120. Broad coverage of fluid power technology, balancing theory and applications;how electrical currents control the operation of fluid power systems, the design, analysis, operation, and maintenance of fluid power systems. Complete coverage of both HYDRAULIC and PNEUMATICS systems, and the use of fluids under pressure to generate, control, and transmit power.

KAIT 0130 – Main of Instruments & Systems **60 hrs**

Recommended Prereq: KAIT 0125.Comprehensive coverage of maintenance requirements for pneumatic and electrical/electronic devices, DCS systems, analytical instrumentation, fiber optics, and smart instruments. Installing, Calibrating, and Maintaining Electronic Instruments and systems combines theory and hands-on experience, such as configuring and calibrating transmitters, transducers, and controllers.

KAIT 0135 – Troubleshooting Automated Sys **48 hrs**

Recommended Prereq: KAIT 0130.This course presents a systematic approach to troubleshooting and start-up of single- and multi-loop control loops. Coverage of how pressure, level, flow, and temperature loops operate to maintain good process control systems. A logical Troubleshooting approach is covered, test equipment, programmable systems, communication circuits, transient problems, and software.

KAIT 0140 – Industrial Data Communications **36 hrs**

Recommended Prereq: KAIT 0135.This course will cover industrial data communication concepts that are needed to understand, troubleshoot, and maintain both legacy and leading-edge systems. Emphasizing practical functional aspects of common systems rather than design criteria, it includes a complete description of relevant terminology, standards, and protocols including EIA/TIA 232, 485, and IEEE 802.

KAIT 0145 – ISA CST Associate Exam Prep **16 hrs**

This course helps to prepare the Student for the ISA Control Systems Technician Associate recognition examination. The ISA CST Associate examination measures a fundamental understanding of knowledge in automation and control, has specialized work experience and/or an educational background in automation and control or a related field.

KALL 0110 – Integrated Learning Lab **64 hrs**

Recommended Coreq: KABR, KABM, KGED. Students receive supplementary computer-assisted instruction in math, reading comprehension, vocabulary, spelling, grammar, and GED subjects.

KAOS 0110 – Beginning Keyboarding **20 hrs**

This course teaches the efficient operation of the keyboard, including the touch method of operation, correct techniques, and correct fingering.

KAOS 0115 – Keyboarding/Skillbuilding **80 hrs**

This course teaches and reinforces the touch method of keyboarding, with emphasis on attaining the speed, accuracy, and knowledge necessary for an entry-level job.

KAOS 0145 – Basic Ten-Key **25 hrs**

This course teaches basic ten-key calculator concepts and applications using the touch method, with emphasis on attaining speed, accuracy, and skills necessary to qualify for an entry-level job.

KAOS 0155 – Intermediate Ten-Key **50 hrs**

This course teaches basic ten-key calculator concepts and applications using the touch method, with emphasis on attaining speed, accuracy, and skills necessary to qualify for an entry-level job.

KAOS 0165 – Comprehensive Ten-Key **75 hrs**

This course teaches basic ten-key calculator concepts and applications using the touch method, with emphasis on attaining speed, accuracy, and skills necessary to qualify for an entry-level job.

KAOS 0170 – Computer Concepts **30 hrs**

Students learn the basic features of computer hardware and software, Windows, Microsoft WordPad, Microsoft Paint, File Management, basic knowledge of the Internet and skills necessary to qualify for an entry-level job.

KAOS 0185 – Basic Word Processing **40 hrs**

Students learn basic word processing skills including creating, opening, closing, editing, saving, printing, and managing files; character, paragraph, and page formatting; using the spell check and thesaurus; formatting letters and memos; creating and utilizing tables and columns.

KAOS 0195 – Comprehensive Word Processing **80 hrs**

Students learn basic to advanced word processing skills including creating, editing formatting, and printing documents; using reference tools; tables and columns; inserting graphics; mail merge; fields and forms; macros; footnotes, endnotes, bibliographies, outlines, and table of contents; create comments; compare and merge documents; track changes; and create hyperlinks.

KAOS 0215 – Basic Business Communications **40 hrs**

Students learn basic principles of English grammar including punctuation, number usage, capitalization, sentence structure, nouns, pronouns, and verbs. In addition, the course includes spelling, dictionary and reference manual usage, paragraph and essay writing, and proofreading.

KAOS 0225 – Intermediate Business Commun **58 hrs**

Students learn basic principles of English grammar including punctuation, capitalization, number usage, sentence structure, nouns, pronouns, verbs, adjectives, adverbs, prepositions, and conjunctions. In addition, the course includes spelling, dictionary and reference manual usage, paragraph, e-mail, essay, memo, and letter writing, and proofreading.

KAOS 0235 – Advanced Business Communications **69 hrs**

Students learn basic principles of English grammar including punctuation, capitalization, number usage, sentence structure, nouns, pronouns, verbs, adjectives, adverbs, prepositions, conjunctions, misused verbs, and appropriate word choice. In addition, the course includes spelling, dictionary and reference manual usage, paragraph, e-mail, essay, memo, and letter writing, and proofreading.

KAOS 0245 – Comprehensive Business Communications **90 hrs**

Students learn basic principles of English grammar including punct, cap, number usage, sent structure, nouns, pro, verbs, adj, adv, prep, conj, misused verbs, appropriate word choice, verb tense, phrases, and clauses. In addition, the course includes spelling, dictionary and reference manual usage, paragraph, e-mail, essay, memo, letter, and report writing, and proofreading.

KAOS 0250 – Customer Service/Life Skills **60 hrs**

This class covers professionalism as it pertains to attitude, ethics, communications, appearance, verbal presentation, conflict management/resolution, problem solving, team skills, telephone etiquette, note taking, manners at work, corporate etiquette, up-selling, and life skills.

KAOS 0260 – Presentations **30 hrs**

Students learn and demonstrate MS PowerPoint presentation software including creating, modifying, enhancing, and formatting slides and using embedding techniques.

KAOS 0270 – Database **40 hrs**

This course introduces spreadsheet functions and applications. Students will learn how to design, create, manipulate, calculate, and present data. Students will utilize critical thinking skills and apply spreadsheet techniques in developing information for business applications.

KCDL 0100 – CDL Learner's Permit **16 hrs**

Prepare for the CDL learners permit written test with the following endorsements: general knowledge, air brakes, and combinations (tractor and single trailer).

KCDL 0120 – CDL License Upgrade **80 hrs**

This course is designed to give students who are sponsored by companies backing skills, over-the-road driving practice, shifting and other skills required by their employer. Includes the CDL road test.

KCMA 0065 – Medical Office Communications and Records 55 hrs
Recommended Prereq: KCMA 0105. Provides training in proficient medical office communication and administrative skills, the fundamentals of beginning and tracking a patient record using both paper and electronic medical record (EMR) software. Introduction to medical terminology suffixes and prefixes.

KCMA 0105 – Working In The Healthcare Environment 70 hrs
Recommended Prereq: KAOS 0110 and KAOS 0170. An overview of the medical assistant profession and its role in the health care environment, introduction to the legal and ethical issues that impact the healthcare setting, basic principles of psychology in a health care environment and the impact of ethnic cultures in healthcare as well as introduction to medical terminology in these areas.

KCMA 0115 – Medical Assisting Procedures 1 95 hrs
Recommended Prereq: KCMA 0065. Provides the guidelines for personal safety and well-being of staff and patients learning and practicing the CDC guidelines for hand hygiene and government regulations for standard and biohazard wastes. Provides a fundamental understanding of vital signs, basic first aid and healthcare provider level CPR. Provides a fundamental understanding and skill in phlebotomy.

KCMA 0125 – Medical Assisting Procedures 2 60 hrs
Recommended Prereq: KCMA 0115. Provides understanding of basic concepts, safety and procedures of clinical lab. Learn proper handling and performance of CLIA waived hematology/serology labs and proper specimen handling and performance of microbiology and urinalysis testing.

KCMA 0135 – Medical Assisting Procedures 3 110 hrs
Recommended Prereq: KCMA 0125. Provides understanding of the basic skills and procedures for assisting with patient exams. Learn to prepare patients for diagnostic, therapeutic, rehabilitation, and radiology procedures. Provides understanding of heart anatomy and electrical physiology as students properly perform ECGs. Learn to calculate medication dosages and administer nonparenteral and parenteral medications.

KCMA 0165 – Introduction To Medical Insurance & Billing Procedures 40 hrs
Recommended Prereq: KCMA 0065. Provides an introduction to medical insurance procedures. Exposes the clinical medical assistant to medical office financial procedures.

KCMA 0200 – Assisting w/Office Procedures 220 hrs
Recommended Prereq: KCMA 0135 Fourteen modules cover medical assisting in a variety of medical office procedures related to specialties and/or exams including the associated anatomy, physiology and medical terminology.

KCMA 0420 – Final Review & Cert Prep 10 hrs
Recommended Prereq: KCMA 0200. Focuses on completion of a final exam covering all competencies of the medical assistant and preparation for clinical externship.

KCMA 0431 – Clinical Medical Assisting **165 hrs**

Recommended Prereq: KCMA 0420. This course provides an unpaid clinical opportunity for students to demonstrate and practice their medical assisting skills with clinical site supervision in a healthcare setting.

KCMS 0136 – Computer Components **75 hrs**

Prereq: Minimum basic skills required as defined by program. Please see an admissions advisor. This course covers techniques for basic computer hardware and operating systems, including installing, building, upgrading, repairing, configuring, and troubleshooting.

KCMS 0140 – Storage and Multimedia **75 hrs**

Recommended Prereq: KCMS 0136. This course covers techniques for basic computer hardware and operating systems, including installing, building, upgrading, repairing, configuring, and troubleshooting.

KCMS 0151 – Wired and Wireless **75 hrs**

Recommended Prereq: KCMS 0140. This course stresses troubleshooting and interacting with customers who work or intend to interact with clients resolving technical issues.

KCMS 0180 – Software and Security **75 hrs**

Recommended Prereq: KCMS 0151. This course stresses troubleshooting and interacting with customers remotely via the telephone or e-mail. It is targeted to individuals who intend to interact with clients resolving technical issues.

KCMS 0201 – Basic Externship **75 hrs**

Recommended Prereq: KCMS 0180 and instructor approval. Students will participate in an externship with a local company and will learn and experience first-hand, strong teamwork skills which should prepare them as viable, experienced job applicants when seeking employment after graduation.

KCMS 0202 – Advanced Externship **75 hrs**

Recommended Prereq: KCMS 0201. In this elective, students will continue the cooperative externship with a local company. The student will receive additional hands-on experience and teamwork skills providing them with additional hours in the workplace setting.

KCMS 0240 – Intro to Networking Technology **75 hrs**

Prereq: Minimum basic skills required as defined by program. Please see faculty. This course covers techniques of basic networking technologies and operating systems, including installing, building, upgrading, repairing, configuring, troubleshooting, diagnosing, and security.

KCMS 0250 – Advanced Network Technology **75 hrs**

Recommended Prereq: KCMS 0240. This course is a continuation of KCMS 0240 which covers techniques of basic networking technologies and operating systems, including installing, building, upgrading, repairing, configuring, troubleshooting, diagnosing, and security.

KCMS 0350 – Customer Service Help Desk **75 hrs**

This course takes a detailed look at the characteristics of excellent technical customer support including soft skills, business skills and self-management skills.

KCMS 0415 – Linux Administration **75 hrs**

Prereq: Minimum basic skills required as defined by program. Please see faculty. This Linux Administration course includes installation, command syntax, systems management, file systems, devices, upgrades, as well as other common administrative tasks. Can be used as preparation for the CompTIA Linux+ industry exam.

KCMS 0440 – Intro to Security Principles **75 hrs**

Recommended Prereq: KCMS 0250 or related knowledge and experience in IT, including but not limited to: encryption protocols, ports, viruses, and threats. This course explores real world threats to network security including known network vulnerabilities and security breaches. Defense software, devices, tools, and procedures are investigated. Course 1 of 2 in preparation for CompTIA Security+ exam.

KCMS 0450 – Advanced Security Principles **75 hrs**

Recommended Prereq: KCMS 0440. This course continues the exploration of real world threats to network security. Advanced security attack methods are analyzed and advanced procedures and protocols are investigated, including cryptography and recovery plans and procedures. Course 2 of 2 in preparation for CompTIA Security + industry test.

KCMS 0500 – Mac OS X Essentials **75 hrs**

This course covers basic installation, configuration, and support of Apples OS X operating system.

KCMS 0520 – Advanced Mac OS **75 hrs**

Recommended Prereq: KCMS 0500. This course prepares students for advanced Mac OS tasks including working with images and video, printing, automation and troubleshooting.

KCMS 0810 – Microsoft Technology Associate Networking Fundamentals **50 hrs**

Recommended Prereq: KCMS 0180 or instructor permission. This course allows students to gain a solid foundation for understanding networking concepts upon which more advanced topics and technologies can be built. Students will learn networking components, understand the OSI model, core TCP/IP protocols, and how to network components. For students to successfully pass this this course, they must earn Microsoft MTA certification #98-366.

KCMS 0820 – Microsoft Technology Associate Security Fundamentals 50 hrs
Recommended Prereq: KCMS 0180 or instructor permission. This course offers students a chance to discover and demonstrate knowledge of network security fundamentals and earn a Microsoft Technology Associate (MTA) certification. This course will also help prepare the students for further courses and prove commitment and understanding of a variety of entry-level technology concepts. This course is in line with the HigherEd Utah 2020 Master Plan by help providing another source for post-secondary degree/training.

KCMS 0830 – Microsoft Technology Assoc Windows Server Administration Fundamentals 50 hrs
Recommended Prereq: KCMS 0180 or instructor permission. Microsoft Technology Associate Windows Server Administration Fundamentals course is designed to provide students with an explanation and understanding of fundamental server administration concepts. This training course prepares students for Microsoft exam 98-365. This course will lead to certification which is in line with the HigherEd Utah 2020 Master Plan by help providing another source for post-secondary degree/training.

KCMS 0840 – Microsoft Technology Associate Windows Operating System Fundamentals 50 hrs
Recommended Prereq: KCMS 0180 or instructor permission. Networking Fundamentals is designed to provide students with an explanation and understanding of fundamental networking concepts. This training course prepares students for Microsoft exam 98-349. This course will lead to certification which is in line with the HigherEd Utah 2020 Master Plan by help providing another source for post-secondary degree/training.

KCNA 0010 – CPR Health Care Professionals 4 hrs
Prepares and certifies students in CPR for Health Care Professionals.

KCNA 0100 – Patient Care Theory 74 hrs
Students learn the skills required to meet the needs of acute, chronic, long-term, and chronically ill patients in hospitals, long-term care facilities, and in the home, while preparing for the state Certified Nurse Assistant exam.

KCNA 0110 – Skills Lab 20 hrs
This lab must be taken concurrently with the Patient Care Theory course. Students will practice and demonstrate patient care skills that align with the theory portion of the program.

KCNA 0120 – Patient Care Long Term Clinic 16 hrs
Students practice and demonstrate patient care skills in a long term care facility.

KCNA 0140 – Patient Care Acute Care Clinic 12 hrs
Students practice and demonstrate patient care skills in a hospital.

KECT 0110 – Signal Processing **60 hrs**

Recommended Prereq: KET2 0106. This course will cover the fundamentals of signal processing, to include modern Digital Signal Processing, complete coverage of systems, principles of electronic signals, both analog and digital. AM/FM circuits, modulation and multiplexing techniques, acquisition, reconstruction, sampling and quantization, Phase Locked Loop circuits, and hands-on projects of processing circuits.

KECT 0111 – Electronic COM Systems **120 hrs**

Recommended Prereq: KECT 0110. This course will cover the principles of Electronic Communication Systems, a systems approach covering communications technologies, wave propagation, HF fundamentals, AM/FM circuits, AM/CB/SSB transceivers, Multiplexing (DEMUX), Data Transmission Techniques, Transmission Lines, Smith Chart usage, Communication Tests and Measurements,and Electromagnetic Interference Testing.

KECT 0112 – Antennas, Transmission Lines & Towers **60 hrs**

Recommended Prereq: KECT 0111.This course will provide basic Antennas concepts, antenna theory and practical designs, antenna projects, antenna impedance, transmission Lines, antenna measurements and Antenna Modeling. In the Tower portion of the course you will learn the proper procedures working with towers, inspections, performing maintenance, Cables, Connections, and safety measures for antennas and towers.

KECT 0113 – Telecommunications & Data Communications **72 hrs**

Recommended Prereq: KECT 0140.This course will cover Telecommunications and Data Communications Technologies that support modern communication systems, Analog & Digital Telephony, protocols, optical wiring, wireless telephony, safety, transmission services, cabling, test equipment, distribution methods, Interfacing, Internet, networks and troubleshooting. This course will prepare for the TCM certification.

KECT 0114 – FCC License Preparation - General Radiotelephone Operator License **36 hrs**

Recommended Prereq: KECT 0113. Covers principles of AM/FM/ phase/modulation/pulse modulation/tuned RF/power amplifiers, transmission lines/antennas/transmitter-receiver fundamentals/maritime-aviation radio law. Students prepare for General Radiotelephone Operators License (GROL) FCC exam. A requirement to adjust, maintain, or internally repair FCC licensed radiotelephone transmitters.

KECT 0141 – Microwaves and Radar Systems **72 hrs**

Recommended Prereq: KECT 0112. This course covers microwave systems, devices, and provides an understanding of how everything fits together to make communications, navigation, and equipment.Topics include microwave fundamentals, power, equipment for measuring microwave,signal control components, IC amplifiers, microwave oscillators, receivers, microwave tubes, antennas, relay, satellite and radar systems.

KECT 0151 – Fiber Optics Installer Certification **96 hrs**

The Fiber Optics course will cover, installation, preparation, troubleshooting, and design of fiber optics cables and systems. Lab projects will include cable preparation and connectors, splicing, OTDR usage and industry standards. Theory and Hands-on training covers all competencies required of a FOI Technician and knowledge to pass the examination.

KEET 0100 – LabVIEW Basics: Introd & Dev. **96 hrs**

Prereq: Experience with Microsoft Windows and writing algorithms in the form of flowcharts or block diagrams. The course introduces the LabVIEW environment, its features, dataflow programming, and common architectures. It also teaches you to design complete, stand-alone applications. Prepares for Associate Developer Cert.

KEET 0400 – Schematic Capture & Simulation **72 hrs**

Prereq: Completed Electronics Core or Equivalent. This course introduces the Multisim integrated capture and simulation design environment. Learn how to build a schematic and evaluate circuit performance through interactive simulation and analyses.

KEET 0500 – Printed Circuit Board Design **72 hrs**

Prereq: Completed Electronics Core or equivalent. Recommended Preq: KEET-0400. This PCB layout course provides the basics of the Utiliboard environment. It prepares you to transfer Multisim schematic netlists to Ultiboard and design a printed circuit board for export to production.

KELA 0151 – Universal Assembly and Repair **72 hrs**

A project oriented course that provides basic soldering and assembly skills required of electronics technicians. The focus is on thru-hole soldering to industry specifications.

KELA 0161 – Surface Mount Technology **72 hrs**

Recommended Prereq: KELA 151 or equivalent education or experience, must provide proof of this to dept. Learn theory, installation, and quality workmanship methods involved in surface mount technologies (SMT), including component identification, placement, and rework soldering techniques.

KELA 0172 – IPC-A-610E Cert IPC Specialist **36 hrs**

Designed and certified by IPC. Enables students to make correct accept/reject decisions for appropriate class(es) of electronic assemblies. Certification earned through examination.

KELA 0175 – IPC-A-610E IPC Certified IPC Specialist Recertification/Challenge Option 12 hrs
Recommended Prereq: Previous IPC Certifications. Designed and certified by IPC, this course supports challenge testing. A "Challenge Test" will involve the applicant completing the same skills measurement examinations as is required of those taking the full course. Individuals are limited to take a challenge test more than once in any twelve-month period.

KELA 0190 – Basic Assembly and Soldering 24 hrs
A basic assembly and soldering skills course required of communications electronics technicians. The focus is hand-on thru-hole soldering to industry specifications.

KEMA 0167 – IPC-J-STD-001E Cert 36 hrs
Prereq: Students must have quality through-hole and surfact-mount soldering background: Universal Assembly and Repair (KELA 0151 or equivalent) Surface Mount Assembly (KELA 0161 or equivalent) IPC 610 E Certification Specialist (KETA 0172 or equivalent) or instructor permission based on industry experience or other factors that suggest the student will be successful in this course. J-STD-001 E is a consensus standard for soldering materials/ processes using lead-tin and lead-free solder. Course has practical and academic elements. Certification requires practical and written exams.

KEMA 0168 – IPC/WHMA-A-620 Cert 64 hrs
IPC/WHMA-A-620 is a consensus standard for requirements and acceptance for cable and wire harness assemblies. Prepares students for the IPC written Certification Exam.

KEMA 0169 – IPC/WHMA-A-620B CIS Cert 60 hrs
This course will cover the Requirements and Acceptance for Cable and Wire Harness Assemblies, as defined by the IPC/WHMA-A-620B industry-consensus standard. The student will learn the criteria for wire prep, soldering to terminals, crimping, ultrasonic welding, splicing, connectors, molding, marking, coax cables, wrapping,and be prepared to be obtain IPC-620B CIS certification.

KEMA 0170 – IPC-J-STD-001E Certified IPC Specialist Recertification/Challenge Option 16 hrs
Prereq:Proof of previous J-STD IPC Certification or completion of 151 and 161 courses or equivalent. Designed and certified by IPC, this course supports challenge testing. A "Challenge Test" will involve the applicant completing the same skills measurement examinations as is required of those taking the full course. A challenge test can only be taken once in any twelve-month period.

KEMA 0171 – IPC/WHMA-A-620 Certified IPC Specialist Recertifcation/Challenge Option 12 hrs
Recommended Prereq:Previous IPC Certifications. Designed and certified by IPC, this course supports challenge testing. A "Challenge Test" will involve the applicant completing the same skills measurement examinations as is required of those taking the full course. A challenge test can only be taken once in any twelve-month period.

KEMA 0172 – Introduction to Mfg Processes **60 hrs**

This course is a study of Manufacturing Processes, covering types of processes and their elements such as chemicals, thermal, material properties, systems, manufacturing science, dimensions, tolerances, composites, metallurgy, processing of ceramics/cermets, sheet metal, surface processing operations, mechanical assembly, process technologies, and quality control and inspection.

KEMA 0180 – Electromechanical Project **70 hrs**

This project-based course combines material from previous courses with industry requirements to complete an entire project. Mechanical/electronics assembly/safety/handling/ cleaning, and cabling/harnessing are emphasized.

KESL 0010 – ESL Pre to-Beginning Literacy **1-20 hrs**

Prereq: CASAS 0-150. Introduction to basic reading, writing, and communication skills.

KESL 0020 – Low Beginning ESL **1-20 hrs**

Prereq: CASAS 151-179. Introduction to basic reading, writing, and communication skills.

KESL 0110 – Beginning Grammar/Writing **110 hrs**

Prereq: CASAS 180-200, CELSA 10-20. Introduction to basic parts of speech, verb forms, and writing.

KESL 0112 – Beginning Grammar/Writing **90 hrs**

Prereq: CASAS 180-200, CELSA 10-20. Introduction to basic parts of speech, verb forms, and writing.

KESL 0120 – Beginning Reading **60 hrs**

Prereq: CASAS 180-200, CELSA 10-20. Introduction to general reading skills.

KESL 0122 – Beginning Reading **45 hrs**

Prereq: CASAS 180-200, CELSA 10-20. Introduction to general reading skills.

KESL 0150 – Beginning Listening and Speaking Skills **60 hrs**

Prereq: CASAS 180-200, CELSA 10-20. Introduction to basic listening and speaking skills.

KESL 0152 – Beginning Listening/Speaking **45 hrs**

Prereq: CASAS 180-200, CELSA 10-20. Introduction to basic listening and speaking skills.

KESL 0210 – Intermediate Grammar/Writing **120 hrs**

Preeq: CASAS 201-220, CELSA 21-39. Practice with basic verb forms and parts of speech. Inroduction to perfect tenses. Short pararaph writing with correct grammar, sentence word order, capitalization and punctuation.

KESL 0212 – Intermediate Grammar/Writing **90 hrs**
Prereq: CASAS 201-220, CELSA 21-39. Practice with basic verb forms and parts of speech. Introduction to perfect tenses. Short paragraph writing with correct grammar, sentence word order, capitalization and punctuation.

KESL 0220 – Intermediate Reading **60 hrs**
Prereq: CASAS 201-220, CELSA 21-39. The focus is on developing reading and vocabulary skills.

KESL 0222 – Intermediate Reading **45 hrs**
Prereq: CASAS 201-221, CELSA 21-39. The focus is on developing reading and vocabulary skills.

KESL 0250 – Intermed Listen/Note-take **60 hrs**
Prereq: CASAS 201-221, CELSA 21-39. Introduce and develop listening strategies, note-taking and organizational skills, vocabulary building, and speaking abilities in various contexts.

KESL 0251 – Intermed Listening/Speaking **60 hrs**
Prereq: CASAS 201-220, CELSA 21-39. Introduce and develop listening and speaking fluency in various contexts, as well as build vocabulary.

KESL 0252 – Intermed Listening/Speaking **45 hrs**
Prereq: CASAS 201-220, CELSA 21-39. Develop intermediate listening and speaking skills.

KESL 0253 – Intermed Listen/Note Taking **45 hrs**
Prereq: CASAS 201-220, CELSA 21-39. Develop intermediate listening strategies and note-taking skills.

KESL 0310 – Advanced Grammar/Writing **120 hrs**
Prereq: CASAS 221-235, CELSA 40-57. Extensive practice with all verb tenses. Introduction and practice with modals. Paragraph writing with correct grammar, sentence word order, capitalization and punctuation.

KESL 0312 – Advanced Grammar/Writing **90 hrs**
Prereq: CASAS 221-235, CELSA 40-57. Extensive practice with all verb tenses. Introduction and practice with modals. Paragraph writing with correct grammar, sentence word order, capitalization and punctuation.

KESL 0320 – Advanced Reading **60 hrs**
Prereq: CASAS 221-235, CELSA 40-57. Advanced reading and vocabulary development.

KESL 0322 – Advanced Reading **45 hrs**
Prereq: CASAS 221-235, CELSA 40-57. The focus is on developing advanced reading and vocabulary skills.

KESL 0350 – Advanced Listen/Note-take **60 hrs**
Prereq; CASAS 221-235, CELSA 40-57. Refine listening strategies, note-taking and organizational skills, academic vocabulary building, cooperative speaking activities, and test-taking skills.

KESL 0351 – Advanced Listening and Speaking **60 hrs**
Prereq: CASAS 221-235, CELSA 40-57. Develop and refine listening skills and speaking fluency in various contexts, as well as build vocabulary.

KESL 0352 – Advanced Listening/Speaking **45 hrs**
Prereq: CASAS 221-235, CELSA 40-57. Develop and refine listening and speaking fluency in various contexts.

KESL 0353 – Advanced Listen/Note Taking **45 hrs**
Prereq: CASAS 221-235, CELSA 40-57. Develop advanced listening strategies and note-taking skills.

KESL 0452 – Language Lab **45 hrs**
Prereq: CASAS 201-235, CELSA 21-57. Improve pronunciation, conversational skills, language skills, and typing ability.

KESL 0455 – Language Lab **60 hrs**
Prereq: CASAS 180-235; CELSA 10-57. Computer-aided instruction in spelling, pronunciation, grammar, vocabulary, reading, writing, and keyboarding, and/or communicative activities to develop fluency.

KESL 0470 – Developing Vocabulary And Dictionary Skills **60 hrs**
Prereq: CASAS 201-250; CELSA 40-66. Develop and build essential vocabulary for work, school, and specific content areas. Learn and develop useful dictionary skills.

KESL 0472 – Developing Vocabulary and Dictionary Skills **45 hrs**
Prereq: CASAS 221-250; CELSA 40-66. Develop and build essential vocabulary for work, school, and specific content areas. Learn and develop useful dictionary skills. ESL level must be at least Level 3.

KESL 0480 – Effective Communication Skills for Work & Study **60 hrs**
Prereq: CASAS 201-250; CELSA 40-66. Develop effective skills as needed for work and study for both oral and written communication. Develop an understanding of emotional intelligence and its impact.

KESL 0482 – Effective Communication Skills for Work & Study **45 hrs**
Prereq: CASAS 201-250; CELSA 40-66. Develop effective skills as needed for work and study for both oral and written communication. Develop an understanding of emotional intelligence and its impact. ESL level must be at least Level 3.

KESL 0490 – Reading For Career Development **60 hrs**
Prereq: CASAS 221-250; CELSA 40-66. Strengthen reading skills as needed for career and technical training using a variety of materials and in a variety of contexts.

KESL 0492 – Reading for Career Development **45 hrs**
Prereq: CASAS 221-250; CELSA 40-66. Strengthen reading skills as needed for career and technical training using a variety of materials and in a variety of contexts.

KESL 0711 – Pre-College Writing **60 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Students are taught correct organizational styles for writing summaries of readings and college level essays.

KESL 0712 – Pre-College Writing **45 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Students are taught correct organizational styles for writing summaries of readings and college level essays.

KESL 0721 – Pre-College Reading **60 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Advanced reading and vocabulary skills are practiced.

KESL 0722 – Pre-College Reading **45 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Advanced reading and vocabulary skills are practiced.

KESL 0731 – Pre-College Listening/Speaking **30 hrs**
Prereq: CASAS 236-250; CELSA 58-75. Develop listening skills for determining key information in a talk or lecture. Develop conversational skills. Develop presentation skills.

KESL 0732 – Pre-College Listening/Speaking **21 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Improve pronunciation and fluency of American English.

KESL 0740 – Pre-College Computer Skills **60 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Introduction and practice as needed for college success: word processing, e-mail, internet and writing lab.

KESL 0742 – Pre-College Computer Skills **45 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Introduction and practice as needed for college success : word processing, email, internet and writing lab.

KESL 0751 – Pre-College Grammar **60 hrs**
Prereq: CASAS 236-250, CELSA 58-75. Students will refine their grammar abilities for linguistic competence and accuracy.

KESL 0752 – Pre-College Grammar **45 hrs**

Prereq: CASAS 236-250, CELSA 58-75. A refining of grammar abilities for linguistic competence and accuracy.

KET2 0101 – Electronics Math **100 hrs**

The Electronics Math course will cover basic math, a review of arithmetic fundamentals, metric notation, and square roots. Algebra fundamentals, linear equations, graphing, and logarithms in electronics is also covered. The fundamentals of trigonometry, and statistics is also covered, as well as the proper usage of the scientific calculator.

KET2 0102 – Technical Writing **18 hrs**

This course will cover the principles of technical writing, organization, formats, and knowing the audience. It will cover formats of page design, elements of reports, formats of correspondence, and writing proposals. The course will cover the skills needed to write and support required engineering related documentation, such as proposals and engineering lab reports.

KET2 0103 – DC Fundamentals & Circuits **120 hrs**

Recommended Prereq: KET2 0101 or equivalent. The course will cover DC fundamentals, resistive components, Ohms Law, Power calculations, Series and Parallel circuit formulas and characteristics. The usage of meters to measure voltage, current, resistance, and DC power sources. The course is a balance of theory, and hands-on, including measurements, troubleshooting, and circuit construction.

KET2 0104 – AC Fundamentals & Circuits **120 hrs**

Recommended Prereq: KET2 0103 or equivalent. The course will cover the fundamentals of AC circuits, transformers, inductors, capacitors, RL/RC, and RCL circuits, passive filters, and resonance circuits. The course will cover AC calculations, measurements, and troubleshooting. In addition, usage of Oscilloscopes, function generators, and frequency counters will be addressed.

KET2 0105 – Analog Devices & Circuits **160 hrs**

Recommended Prereq: KET2 0104 or equivalent.Coverage of a variety of semi-conductor devices, operating characteristics, calculations, circuit applications,measurement and troubleshooting; including diodes, transistors, V-regulators, Amps, and FET¿s. Also include oscillators, SCR¿s, multivibrators, and operational amplifiers circuits. Analog is covered through applications exploration.

KET2 0106 – Digital Circuits & Apps **160 hrs**

Recommended Prereq: KET2 0105 or equivalent. Covers digital fundamentals, electrical characteristics of digital IC¿s; testing and troubleshooting of logic circuits and applications; conversions/simplification. Applications; includes flip-flops, register memory circuits, arithmetic counting, displays, conversion. The focus will be on digital apps and will include hands-on projects.

KET2 0107 – CET Associate Tech Cert **32 hrs**

This course is designed to assist in the preparation for the CET Associate certification, for technicians who have less than two years experience or trade school training for electronics technicians. This industry certification represents your body of knowledge for Electronics Technicians. The course itself is a review of Electronics Technology, approximately 2 years of knowledge.

KET2 0108 – Test and Measurement Instrumentation **60 hrs**

Recommended Prereq: KET2 0106 or equivalent. Through a hands-on approach, the full-usage of common instruments such as Power Supplies, DMM, Oscilloscopes, and Spectrum/Logic Analyzers. The exploration of the Test and Measurement Industry, ATE, covering tools used to analyze, validate, and verify measurements of electronic and mechanical systems, operating principles, strengths and weaknesses.

KET2 0111 – Basic Computer Literacy **36 hrs**

Provides computer literacy skills including Windows, email/internet, word-processing, and spreadsheets.

KET2 0171 – Microprocessors **96 hrs**

Recommended Prereq: KET2 0106. Covers basic concepts of microcomputer and microprocessor architecture, assembly language and machine language programming, debugging and troubleshooting. Interfacing hardware/software, control and feedback is covered. The Freescale 68K, and HCS12 are covered devices.

KET2 0172 – Embedded Controllers **96 hrs**

Recommended Prereq: KET2 0106.This class covers the fundamentals of the microcontroller familys architecture and instruction set. Topics include the architecture, instruction set, writing and editing assembly programs, and programming devices. The PIC controller is covered.

KET2 0173 – Troubleshooting **96 hrs**

Recommended Prereq: KET2 0106. Covers the principles, techniques, and procedures for trouble-shooting electronics equipment. Covers power supplies, audio and RF systems, analog, and digital systems. Emphasis is on the use of test equipment and the troubleshooting process.

KET2 0220 – Coop. Internship - Elective **96 hrs**

Students participate in cooperative internship with a local company. Student and instructor will work with company to ensure students complete specific tasks and assignments in a workplace environment to enhance their competency.

KET2 0250 – Programmable Logic Controllers **96 hrs**

Programmable Logic Controllers course will provide coverage of all aspects of programming, installation, maintaining procedures and hardware components. Development of wiring diagrams, Ladder Logic Programs, Programming of Timers, Counters, Data Manipulation, Sequencer and Shift Register Instructions. Troubleshooting of process control, Network Systems, SCADA and usage of the CLX Controllers.

KFLT 0250 – Fork Lift Training **0 hrs**

Students learn the basic skills needed to safely operate fork lifts and pallet jacks.

KGED 0500 – GED Language Arts/Writing **64 hrs**

Recommended Coreq: KGED 600, KABM. Designed for individual study to prepare for the GED. Curriculum includes Reading/Writing. Test-taking tips are presented in the course to lessen test anxiety and to encourage confidence.

KGED 0600 – GED Test Preparation **64 hrs**

Prereq: TABE score of 8.0 in comprehension and vocabulary; complete levels 1-7 of KABM 0115 to enter level 8, GED Math. Recommended Coreq: KGED 0500, KABM; optional KALL 0110. Students prepare for the GED Social Studies, Science Exams. Test-taking tips are presented in the course to lessen test anxiety and encourage confidence.

KHUC 0190 – Health Unit Coordinating **60 hrs**

Students learn the skills required to work as a member of the health care team providing non-clinical support for patient care: maintain patient charts, transcribe doctors orders, order diagnostic tests/procedures, etc.

KHUC 0210 – Cooperative Externship **78 hrs**

Students participate in a cooperative externship with a local hospital. A cooperative preceptor assists with specific assignments to enhance the students competency and proficiency for work in a hospital nursing unit.

KHVT 0005 – Heavy Duty Brakes **0 hrs**

Provides theory and hands-on experience for students on maintenance and repair of air ABS, hydraulic brakes and wheel bearing systems.

KHVT 0010 – Preventive Maint. & Inspection **0 hrs**

Students prepare for complete inspection on the vehicle to ensure a safe operation. Covers inspections and repairs on items such as wheel bearings, engine inspections, checking lights, oil levels and tire and frame inspections.

KHVT 0015 – Suspension and Steering **0 hrs**

Provides theory and hands-on experience in maintenance and repair of the heavy duty steering and suspension systems. Covers shocks, kingpins, drag links, tie rods, steering bear box, straight axles, wheels, tire and frame service.

KHVT 0020 – Heavy Duty HVAC **0 hrs**

Provides theory and hands-on experience for students on troubleshooting and repair of heavy duty truck air conditioning systems, including condensers, check valves, driers, compressors, evaporators, controls and recovering, handling and installing different refrigerants.

KHVT 0025 – Diesel Engines **0 hrs**

Provides theory and hands-on training on basic operation, parts and overhaul procedures of a diesel engine. Students receive detailed instruction on engine lubricants, air cooling and exhaust systems.

KHVT 0030 – Electrical/Electronic Systems **0 hrs**

Provides theory and hands-on training on basic electrical components and systems. Includes alternators, lights, wiring, schematics, symbols and circuits. Students wire various circuits and use test equipment to troubleshoot components and systems.

KHVT 0035 – Safety and Shop Skills **0 hrs**

Provides theory and hands-on training on basic skills and safety needed for the diesel shop, including how to lift heavy materials properly, working with electrical machinery fire extinguishers, welding safety and hand tools.

KHVT 0040 – Hydraulics I **0 hrs**

Provides instruction and hands-on training for fluid power (hydraulics) as used in modern mobile equipment; includes practical theory and troubleshooting on hydraulic/pneumatic components.

KHVT 0060 – Drive Trains **0 hrs**

Provides theory and hands-on experience on maintenance and repair of the heavy duty drive train systems. Covers clutches, transmissions, drive lines and differentials.

KMAT 0010 – Machine Shop Intro Work Ethics **25 hrs**

Students learn job performances and attitudes that employers expect from their employees and are exposed to the machine shop as a possible career.

KMAT 0050 – Blueprint Reading **50 hrs**

Recommended Prereq: KMAT 0010. Students learn to read and interpret mechanical drawings and apply them to machining projects.

KMAT 0105 – Basic Mill **60 hrs**
Recommended Prereq: KMAT 0100. Students learn the basic operation of Knee Mills.

KMAT 0155 – Advanced Mill **60 hrs**
Recommended Prereq: KMAT 0105. Students learn the advanced operation of Knee Mills.

KMAT 0205 – Basic Lathe **60 hrs**
Recommended Prereq: KMAT 0010. Students learn the basic operation of metal cutting lathes.

KMAT 0250 – Advanced Lathe **60 hrs**
Recommended Prereq: KMAT 0205. Students learn the advanced operation of metal cutting lathes.

KMAT 0305 – Basic Grinding **60 hrs**
Recommended Prereq: KMAT 0010. Students learn the basic operation of Pedestal and Surface Grinders.

KMAT 0355 – Advanced Grinding **60 hrs**
Recommended Prereq: KMAT 0305. Students learn the advanced operation of Pedestal and Surface Grinders.

KMCB 0110 – Medical Filing **15 hrs**
This class covers basic concepts and rules governing medical filing, including the correct use of terminology. Both theory and practical applications are covered.

KMCB 0120 – Medical Terminology **30 hrs**
Through lecture and video presentations, students learn 300 medical elements (roots, suffixes, and prefixes), with emphasis on pronunciation, definitions, and usage.

KMCB 0130 – Anatomy/Med. Coding & Billing **40 hrs**
Recommended Prereq: KMCB 0120 Medical Terminology. This class covers the basis human anatomy and physiology concepts required to help the student prepare for the AACP and/or AHIMA national certification tests. Terminology will be covered with emphasis on body structures and systems.

KMCB 0140 – Medical Office Software **70 hrs**
The student will use medical office software to enter patient information, payment transactions, print statements and reports, create and submit insurance claims, prepare collection letters and reports, and schedule appointments.

KMCB 0165 – Intro to Electronic Health Records **50 hrs**
Students learn EHR documentation through industry-standard software. The students learn electronic charting with emphasis from the basic patient's chart to labs, tests, codes and templates. The students apply their knowledge by working through many case histories using the Spring Charts EHR software.

KMCB 0170 – ICD-10-CM Medical Coding **45 hrs**

Recommended Prereq: KMCB 0120 and KMCB 0130. This course covers basic concepts and rules governing medical insurance coding, including the correct use of terminology specific to the diagnostic coding process. It covers all the newly expanded disease classifications and provides the greater specificity required by ICD-10-CM. Lectures and practical application will be utilized. This course prepares students for the ICD 10 CM Certification

KMCB 0200 – Outpatient Medical Coding **150 hrs**

Recommended Prereq: KMCB 0120 and KMCB 0130. This course covers concepts and rules governing diagnostic and procedural coding in the outpatient setting using the ICD-9, CPT, and HCPCS coding manuals. Course will include web-enhanced lectures, exercises, and practical application in a structured classroom environment. Successful completion will help prepare students to take the AAPC and/or AHIMA national coding certification exams.

KMCB 0210 – Cooperative Externship 1 **80 hrs**

Recommended Prereq: KMCB 0200. The externship consists of 80 hours of work experience in an approved medical facility under professional supervision to give hands-on experience in the medical coding and billing profession.

KMCB 0221 – Intro to Med Insurance/Pharm **30 hrs**

Recommended Prereq: KMCB 0120 and KMCB 0200. Students will learn basic concepts of health insurance, benefit determination and how to fill out an insurance form. Students will also learn basics of pharmacology including clinical uses of drugs.

KMCB 0241 – Cooperative Externship 2 **80 hrs**

Recommended Prereq: KMCB 0170 and KMCB 0165. The externship consists of 80 hours of work experience in an approved medical facility under professional supervision to give hands-on experience with medical records.

KMDT 0010 – Introduction to Media Design **90 hrs**

An introduction to various multimedia applications: graphics, multi-media text, animation, sound, video, virtual reality and interactive features of multimedia. Learn the computer systems used to develop and play back multimedia products.

KMDT 0020 – Graphic Design Applications **90 hrs**

Focuses on familiarizing students with graphic design principles including color, typography and layout.

KMDT 0031 – Design Principles **90 hrs**

Recommended Prereq: KMDT 0020. This course focuses on basic elements of design; line, shape format, texture, and spatial arrangement. Students will complete assignments designed to integrate these concepts into a variety of media types.

KMDT 0040 – Computer Illustration **90 hrs**

Introduces concepts, technical information and artistic requirements for completing a successful illustration using the computer as a medium; includes creative techniques for drawing, designing, filling, blending and texturing.

KMDT 0101 – Design & Internet Technologies **90 hrs**

An introduction to the technologies associated with design applications for the internet; includes the basic use of XHTML, JavaScript, DHTML, DOM and the technologies involved with design and the internet.

KMDT 0111 – Web Design Fund. **120 hrs**

Recommended Prereq: Successful completion of KAOS 0170. Computer Concepts or upon instructor approval. The Web Design Fundamentals course covers web design creation and publication to the Internet such as: basic HTML, forms, graphics, HTML editors, publishing to the Internet, and basic web design and graphic layout principles.

KMDT 0120 – Web Design Authoring **120 hrs**

An introduction to web authoring tools that allows for the smooth integration of a variety of multimedia creations into a finished movie title; includes creating a multimedia CD/DVD that can be printed or published to the internet.

KMDT 0130 – Web Authoring Apps **90 hrs**

Recommended Prereq: KMDT 0320 or related knowledge and experience. Students will learn to design and create user-friendly, interactive websites without requiring a knowledge of developer skills. Students will design with useful graphic tools and publish HTML pages that conform to the latest web standards.

KMDT 0140 – Web Design Animation **90 hrs**

An introduction to a variety of elements involving web site animation. Learn applications that allow a web designer to create a variety of graphic objects that add visual stimulation to the web site.

KMDT 0171 – Electronic Portfolio **90 hrs**

The Electronic Portfolio course guides the student to prepare an electronic, web and physical version of their portfolio. When finished, students will have created a complete marketing package of their work on the web and via a CD ROM.

KMDT 0205 – Interactive Media Scripting **90 hrs**

Provides essential training for interactive scripting that supports authoring software programs such as Flash and Director. Students complete a series of projects which use programs to create interactive media projects.

KMDT 0210 – Web Developer Final Project **90 hrs**

Students complete a final project of their choice with instructor approval. Final projects are designed as they can be put forward in a proposal form or in a portfolio format.

KMDT 0220 – Web Programming Introduction **90 hrs**

An overview of various key Web development topics focused on Web applications that are dynamic, data-driven and interactive. An introduction to SML, VB. NET, ADO. NET, C#, CGI-PERL, Java, JSP, PHP, ColdFusion MX, Access, SQL.

KMDT 0230 – Web Application Scripting I **120 hrs**

Recommended Prereq: KMDT 0111. Teaches basic JavaScript programming concepts with syntax for program development and implementation. Create and modify simple JavaScript language applications and the tools to create more complex applications.

KMDT 0240 – Web Application Scripting II **120 hrs**

Recommended Prereq: KMDT 0111. Learn the advanced video capturing and editing techniques used in non-linear and linear editing programs on desktop computers. An introduction to production assignments and staffing, camera operation and positions and graphics.

KMDT 0300 – Desktop Publishing Fund **90 hrs**

An essential course for anyone looking for jobs in printing companies or prepress service bureaus. Learn the fundamentals of desktop publishing design and layout, and detailed use of at least one major publishing software program.

KMDT 0311 – Image Editing **90 hrs**

Edit, combine and manipulate digital images using industry standard software. Projects include creating line art, retouching damaged photos, building panoramic scenes, making digital collages and adding special effects.

KMDT 0320 – Desktop Publishing Apps **90 hrs**

Designed to teach skills for creating document layouts that are ready for printing and Web distribution using leading industry publishing software such as QuarkXPress. Maximize productivity for producing many different documents.

KMDT 0520 – Video Production I **90 hrs**

Covers the fundamentals of video capturing and video editing and detailed instruction in the use of non-linear editing programs including types of effects, titles, audio effects, equalization, videotape masters and EDLs.

KMOA 0101 – First Aid / CPR **10 hrs**
Students will understand the importance of knowing what to do in a timely manner during and shortly after a medical emergency including basic first aid and Healthcare provider CPR.

KMOA 0111 – Medical Terminology **70 hrs**
Learn the terminology needed to be successful in the medical and health care fields.

KMOA 0120 – Medical Law and Ethics **60 hrs**
Provides an overview of the legal and ethical issues that impact the health care setting.

KMOA 0130 – Psychology for Healthcare **30 hrs**
Provides an overview of the basic principles of psychology required in a health care environment.

KMOA 0145 – Anatomy and Physiology **50 hrs**
A study of the structure and function of the human body. Includes an overview of all organ systems including processes and diagnostic treatment modalities.

KMOA 0155 – Medical Office Procedures I **60 hrs**
The first in a series of three that teaches the basic skills needed to perform clerical functions and proper insurance, coding and billing procedures efficiently in a medical office setting.

KMOA 0170 – Medical Office Procedures II **60 hrs**
The second in a series of three that teaches the basic skills needed to perform clerical functions and proper insurance, coding and billing procedures efficiently in a medical office setting.

KMOA 0180 – Medical Office Procedures III **60 hrs**
The third in a series of three that teaches the basic skills needed to perform clerical functions and proper insurance, coding and billing procedures efficiently in a medical office setting.

KMOA 0210 – Medical Office Externship **90 hrs**
Provides an opportunity for the student to practice and demonstrate their administrative skills in a health care environment. This unpaid externship takes place in a working office or clinic under supervision.

KMOA 0211 – Medical Office Externship **160 hrs**
Recommended Prereq: KMOA 0180. This course provides an opportunity for the student to practice and demonstrate their administrative skills in a health care setting. This unpaid externship takes place in a medical office or clinic under supervision.

KNIT 0751 – Routing and Switching I (CCNA) 90 hrs
This Cisco Academy course provides a hands-on introduction to networking and the Internet using tools and hardware commonly found in the home and small business environments.

KNIT 0756 – Routing & Switching II (CCNA) 90 hrs
Recommended Prereq: KNIT 0751. This Cisco Academy course will help develop skills needed to provide support to users of small-to-medium-sized networks across a range of applications. The course provides an introduction to routing, remote access, network services.

KNIT 0760 – Routing & Switching III (CCNA) 90 hrs
Recommended Prereq: KNIT 0756. This Cisco Academy course helps develop the skills necessary to maximize enterprise LAN and WAN performance. The course provides advanced configurations of switching and routing protocols, access control lists, and WAN links.

KNIT 0765 – Routing & Switching IV (CCNA) 90 hrs
Recommended Prereq: KNIT 0760. This Cisco Academy course will develop the skills to design small enterprise LANs and WANs. The course will introduce how to collect customer requirements, translate those requirements into equipment, and create a network topology.

KNIT 0780 – Intro to Wireless Systems 75 hrs
Recommended Prereq: KCMS 0180 Software or instructor permission. This course is designed to teach students the knowledge needed for enterprise WLAN sales and support professionals who must be familiar and confident with the terminology and basic functionality of enterprise 802. 11 wireless networks.

KNIT 0785 – Advanced Wireless Systems 75 hrs
Recommended Prereq: KNIT 0780 Intro to Wireless Systems. This is the second course designed for students needing knowledge of enterprise WLANs for sales and support positions. Students will design, configure, and prepare equipment and perform site surveys for WLAN networks.

KNNA 0100 – Nutrition Assistant 20 hrs
Prereq: Current TB test results or x-ray within past 12 months. Designed to train students in the skills required to meet patient mealtime needs in long-term care or rehabilitation health care settings.

KNWE 0640 – Server Administration 1 90 hrs
Recommended prereq: Complete KNWE 0742 prior to enrolling. Learn to deploy operating systems, manage Windows updates with WSUS, monitor server and network performance, improve network share performance and reliability, secure data, configure Audit Policies, manage DNS records, zones and servers, and configure routing and VPN services. MCP and MCSA titles (Course 1 of 2 for exam 70-411).

KNWE 0642 – Server Installation & Configuration 1 **75 hrs**

Recommended prereq: CompTIA A+-level experience strongly recommended. Learn to install, configure, and troubleshoot Windows Server and server services such as disks and volumes, RAID, file and print services, remote server management, system and network virtualization, as well as IPv4 and IPv6 addressing. MCP and MCSA titles (Course 1 of 2 for exam 70-410).

KNWE 0646 – Advanced Server Services 1 **75 hrs**

Recommended prereq: Complete KNWE 0740 prior to enrollment. Learn advanced tasks necessary to deploy, manage, and maintain a Windows Server infrastructure. Topics in this course include Network Load Balancing, failover clustering, site-level fault tolerance, virtual machine migration, advanced file services, backup and disaster recovery. MCP and MCSA titles (Course 1 of 2 for exam 70-412).

KNWE 0680 – Configuring Windows Clients **75 hrs**

Students learn installing, upgrading, migrating and deploying Windows 7. This includes configuring hardware, application, and network connectivity exercises. Prepares student for the MCTS industry certification. (Exam 70-680)

KNWE 0740 – Server Administration 2 **90 hrs**

Recommended Prereq: KNWE 0640. From small offices to enterprise environments, learn to support and implement Windows Server services such as DirectAccess, Network Policy Server, Network Access Protection, Service Authentication, FSMO role maintenance, Group Policy settings, and Active Directory backup and recovery. MCP and MCSA titles (Course 2 of 2 for exam 70-411).

KNWE 0742 – Server Install & Config 2 **75 hrs**

Recommended Prereq: KNWE 0642. Learn to install, configure, and troubleshoot Windows Server services such as DHCP, DNS, Active Directory Domain Services, Domain Controller configuration, Group Policy, and user and computer creation and management. MCP and MCSA titles (Course 2 of 2 for exam 70-410).

KNWE 0746 – Advanced Server Services 2 **75 hrs**

Recommended Prereq: KNWE 0646. Learn advanced tasks necessary to deploy, manage, and maintain a Windows Server infrastructure. Topics include DNS security, IP Address Management (IPAM), multi-domain and multi-forest management and support, site configuration, replication, certificate services and more. MCP and MCSA titles (Course 2 of 2 for exam 70-412).

KNWE 0780 – Maintaining Windows Clients **75 hrs**

Students will monitor and maintain systems that run Windows 7 including configuring access to resources; mobile computing, backup and recovery. Prepares student for the MCTS industry certification (Exam 70-680).

KOLL 0100 – Open Learning Lab SCC OIS **1-300 hrs**

An open learning class developed specifically to track the Department of Workforce Services clients study time outside the traditional program hours.

KOLL 0200 – College Academic Readiness Center **32 hrs**

The College Academic Readiness Program is designed to prepare students for college level reading, writing, and mathematics, in addition to G.E.D. Preparation. The program features an open entry/open exit format, allowing flexible course start dates. It also features a blended curriculum of textbooks and software allowing for competency-based individualized instruction, with pre and post-testing for each unit to ensure students master the material

KPDR 0510 – Truck Driving/Class "A" CDL **160 hrs**

Prerequisites: Minimum age of 18 years.Valid D.O.T. Medical Card. Copy of motor vehicle record for the past 3 years. Pre-enrollment drug screen. This course consists of 21 milestones that cover basic and advanced operating practices, defensive driving, inspections, life skills and essential activities such as trip planning, map reading, hours of service and cargo handling.

KPDR 0521 – Extended Driving Course **80 hrs**

Recommended Prereq: KPDR 0510. This course provides students additional instruction and time behind the wheel after completing KPDR 0510 and consists of 11 milestones (units of instruction) that cover basic and advanced operating practices, defensive driving, inspections, and hours of service.

KWLD 0115 – Intro to Welding & Lab Safety **10 hrs**

Prereq: School of App Tech entry; good eyesight, lift 50 lbs. Students are provided with a general introduction to the art, science, and technology of welding. General industrial safety practices are taught.

KWLD 0126 – Oxy-Acetylene (OAW) **120 hrs**

Prereq: good eyesight, lift 50 lbs. Recommended Prereq: KWLD 0115. Learn practical welding and cutting skills using the oxyacetylene welding process on carbon steel. Safe practices and theory of OAW are taught.

KWLD 0136 – Basic Shielded Metal Arc Welding **190 hrs**

Prereq: good eyesight, lift 50 lbs. Recommended Prereq: KWLD 0126. Learn practical basic welding skills using the SMAW process on carbon steel. Safe practices and theory of SMAW are taught.

KWLD 0145 – Gas Metal Arc (GMAW) **160 hrs**

Recommended Prereq: KWLD 0135. Learn practical welding skills using the GMAW process on carbon steel and aluminum. Short circuiting and spray transfers. Safe practices and theory of GMAW are taught.

KWLD 0165 – Blueprint Reading for Welders **100 hrs**
Basic study of blueprint reading and drawing, welding symbols (AWS and SI), and NDT symbols.

KWLD 0170 – Flux Cored Arc (FCAW) **170 hrs**
Recommended Prereq: KWLD 0145. Learn practical welding skills using the FCAW process on carbon steel. Gas shielded and self-shielded. Safe practices and theory of FCAW are taught.

KWLD 0180 – Gas Tungsten Arc (GTAW) **140 hrs**
Recommended Prereq: KWLD 0170. Learn practical welding skills using the GTAW process on Fe and non-Fe metals. Safe practices and theory of GTAW are taught. Plasma Arc Cutting is also covered.

KWLD 0190 – Math for Welders **100 hrs**
Instruction in basic math skills needed by welders. Addition, subtraction, multiplication, and division of whole numbers, fractions, decimals, metrics, and currency. Basic geometry and trigonometry formulas are taught.

KWLD 0235 – Advanced Shielded Metal Arc Welding **150 hrs**
Prereq: good eyesight, lift 50lbs. Recommended Prereq: KWLD 0136, Learn practical advanced welding skills using the SMAW process on carbon steel. Safe practices and theory of SMAW are taught.

KWRK 0515 – Job Seeking Skills **15 hrs**
Prepares students to find employment related to their training; covers applications, networking in the job market, resumes (writing resumes, electronic resumes, and sending resumes), interviewing, and strategies for keeping a job.

LAND 1110 – Plumbing/Pipefitting Applica. **5 cr**
Prereq: APPR 1470 or appropriate Accuplacer score. This introductory course will put emphasis on drawing and sketching in relation to architectural drawings, isometric single-line pipe sketching, dimensioning, and working drawings.

LAND 1120 – Landscp Water Conserv./Elect. **5 cr**
Prereq: LAND 1110. This course introduces electrical theory for AC, DC, and low voltage applications. Electrical safety is strongly emphasized. Water conservancy through proper usage and variety of landscape practices.

LAND 1210 – Small Engine Repair/Mntenance **5 cr**
Prereq: LAND 1120. Designed to introduce apprentices to internal combustion, 2 and 4 cycle small engine theory and practical application. Preventative maintenance, fuel mixtures, repair and service are all introduced.

LAND 1220 – Pest Mngmt/Sustnbl. Landscapes **5 cr**

Prereq: LAND 1210. Controlling pests through proper management practices and application of pesticides. Various landscapes and typical control methods for preventing destruction by pests. Proper personal protection when making these control applications.

LAND 2310 – Fund. /Soil Sci. & Hort. Sci. **5 cr**

Prereq: LAND 1220. Designing and sustaining soils for a variety of plant proliferation. Desirable plants for varying soil conditions and watering practices. Application of fertilizers, how much, when, and for what vegetation.

LAND 2320 – Woody Plant Mat/Turfgrass Mgt **5 cr**

Prereq: LAND 2310. Theory, application of woody plant materials, management of various applications, and consistent practices for control and management of plants and materials. Maintenance and care of turfgrass through proper fertilization and care.

LAND 2410 – Arbor Culture **5 cr**

Prereq: LAND 2320. Cultivation of tree and wooded plant growth through proper soil conditions, water management and training practices.

LAND 2420 – Annual/Perenn. Plant Materials **5 cr**

Prereq: LAND 2410. Good landscaping practices through the utilization of annual and perennial plants with added available color variety and sustaining growth habitats.

LE 1200 – Major & Career Exploration **1 cr**

Prereq: RDG 0900. Overview of the various components involved in career exploration, major and career decision making, and career preparation/reevaluation when personal and/or environmental situations change. Elements include self-reflection, self-clarity, visioning, goal setting and planning, implementing and adapting.

LE 1220 – Human Relat.-Career Dev(SS,HR) **3 cr**

Creative, traditional job search methods and human relation skills to find and keep gainful employment. Topics include self-assessment, goal setting, career review, job sources, written goals, appearance, interviewing, and diversity. Course may be taught with a Service Learning component.

LE 1240 – Tutor Certification **1 cr**

Basic principles of tutoring through supervised practice tutoring. Students learn to become effective and certified tutors.

LE 1310 – Mind, Mach., Consciousness(ID) 3 cr
Explore artificial intelligence (AI) from historical, philosophical, scientific views within an educational framework. Discusses what life is, current and future projections. Possible rights of AI entity and Implication of AI in all facets of life.

LE 1350 – Values and Self-Image (ID) 3 cr
Explore philosophical, psychological, educational theory on values and self-image. Students will assess values at beginning and end with changes noted. Latest techniques in use of affirmation, goal setting. Personal philosophy. Course may be taught with a Service Learning component.

LE 1360 – Opening Diverse Doors (ID,DV) 3 cr
Course investigates needed critical reading/thinking skills in relation to philosophical, sociological, psychological and education values in areas of diversity consciousness (skills, awareness and understanding of diversity) in America.

LE 1900 – Special Studies 1-3 cr
Seminars and workshops to find appropriate field of study, develop personal skills and attitudes, explore college services, self-exploration/career planning, job hunting, personal development.

LE 2920 – Developing The Civically Engaged Leader 2 cr
This interdisciplinary Service Learning course will focus on personal leadership development, civic engagement, social justice, and personal management skills including communication, motivation, problem solving, and conflict resolution with an emphasis on personal growth.

LE 2950 – Developing Strengths Based Leadership 2 cr
Students will explore the world of leadership through experiential interactive exercises and activities plus assignments designed to further your knowledge of leadership. Skills learned in this course will center on communication, organizational behavior, problem solving, delegating, and goal setting as they apply to various aspects of your daily life.

LINE 1110 – Lineman Apprentice 1A 5 cr
This course is for lineman apprentices. It introduces transmission and distribution systems. Students will learn about safety, climbing, overhead distribution systems, tools and service installation.

LINE 1120 – Lineman Apprentice 1B 5 cr
Prereq: LINE 1110 or departmental approval. This course is for lineman apprentices. It introduces metering, rigging, pole work, care and testing of equipment, distribution. Students will learn about safety, overhead maintenance, pole framing and guying.

LINE 1210 – Lineman Apprentice 2A **5 cr**

Prereq: LINE 1120 or departmental approval. This course is for lineman apprentices. It introduces line equipment, tree trimming, hydraulic derricks and digging equipment. Students will learn about DC fundamentals and pole top equipment and replacement.

LINE 1220 – Lineman Apprentice 2B **5 cr**

Prereq: LINE 1210 or departmental approval. This course is for lineman apprentices. It introduces line equipment, transformers, safety and distribution. Students will learn about underground, hydraulics systems, AC fundamentals and hand tools.

LINE 2310 – Lineman Apprentice 3A **5 cr**

Prereq: LINE 1220 or departmental approval. This course is for lineman apprentices. It introduces compressors, transformer connections, underground conduit and street lighting systems. Students learn about distribution repair with gloves and hot sticks, and cable installation.

LINE 2320 – Lineman Apprentice 3B **5 cr**

Prereq: LINE 2310 or departmental approval. This course is for lineman apprentices. It introduces troubleshooting overhead and transformers, safety and power quality. Students will learn high-voltage AC power, switchgear and URD transformers

LINE 2410 – Lineman Apprentice 4A **5 cr**

Prereq: LINE 2320 or departmental approval. This course is for lineman apprentices. It introduces reading electrical diagrams, transformers, splicing and meters. Students will learn about cable termination, troubleshooting, safety and fault location.

LINE 2420 – Lineman Apprentice 4B **5 cr**

Prereq: LINE 2410 or departmental approval. This course is for lineman apprentices. It introduces voltage regulators, customer relations, cable fault locations and transformers. Students will learn troubleshooting, circuit breakers, capacitors and reactors.

MA 1100 – Medical Terminology **3 cr**

Course uses videos, supplemented lecture and covers over 350 medical word roots, suffixes, prefixes. Emphasis placed on pronunciation, spelling, proper usage of medical terminology. Medical abbreviations are also introduced.

MA 1200 – Medical Office Management **2 cr**

Prereq: Proof of word processing proficiency. Medical procedures including: billing, schedules, mail, telephones, office machines, computer hardware and software. Law and ethics, charting and other procedures as pertaining to the medical office.

MA 1210 – Practical Medical Office Mgt. 2 cr

Prereq: Proof of word processing proficiency. Recommended coreq: MA 1200. Practical application of procedures taught in MA 1200. Students must type 30 wpm and demonstrate proficiency, passing all competencies outlined in the course with an 80% (B-) grade or better by the end of the semester before advancing in the program.

MA 1240 – Medical Office Communication (note: This will cross list to MA 2240, they are the same class) 2 cr

Prereq: MA 1100, MA 1200 and MA 1210. Verbal and nonverbal communication between physician, staff, patients, and support personnel. Office correspondence using WP software, including resume, cover letters for externship, interpersonal skills, and the ADA.

MA 1290 – Introduction to Electronic Medical Records 2 cr

Prereq: Admission to program. Introduction to Electronic Medical/ Health Records (EMR/EHR). Students will be introduced to EHR elements, guidelines, protocols and care plans. They will also be introduced to templates, reports, medical database analysis and clinical alerts.

MA 1300 – Clinical Pharmacology 3 cr

Pre-Req: Admission to MA Program and MA 1520 w/C grade or better. Material in this on-line course will familiarize students with basic principles of pharmacology including the five steps in the fate of a drug, the five Controlled Drug Schedules, the correct method of writing a prescription and charting drug orders, and appropriate abbreviations used charting medications in a patient's chart.

MA 1310 – Medical Math & Admin Meds 2 cr

Pre-Req: Admission to MA program and MA 1520 w/C grade or better. Course teaches the students practical applications of the administration of medications, collection of blood specimens by capillary and phlebotomy methods, and introduces the students to the administration of IV fluids. Students will also become competent in calculation of medication dose.

MA 1400 – Introduction to Patient Care 2 cr

Prereq: Acceptance into MA program. Coreq: MA 1410. Course will focus on application of clinical patient care including: asepsis, assessing patient vital signs, assisting provider in exams, emergency preparedness, medical office emergencies and nutrition for lifelong wellness.

MA 1410 – Practical Introduction to Patient Care 2 cr

Prereq: Acceptance into MA program. Coreq: MA 1400. Course will focus on application of clinical patient care including: asepsis, assessing patient vital signs, assisting provider in exams, emergency preparedness, medical office emergencies and nutrition for lifelong wellness.

MA 1420 – Clinical Pathology I **3 cr**

Prereq: Admission to program. Structure and Function of body systems includes cell structure and chemistry and structures of skin, musculoskeletal, and nervous systems. Pathology is introduced to prepare the student for medical office triage and appropriate treatment for related disorders.

MA 1520 – Clinical Pathology II **3 cr**

Pre-Req: Admission to the program and MA 1420 w/C grade or better. Lecture course will discuss structure and function of the senses, endocrine system, cardiovascular system, renal system, pulmonary system, gastrointestinal system, urinary system, reproductive system, and human development and related system pathologies including diagnosis, treatment, and prognosis of the disorders or diseases.

MA 1600 – Intermediate Patient Care **2 cr**

Preq: Admission to program. Coreq: MA 1610. Course will focus on the practical routine application areas of clinical patient care including the units: ophthalmology, otolaryngology, neurology, pulmonology, gastroenterology, endocrinology, urinology, gynecology, obstetrics, pediatrics and geriatric medicine.

MA 1610 – Intermediate Patient Care **4 cr**

Prereq: Acceptance into the MA program. Coreq: MA 1600. Course applies practical skills taught in MA 1600. Competencies include assisting with routine/specialty exams in Ears, Nose and Throat (ENT), Ortho, Neuro, Urology, Respiratory, Pediatrics, OB/GYN, and Geriatrics.

MA 1700 – Introduction to Limited Radiology **2 cr**

Prereq: Instructor's approval. Coreq: MA 1710. Theory and principles of basic x-ray exams in medical office. It includes physics as it pertains to x-rays, use and care of the machine, proper mAs, kVp and time, image production and darkroom procedures, patient protection, discussion of licensing requirements as it applies to the Medical Assistant.

MA 1710 – Practical Application of Limited Radiology **1 cr**

Prereq: MA 1420 & MA 1520 w/C grade or better, or instructor approval. Coreq: MA 1700. Practical application of principles and theories taught in MA 1700, including patient positioning for chest x-ray and extremities x-rays using the phantom. Practical component of the knowledge, skills and abilities to pass the Limited Scope of Practice in Radiography exam and receive state licensure as a limited x-ray machine operator (LRPT).

MA 2240 – Medical Office Communication (note: This will cross list to MA 1240, they are the same class) **2 cr**

Prereq: MA 1100, MA 1200 and MA 1210. Verbal and nonverbal communication between physician, staff, patients, and support personnel. Office correspondence using WP software, including resume, cover letters for externship, interpersonal skills, and the ADA.

MA 2300 – Medical Coding Procedures **3 cr**

Prereq: MA 1100 and MA 1420. Introduction and practice with current procedural terminology (CPT) and international classification of disease (ICD) coding procedures, HCPS for optimal reimbursements, as practiced in the medical setting.

MA 2310 – Advanced Medical Coding **4 cr**

Prereq: MA 1100, MA 1420, MA 2300, MA 2420 or instructor approval with industry requirements met. This elective course is intended for students who have completed MA 2300 or have met industry standards as a medical coder/biller to take the AHIMA or AAPC certification examinations. This is achieved by advanced classifications of disease (ICD-9) coding procedures, HCPCS for optimal reimbursements as utilized in such medical settings as hospitals, outpatient clinics and physician offices.

MA 2420 – Clinical Pathology II (note: This will cross list to MA 1520, they are the same class) 3 cr

Prereq: MA 1420. Structure and Function of the endocrine, cardiovascular, renal, pulmonary, GI, and reproductive body systems. Pathology is introduced to prepare the student for medical office triage and appropriate treatment of related disorders seen in a clinical setting.

MA 2540 – Practical Radiology **2 cr**

Prereq: MA 1420, MA 1600 and instructor approval. Theory and principals of basics of x-ray exams in the office. It includes physics as it pertains to x-ray, use and care of machine, proper mass KvP and time, darkroom procedures and patient protection, discussion of licensing requirements.

MA 2550 – Practical Application-Radiolo. **3 cr**

Prereq: MA 1420, MA 1600 and instructor approval. Recommended coreq: MA 2540. Practical application of principles and theories taught in MA 2540, including patient positioning for chest x-ray, extremities, pelvis and x-rays using the phantom.

MA 2600 – Advanced Patient Care **2 cr**

Prereq: Admission to program. Coreq: MA 2610. Lectures in this theory course will focus on advanced medical assisting skills such as assisting in dermatology, instrument identification, medical office triage, and interpreting a twelve-lead. Discussion will include lab safety and creating a safe work environment, medical office microbiology, normal values for basic lab tests, and urinalysis.

MA 2610 – Practical Adv. Patient Care **4 cr**

Prereq: MA 1310. Coreq: MA 2600. Application of practical skills taught in MA 2600. Competencies include recording ECG, assisting with office surgeries, ortho, maintain a sterile field, laboratory testing of blood, urine and body fluids, applying nutrition principles.

MA 2700 – Application of Limited Radiology **2 cr**

Prereq: Acceptance into the MA program and MA 1700/1710 and/or instuctor approval. Coreq: MA 2710. Application of principles and theories taught in MA 2710, including patient positioning for chest x-ray, spine, skull and extremities x-rays using the phantom.

MA 2710 – Application of Limited Radiology **2 cr**

Prereq: Acceptance into the MA program and MA 1700/1710 and/or instuctors approval. Coreq: MA 2700. Application of principles and theories taught in MA 2700, including patient positioning for chest x-ray, spine, skull and extremities x-rays using the phantom.

MA 2810 – Medical Assistant Practicum **4 cr**

Prereq: Successful completion of all courses in the Health Sciences Medical Assistant Program meeting the minimum required grade before placement in practicum site. After completing the Medical Assistant Program, the student will be required to complete a 200-hour unpaid Practicum. Students will meet with the Practicum Coordinator for preparation and assignments for their clinical site. All clinical sites must have an Affiliation Agreement with the College.

MA 2990 – Spcial Studies in Radiology **2-6 cr**

Prereq: MA 2540, MA 2550 or instructor approval. Study of anatomy, proper patient positioning, setting tech factors and evaluation of radiographs of the cervical, thoracic and lumbar spine, skulls and paranasal cavities. Credits: 1 for skull; 1 for spines; 1 for paranasal sinuses.

MATH 0001 – College Preparatory Mathematics 1 **4 cr**

Prereq: RDG 0900 or appropriate Accuplacer score and EDU 1020 (either may be taken concurrently). MATH 0001 is a course in which students must successfully complete at least 4 of 12 modules. The 12 modules cover the same material presently included in MATH 0900 - 0990. Upon successful completion of all 12 modules, students will be eligible to take MATH 1010. Because this course is delivered on an individual basis using computer software, students will be able to complete as many modules as they can in a given term. Students may also test out of any module with pretest mastery.

MATH 0002 – College Preparatory Mathematics 2 **4 cr**

Prereq: MATH 0001 & EDU 1020. MATH 0002 is a continuation of Math 0001. Students start where they ended in Math 0001 and must successfully complete up through at least module 8 of the 12 modules. The modules cover the same material presently included in MATH 0900 - 0990. Upon successful completion of all 12 modules and a final exam, students will be eligible to take MATH 1010. Because this course is delivered on an individual basis using computer software, students are able to complete as many modules as they can in a given term. Students may also test out of any module with pretest mastery.

MATH 0003 – College Preparatory Mathematics 3 **4 cr**

Prereq: MATH 0002 & EDU 1020. MATH 0003 is a continuation of Math 0002. Students start where they ended in Math 0002 and must successfully complete all remaining 12 modules. The modules cover the same material presently included in MATH 0900 - 0990. Upon successful completion of all 12 modules and a final exam, students will be eligible to take MATH 1010. Students may test out of any module with pretest mastery.

MATH 0900 – College Arithmetic **3 cr**

Prereq: RDG 0900 (may be taken concurrently) or appropriate Accuplacer score. This course will focus on operations with whole numbers, integers, and fractions and will include learning essentials such as time management, test taking skills, note taking, use of student resources and student responsibility.

MATH 0915 – Fractions Workshop **1 cr**

This course is designed to be a refresher course in basic operations with fractions, including application problems and signed numbers. This course can be taken concurrently with Math 0920, Math 0950, and Math 0990.

MATH 0920 – Developmental Math **6 cr**

Prereq: RDG 0900 (may be taken concurrently) or appropriate Accuplacer score. Includes whole numbers, fractions, decimals, proportions, percents and basic geometry. It also includes integers, linear equations, polynomials, and graphing. Computer assisted instruction is available.

MATH 0925 – Pre-Algebra Workshop **1 cr**

Recommended Coreq: Math 0920. This course is a companion course to MATH 0920. This course focuses on basic operations with whole numbers, fractions and decimals, geometric formulas, ratio, proportions, and percents, as well as signed numbers, solving equations, polynomials and other algebraic concepts.

MATH 0950 – Pre-Algebra **3 cr**

Prereq: RDG 0900 w/B grade or better or appropriate Accuplacer score AND within the last year MATH 0900 w/B grade or better or appropriate Accuplacer score. This course includes basic math concepts of whole numbers, fractions, decimals, proportions, percents and basic geometry. It also includes pre-algebra topics on integers, linear equations, polynomials, and graphing.

MATH 0955 – Pre-Algebra Workshop **1 cr**

Recommended Coreq: Math 0950. This course is a companion course to MATH 0950.This course focuses on basic operations with whole numbers, fractions and decimals, geometric formulas, ratio, proportions, and percents, as well as signed numbers, solving equations, polynomials and other algebraic concepts.

MATH 0990 – Elementary Algebra **4 cr**

Prereq: RDG 0900 w/B grade or better or appropriate Accuplacer Score AND within the last year MATH 0950 or MATH 0920 w/C grade or better, or appropriate Accuplacer score. Includes linear equations,

systems, polynomials, factoring, graphing, and inequalities. It also includes rational and radical expressions and equations. Computer-assisted instruction is available.

MATH 0995 – Elementary Algebra Workshop **1 cr**
Recommended Coreq: MATH 0990.This course is a companion course to MATH 0990. It provides a review of topics in MATH 0990 and additional practice on problem solving through collaborative learning.

MATH 1010 – Intermediate Algebra (QS) **4 cr**
Prereq: RDG 0900 w/C grade or better or appropriate Accuplacer score AND within the last year MATH 0990 w/C grade or better or appropriate Accuplacer score. Linear and quadratic equations; inequities; polynomials; rational expressions; radicals; negative and rational exponents; complex numbers; linear systems; introduction to functions; logarithms; and exponential functions.

MATH 1015 – Intermediate Algebra Workshop **1 cr**
Recommended Coreq: MATH 1010. This is a companion course to MATH 1010. It provides a review of topics in MATH 1010 and additional practice on problem solving through collaborative learning.

MATH 1030 – Quantitative Reasoning (QL) **3 cr**
Prereq: RDG 0990 w/C grade or better or appropriate Accuplacer score AND within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score. The course focuses on the development of analytical thinking through the application of math to real-life problems. Topics include modeling, logic, financial math, probability, statistics, and geometry.

MATH 1040 – Intro to Statistics (QL) **3 cr**
Prereq: RDG 0990; within the last year, MATH 1010 w/C grade or better, or appropriate Accuplacer score. This course satisfies the SLCC Quantitatice Literacy (QL) requirement. This course focuses on descriptive and inferential statistical methods. Emphasis on sampling design; descriptive statistics; linear regression and correlation; probability; sampling distributions; hypothesis testing and confidence intervals.

MATH 1048 – Technical Math I **3 cr**
Prereq: Within the last year, MATH 1010 w/C grade or better, or appropriate Accuplacer score.This course covers scientific notation; systems of units; equations; linear systems; quadratic, polynomial, rational, and exponential functions; logarithms; roots and radicals; overview of statistics; includes major-specific curriculum modules.

MATH 1050 – College Algebra (QL) **4 cr**
Prereq: RDG 0990 w/C grade or better or appropriate Accuplacer score AND within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score. Covers polynomial, rational, exponential, and logarithmic functions and graphs; complex roots of polynomial functions; matrices; partial fractions; conics; sequences and series; and the binomial theorem. Includes real-world application problems and

graphing technology. Satisfies quantitative literacy requirement and prepares students for trigonometry and calculus.

MATH 1055 – College Algebra Workshop **1 cr**

Optional Coreq: MATH 1050. This is a companion course to MATH 1050. It provides a review of topics in MATH 1050 and additional practice on problem solving through collaborative learning. STEM focused activities maybe incorporated into the course.

MATH 1058 – Technical Math II **3 cr**

Prereq: Within the last year, MATH 1048 w/C grade or better, or appropriate Accuplacer score. This course covers angles; right triangle trigonometry; amplitude, period, phase shift; identities; trig equations and inverse trig functions; oblique triangles; polar coordinates; vectors; complex numbers; conics; includes major-specific modules.

MATH 1060 – Trigonometry (QL) **3 cr**

Prereq: RDG 0990 w C/grade or better or appropriate Accuplacer score AND within the last year MATH 1050 w/C grade or better or appropriate Accuplacer score. Trigonometric functions and their graphs developed using circular and triangular methods including inverses; polar coordinates; and an introduction to vectors.

MATH 1080 – Precalculus (QL) **5 cr**

Prereq: RDG 0990 w/C grade or better or appropriate Accuplacer score AND within the last year an appropriate Mathematics Accuplacer score or departmental approval. Covers the main concepts of college algebra and trigonometry. Topics include polynomial, rational, exponential, logarithmic, inverse and trigonometric functions, graphs and equations; matrices and determinants; sequences and series; solutions of triangles; conics; and polar coordinates. Satisfies the prerequisite for calculus.

MATH 1090 – College Algebra-Business (QL) **3 cr**

Prereq: RDG 0990 w/C grade or better or appropriate Accuplacer score AND within the last year MATH 1010 w/C grade or better or appropriate Accuplacer score. Topics include: graphs, linear, quadratic, logarithmic, and exponential functions; matrices; systems of equations and inequalities; leontieff models; compound interest; geometric and arithmetic series, loans and annuities.

MATH 1100 – A Brief Course in Calculus **3 cr**

Prereq: Within the past year, MATH 1050 or MATH 1080 or MATH 1090 w/C grade or better or appropriate Accuplacer score. A first course in differential and integral calculus designed primarily for students in biological sciences, social sciences, education, and humanities. Maximization and minimization of functions, marginal analysis and the optimization of constrained functions. Not for students who have completed MATH 1210.

MATH 1210 – Calculus I (QL) **4 cr**

Prereq: Within the last year, MATH 1050 and MATH 1060 w/C grade or better; OR MATH 1080 w/C grade or better, OR appropriate Accuplacer score. Calculus 1 introduces the following topics: limits, derivatives of algebraic and transcendental functions, applications of differentiation, integration, the Fundamental Theorem of Calculus, the technique of substitution, and finding the area between curves.

MATH 1220 – Calculus II **4 cr**

Prereq: Within the last year, MATH 1210 w/C grade or better. This course is a continuation of the study of Calculus. Topics covered include applications and techniques of integration; parametric equations and polar coordinates; Taylor and power series, and 3-dimensional analytical geometry and vectors. This course is required for an AS in Mathematics.

MATH 2000 – Math CO-OP **1-2 cr**

Standard CO-OP. Prereq: Sophomore standing with GPA of 2.0. This course is for study-related employment and approval of Director of Cooperative Education

MATH 2010 – Math for Elem. Teachers I **3 cr**

Prereq: Within the last year, MATH 1050 w/C grade or better. This course covers topics include problem-solving techniques; sects and logic; number theory including properties and operations; mental arithmetic; estimation; and topics in algebra. Technology projects, and manipulatives are utilized in this course.

MATH 2020 – Math for Elem. Teachers II **3 cr**

Prereq: Within the last year, MATH 2010 w/C grade or better. This course is a continuation of Math 2010. The topics include probability; statistics; measurement; two and three-dimensional geometry including tessellations, Euclidian constructions, and transformations.

MATH 2040 – Statistics for Applied Science **4 cr**

Prereq: Within the last year, MATH 1050 w/C grade or better, or appropriate Accuplacer score. This course includes descriptive and inferential statistical methods. Topics include sampling design; descriptive statistics; probability; mathematical expectation; discrete and continuous probability distributions; sampling distributions; estimation and confidence intervals; hypothesis testing; two-sample inference, inference on categorical data; analysis of variance (ANOVA); linear regression and correlation; and regression analysis. This course or Math 2200 is required for an AS in Mathematics.

MATH 2200 – Introduction To Discrete Mathematics **3 cr**

Prereq: Within the last year, MATH 1220 w/C grade or better or instructor permission. This course is an introduction to proofs course ideal for anyone majoring or minoring in mathematics or wants a stronger foundation in mathematics. This course covers the fundamentals of logic, set theory, order, relations, functions. It includes elementary number theory, modular arithmetic, combinatorics; counting permutations, generating functions, matrix operations,basic algebraic structures; groups, rings, discrete probability. It also includes an introduction to graphy theory, trees, search optimization problems and Boolean algebra. This course or Math 2040 is required for an AS in Mathematics.

MATH 2210 – Multivariate Calculus **3 cr**

Prereq: Within the last year, MATH 1220 w/C grade or better. This course is a continuation of the study of Calculus. Topics covered include partial derivatives, multiple integrals, curves and surfaces; vector calculus including Green's and Stoke's theorems. This course is required for an AS in Mathematics.

MATH 2250 – Differential Eq/Linear Algebra **4 cr**

Prereq: Within the last year, MATH 1220 w/C grade or better. This course is an introcution to ordinary differential equations and linear algebra with applications to mechanics, electrical circuits, and populations. Topics included in this course are qualitative analysis, numerical methods, Laplace transforms, and systems of linear equations.

MATH 2270 – Linear Algebra **4 cr**

Prereq: Within the last year, MATH 1220 w/C grade or better. The topics studied in this course are the theory and application of matrices, linear systems, determinants, inverses, vector spaces, linear independence, linear transformations, eigenvalues and eigenvectors, diagonalization, and least squares approximation. This course is required for an AS in Mathematics.

MATH 2280 – Differential Equations **4 cr**

Prereq: Within the last year, MATH 2270 w/C grade or better. The topics studied in this course are linear and nonlinear differential equations, systems of equations, phase-plane analysis, initial and boundary value problems, bifurcation analysis, Laplace Transforms, series solutions and numerical methods. This course is required for an AS in Mathematics.

MATH 2900 – Spec Topics **1-3 cr**

Special topics in Mathematics.

MCCT 1500 – Manual Machining **2 cr**

Coreq: MCCT 1510. Basic machine shop theory including operation and performance of lathes and mills.

MCCT 1510 – Manual Machining Lab **1 cr**

Coreq: MCCT 1500. Laboratory application of the manual machine shop principles taught in MCCT 1500 including lathes and mills.

MCCT 1600 – CNC Machine Theory **2 cr**
Coreq: MCCT 1610. Basic CNC machine shop theory including G and M programming, operation, and performance of CNC lathes and mills.

MCCT 1610 – CNC Machining Lab **1 cr**
Coreq: MCCT 1600. Laboratory application of principles taught in MCCT 1600 including programming and operation of CNC lathes and mills.

MCCT 2650 – CAD/CAM **2 cr**
Prereq: EDDT 2540. Recommended Coreq: EDDT 2600. Design using CAD/CAM software. Experience in the engineering/designer role in industry as members of a project design team in collaboration w/machining students. Includes assembly design, documentation, tolerance studies and inspection.

MCCT 2670 – GMA, GCA, GTA Welding **3 cr**
Prereq: WLD 1005. Theory and lab course covering Gas Metal Arc Welding, Flux Core Arc Welding, and Gas Tungsten Arc Welding.

MCCT 2850 – Plastics & Composites CNC/CAM **3 cr**
Prereq: MCCT 1500 and MCCT 1510. Methods for machining organic and metal composites. Machining procedures and the damage introduced into composites. CNC and CAM for production of plastic products and tooling. Concepts also including taser, water-jet, and electro discharge machining.

MCCT 2860 – Plastic/Composite Matis & Prop **3 cr**
Prereq: CHEM 1110 or 1210 and PHYS 2010 or 2210. Covers the most common commercial plastics including their additives, fillers and fibers: includes common physical tests used to determine material characteristics.

MCCT 2870 – Plastic/Composite Design & Mfg **3 cr**
Prereq: EDDT 2600 and MCCT 2860. Design of plastic and composite parts using CAD. Emphasis in design principles related to plastic products. Analysis of functional requirements, structural properties, aesthetic qualities, cost. Experience in product design and material.

MEEN 1050 – Design & Visual Communications **3 cr**
Prereq: MATH 1050 or MATH 1080; and MEEN 2655 (may be taken concurrently). The design process, sketching, three-dimensional visualization and communication, engineering drawing, CAD systems, data presentation and computer graphics are discussed in this class.

MEEN 2000 – Cooperative Education In Mechanical Engineering **1-2 cr**
Prereq: Sophomore standing, minimum 2.0 GPA, and instructor approval. A supervised work experience in a business, industrial or government related to the program major. Credit is awarded for successful completion of specific learning objectives that provide new learning related to the major.

MEEN 2010 – Statics **3 cr**

Prereq: MATH 1210. Recommended prereq: PHYS 2210. Principles of forces and motion, moments and couples; resultant and static equilibrium of general force system; statically equivalent systems, moment of area, centroid, center of mass, gravity and pressure; friction; moment of inertia. Free body method of analysis and principles applied to engineering problems.

MEEN 2020 – Dynamics I **2 cr**

Prereq: MEEN 2010. Recommended prereq: MATH 2210. Position, velocity and acceleration, vector calculus, particle kinematics, kinetics of particles, including Newton's Laws, conservation of momentum and energy, and impact vibratory motion of particles are covered.

MEEN 2060 – Dynamics II **2 cr**

Prereq: MEEN 2020. Recommended prereq: MATH 2250. This course examines Kinetics and Kinematics of rigid bodies in 2-D and 3-D motion. It also covers moving frames, 3-D mass moment of inertia, conservation of momentum, energy, impact and an introduction to vibration analysis of mechanical systems.

MEEN 2140 – Strength of Materials **2 cr**

Prereq: MEEN 2010; MATH 2250 (may be taken concurrently). Recommended coreq: MEEN 2145. Internal forces in members, concept of stress and strain, axial loading, Hookes Law, torsion, pure bending, traverse loading, transformations of stress and strain, pressure vessels, beam deflection and column bending are discussed.

MEEN 2145 – Testing Of Engineering Materials **1 cr**

Recommended coreq: MEEN 2140. This is an introductory laboratory in mechanical behavior of materials using basic testing methods and instrumentation, column bending, tension and compression of metals, concrete failure, Charpys Impact, and creep tests.

MEEN 2300 – Thermodynamics for Mechanical Engineers **3 cr**

Prereq: CHEM 1210 and MATH 1220. Recommended prereq: PHYS 2210. First and second law of thermodynamics, internal energy, enthalpy, entropy and open and closed systems are covered. Engineering cycles including Carnot, Otto, Diesel, Brayton and Refrigeration are introduced. Integrated lab/hands-on activities.

MEEN 2450 – Numerical Methods **3 cr**

Prereq: ENGR 1030 or 1040; and MATH 2250. Recommended Prereq: MATH 2210. Numerical techniques used in engineering computing, including: convergence, error accumulation, roots, solution of linear and nonlinear equations, numerical integration and differentiation, and solutions to differential equations.

MEEN 2650 – Manufacturing Engineering & Technology **4 cr**
Prereq: MEEN 2010. Structures and properties of ferrous and nonferrous materials casting, forging, welding, heat treating, machining, grinding, theory of metal cutting will be covered. Hands-on introduction to machine tools.

MEEN 2655 – Engineering Manufacturing Lab **1 cr**
Prereq: MEEN 1050 (may be taken concurrently). The manufacturing processes used to produce parts designed by mechanical engineers are introduced, including; casting, forging, molding, forming, grinding, manual and CNC machining. The focus is not to develop skills in the manufacturing arena, but to provide an understanding of the scope as well as the limitations of the manufacturing process, through a hands-on introduction.

MEEN 2900 – Special Topics In Mechanical Engineering **1-3 cr**
Special Topics reflecting items of current interest in Mechanical Engineering.

MET 1010 – Intro to Meteorology (PS) **3 cr**
Meteorology introduces the characteristics and dynamics of the atmosphere and their daily application. Nutrition, clothing, shelter, economics, and recreational activities are representative samplings of human activities affected by climate.

METE 1110 – Meter Apprentice 1A **5 cr**
This course is for meter apprentices. It introduces electrical principles and principles of magnetism AC concepts. Students will learn about atomic structure, electrical qualities, Ohm's Law, resistors, parallel circuits, trigonometry and alternating current.

METE 1120 – Meter Apprentice 1B **5 cr**
Prereq: METE 1110 or departmental approval. This course is for meter apprentices. Students will learn about math for metering, safety, watt hour meter principles and wire tables.

METE 1210 – Meter Apprentice 2A **5 cr**
Prereq: METE 1120 or departmental approval. This course is for meter apprentices. Students will learn about meter watt hour constants, register ratios and formulas. Also covers principles of accuracy testing, meter testing and calibration.

METE 1220 – Meter Apprentice 2B **5 cr**
Prereq: METE 1210 or departmental approval. Students will learn about single phase meter application and installation; polyphase power systems and meter application; meter testing and calibration; instrument transformers, testing single phase transformers; and Blondel's Theorem.

METE 2310 – Meter Apprentice 3A **5 cr**

Prereq: METE 1220 or departmental approval. This course is for meter apprentices. Students will learn about self contained polyphase meter testing and polyphase transformer related application. The course also covers demand metering concepts.

METE 2320 – Meter Apprentice 3B **5 cr**

Prereq: METE 2310 or departmental approval. This course is for meter apprentices. Students will learn about testing and calibrating demand meters, meter mounting devices and test switches. The course also covers reactive metering and reactive meter testing.

METE 2410 – Meter Apprentice 4A **5 cr**

Prereq: METE 2320 or departmental approval. This course is for meter apprentices. Students will learn about totalizing meters; installation checks and inspections; and customer relations. The course also covers solid state meters and associated devices.

METE 2420 – Meter Apprentice 4B **5 cr**

Prereq: METE 2410 or departmental approval. This course is for meter apprentices. Students will learn about energy diversion, troubleshooting techniques and pulse initiators and recorders. The course also covers electronic metering, register programming and computers.

MGT 1020 – Distribution Systems **3 cr**

Principles of transportation systems, understanding the economic, political and social functions of transportation in the economy. Inflow, outflow, warehousing and their role in the physical distribution process is taught.

MGT 1100 – Small Business Management **3 cr**

Meets needs of ATE programs in Small Business Management. Educates students in Vocational programs about small business management/ownership fundamentals. Curriculum learning will be industry specific.

MGT 1600 – Management Essentials **3 cr**

Recommended Prereq: BUS 1050. This course is comprised of basic managerial skills to include, but not limited to: planning, organizing, leading, and controlling. Topics covered include conflict management, stress management, decision-making, international business, Total Quality Management (TQM), team building, and communication.

MGT 2000 – Business Management CO-OP Ed **1-3 cr**

Prereq: Sophomore standing, 2.0 GPA and related employment. Supervised work experience in business, industrial or government environment related to program major. Credit for specific learning objectives that provide new learning that is related to program major.

MGT 2020 – Entrepreneurship **3 cr**

Prereq: MKTG 1030, and ACCT 1110 or ACCT 2010. Recommended prereq: BUS 1050. This course is an introduction to starting your own small business. Topics include business models, strategic planning, SWOT analysis, capitalization, borrowing, marketing, purchasing, intellectual property, organization and location, etc. Students will complete a business plan with strategic, market, human resource, and financial components.

MGT 2040 – Business Statistics I **4 cr**

Prereq: MATH 1010 (or appropriate Accuplacer score) or FIN 1380; and CIS 1020 or challenge exam. Collection, analysis, and interpretation of business and economic data. Includes measures of location and dispersion, estimation and hypothesis testing, ANOVA, contingency tables, correlation, and regression. Computer for projects/cases.

MGT 2050 – Legal Environment of Business **3 cr**

Recommended Prereq: BUS 1050. Principles of business law, including torts, product liability, contracts, intellectual property, banking, agency, commercial law, etc. Common legal problems encountered in business are explored in assigned court case analysis.

MGT 2070 – Human Resource Management **3 cr**

Recommended prereq: BUS 1050. This course emphasizes the interdependencies of an organization's people processes from recruitment, selection, evaluation, and compensation, to separation. Specific include job analysis, the employment process, performance appraisal systems, compensation, benefits, training, team development, decision making, and organizational behavior.

MGT 2080 – Employment Law **3 cr**

Recommended Prereq: BUS 1050. Significant human resource laws, Supreme Court decisions and executive orders affecting management of human issues within the organization are examined. Legislation in areas of equal employment opportunity, hiring, firing, compensation, discrimination, disabled applicants & employees, immigration, harrassment, and management practices will be studied.

MGT 2350 – Business Statistics II **3 cr**

Prereq: MGT 2040 and MATH 1050 or MATH 1090. Analytical methods for decision making in business. Topics include hypothesis testing, ANOVA, design of experiments, goodness-of-fit, multiple-regression, statistical process control, and Six-Sigma as a unifying framework. Computer cases are essential part of this course.

MGT 2500 – Strategic Management Principles **3 cr**

Prereq: BUS 2200 and MGT 2070. Strategic management theories and functions explored in greater depth. Discussion focused on theory and practicality of change in business today. Implementation and consequences of strategic management decisions and communication emphasized.

MGT 2600 – International Business **3 cr**

Recommended Prereq: ECON 2020. This course focuses on international business from a practitioner's perspective. Emphasis is on globalization, exporting, and importing, opportunity assessment techniques, Foreign Direct Invenstment & financing, accounting, logistics, marketing, legal issues, human resources, and socio-cultural differences.

MGT 2700 – Production/Operations Mgt **3 cr**

Prereq: MATH 1050 OR MATH 1090; MGT 2040 & 2350. This course is intended as an introduction to the field of production and operations management. Deals with the management of an organization's productive resources or its production system; the strategic, operating, and control decisions required to create products and services; and associated computer applications and related models.

MGT 2710 – Quality Control & Six Sigma **3 cr**

Prereq: MGT 2040 or a course in Statistics. Due to recent globalization and increasing customer quality requirements, the need for high quality/ low cost products and services is critical to survival in today's business environment. The course covers the Six Sigma quality concepts including DMAIC process., GAGE R&R, capability analysis, control charts, etc.

MGT 2720 – Supply Chain Design & Mgmt. **3 cr**

Prereq: MGT 2700. Focus is on the design, analysis and management of supply chain networks that business entities use to acquire, produce, and deliver goods and services globally; and on decision support systems as the connector of supply chain integration.

MGT 2730 – Lean Production **3 cr**

Prereq: MGT 2700 and MGT 2710. Focus is on the House of Lean as a model to identify and eliminate waste from business processes. Topics include seven types of waste, waste elimination, value stream mapping, cycle time reduction, and the relationship between lean production, total quality and Six Sigma, etc.

MGT 2740 – Logistics & E-Business **3 cr**

Prereq: MGT 2700 and MGT 2720. Students develop an understanding of concepts, methods and design of global supply chain networks. Covers the perspectives of global competition, global sourcing, global service issues, and E-Business as it relates to globalization.

MGT 2950 – Entrepreneurship Forum **1 cr**

Speakers selected from successful business owners across the Wasatch Front will share experiences in business. Students are given the benefit of wisdom acquired through the school of hard knocks.

MGT 2990 – Current Topics in Management **1-3 cr**
Prereq: Variable, contact department. Course will vary semester to semester; will present a forum where students will be introduced to topics of current interest and worth in the field of management.

MGT 2999 – Current Topics **1-3 cr**
Prereq: Variable, contact department. Topics include Production/Operations Planning and Control, Project Management, Inventory Management, Economic Analysis, Work Design/ Measurement, Management of Automated Manufacturing Systems, and Introduction to Enterprise Resource Planning (ERP).

MKTG 1010 – Customer Service (HR) **2 cr**
This course studies the basic service skills in business. It looks at the management of conflict, stress, professionalism, time management, and telephone usage. It deals with internal and external customer service concepts. Course may be taught with a Service Learning component.

MKTG 1030 – Introduction To Marketing **3 cr**
Students receive a basic understanding of marketing principles and business-to-consumer relationships that influence business marketing strategy. Course may be taught with a Service Learning component.

MKTG 1050 – Consumerism (ID) **3 cr**
This course explores marketing from the consumers' perspective. Students will learn to critically evaluate messages communicated through marketing media and determine the impact on individual behavior and society as a whole.

MKTG 1070 – Promotion **3 cr**
Concentration on the promotional mix of advertising, publicity, personal selling and sales promotion. Creativity, planning, and budgeting skills are established through development of a promotional campaign.

MKTG 1300 – Business Presentations **2 cr**
This course explores visual and oral communication methods which focus on professional presentation skills and their application to the field of business, while offering a variety of presentation methods.

MKTG 1480 – Sales **3 cr**
Emphasis is placed on pre-approach, needs, benefits, objections and closes. Students experience basic techniques through participation in a series of simulated sales calls.

MKTG 1900 – Special Projects (DECA) 2 cr
Students apply business techniques and strategies to a variety of projects and activities associated with the Collegiate DECA organiztion. Four basic objectives of the course are to increase skills in: vocational understanding, leadership development, civic consciousness and social intelligence. Course may be taught with a Service Learning component.

MKTG 1910 – Event Marketing 3 cr
This course focuses on planning and implementing events such as trade shows, conferences and large promotions. A group student project will bring community members on campus for a one-day event.

MKTG 1960 – Professionalism in Bus. (HR) 3 cr
This course provides a study of interpersonal and business survival skills including human relations, communication, motivation, self-disclosure, team building, coping with change, and much more. Course may be taught with a Service Learning component.

MKTG 2000 – Marketing CO-OP Education 1-3 cr
Prereq: Sophomore status and instructor approval. Students use in-class and on-the-job training for college credit and a regular salary. This is program-related work in the major field. Credit is awarded for completion of specific learning objectives in the program major.

MKTG 2100 – Marketing Info Management 3 cr
Prereq: MKTG 1030. Students learn the methods of gathering data to make marketing decisions, using various tools to develop questionnaires, set up focus groups, and analyze data for marketing decision-making.

MKTG 2350 – Retail Management 3 cr
Prereq: MKTG 1030, may be taken concurrently. Students research and apply retail concepts of merchandise management, assortment, pricing, visuals,etc. Planning, distribution support functions, selling, advertising and promotion in business to business marketing and regualr retail business operations.

MKTG 2400 – International Marketing 3 cr
Prereq: MKTG 1030 and ECON 2020. Students learn the unique issues facing marketing professionals doing business in the global marketplace. Students develop strategies for dealing with political, economic, cultural and language differences encountered in international marketing.

MKTG 2500 – Principles of Marketing 3 cr
Prereq: MKTG 1070, MKTG 2350 and MKTG 2100. This capstone course is a synthesis of marketing theory, practical application of marketing techniques, strategic planning, and marketing plan management designed for a business client.

MKTG 2810 – e-Commerce Design /Implement **3 cr**
Prereq: MKTG 1030 and MKTG 1480 or both concurrently. Students will enhance skills by designing and managing an E-commerce/social media marketing project using skills from sales fundamentals, marketing, accounting, customer service, CIS, and general business management.

MKTG 2990 – Current Topics in Marketing **1-3 cr**
Prereq: Variable, contact department. Students develop special projects related to topics.

MLS 1010 – Introduction to Leadership I **2 cr**
Acquaints students with leadership, management, and life skills. Builds self-confidence through Army adventure training. Introduces students to the Army culture and lifestyle through basic soldier skills.

MLS 1020 – Intro to Leadership II **2 cr**
Continued leadership development and confidence building through practical exercises.

MLS 1060 – Physical Readiness **1 cr**
A concentrated physical training program to prepare students for the rigors of military service.

MLS 2010 – Found. of Leadership I **3 cr**
Prereq: MLS 1020. Development of leadership and management skills through practical exercises, adventure training, and basic military training.

MLS 2020 – Found. of Leadership II **3 cr**
Prereq: MLS 2010. Continued progressive development of leadership and management skills. Implementation of decision-making procedures in a classroom and field environment. Practical application in leadership principles.

MLS 2090 – Ranger Challenge **2 cr**
Physical and military skills training program to prepare students for competition at Fort Hunter-Liggett, CA. Intense physical training and rigorous training schedule.

MLS 2950 – Basic Independent Study **2-3 cr**
A course of study that combines key elements of MLS 1000/2000 level courses. The purpose is to qualify students for advanced course. This course is for students who have missed one semester of MLS 1000/2000 level classes.

MORT 1010 – Intro to Mortuary Science **3 cr**
Introductory course on the history of funeral service including studies of ancient/historical mortuary practices, caskets and burial containers and early anatomists/undertakers and their role in embalming history. Modern funeral service practices and basic embalming procedures will also be discussed.

MORT 1100 – Dynamics Of Grief, Death and Dying **3 cr**
Prereq: MORT 1010. Introduction and analysis of the attitudes towards death, dying and the grieving process, including cultural, religious and historical perspectives, the differing processes for loss, the environmental factors, the legal aspects of death/dying and medical ethics.

MORT 1200 – Microbiological Studies for Mortuary Science **3 cr**
Prereq: MORT 1010; Admission to program: Introduction to the basic principles of microbiology as it relates to working in a mortuary. Emphasis will be on sanitation, disinfection, and public health within the practice of embalming. Personal, professional and community hygiene and sanitation practices are also discussed.

MORT 1300 – Pathology For Funeral Service **2 cr**
Prereq: MORT 1010. Introduction to pathological disease conditions and their affect on various parts of the body. Conditions which affect the embalming or restorative art process will be emphasized.This course will focus on the functions of the human body systems and their realtionship to diseases.

MORT 1400 – Embalming I **3 cr**
Prereq: MORT 1300. Coreq: MORT 1405 and 1600. Introduction to embalming theory, procedures, techniques, and instruments used in the sanitation, preparation, and restoration of the deceased human body. The use of the vascular system will be emphasized.

MORT 1405 – Embalming I Lab **1 cr**
Prereq: MORT 1300. Coreq: MORT 1400 and 1600. Students learn practical application of Embalming lecture content.

MORT 1600 – Thanatochemistry **2 cr**
Prereq: MORT 1300. Coreq: MORT 1400 and 1405. Survey of general, organic, and biochemistry in mortuary science. Chemical principles and precautions involved in sanitation, disinfection, and public health as related to the embalming application. Review of government regulations for embalming chemicals.

MORT 2330 – Funeral Service Psychology and Counseling **3 cr**
Prereq: MORT 1100. Study of the basic principles of psychology and counseling as they relate to Funeral Service. Emphasis will be given to the role of the funeral director within the psychological concepts of grief, mourning, and bereavement.

MORT 2400 – Embalming II **3 cr**
Prereq: MORT 1400. Coreq: MORT 2405. Continuation of Embalming I. Study and case analysis of various embalming methods, and treatment of specific conditions.

MORT 2405 – Embalming II Lab **1 cr**

Prereq: MORT 1405. Coreq: MORT 2400. Practical application of the fundamental principles presented in MORT 2400 - Embalming II.

MORT 2600 – Restorative Art **3 cr**

Prereq: MORT 1400 and 1405. Coreq: MORT 2605. An introduction to facial restoration techniques, including restoration of facial expressions and proportions by proper use of instruments and special materials. Emphasis is placed on major restoration including problem cases which require illusionary corrections, waxes, cosmetics, hair restoration, color matching, and masking of small and extensive discolorations.

MORT 2605 – Restorative Art Lab **1 cr**

Prereq: MORT 1400 and 1405. Coreq: MORT 2600. Practical application of the fundamentals learned in MORT 2600 - Restorative Art.

MORT 2700 – Mortuary Law and Ethics **3 cr**

Prereq: MORT 1100. Business/legal principles affecting mortuary practice are surveyed with specific emphasis on business organizational forms, law of sales, funeral disclosure rules, and the legal duties of a funeral service provider. Funeral service ethics are emphasized.

MORT 2730 – Funeral Home Management and Merchandising **4 cr**

Prereq: MORT 1100. Principles of funeral home management will be introduced including funeral home operations, management functions, current trends and computer applications. Buying/selling, pricing/displaying and features of merchandise will be studied.

MORT 2750 – Funeral Directing **4 cr**

Prereq: MORT 1100. Introduction of various cultural, ethnic and geographic funeral customs. Discussion of death notification, timeframe for pre/at/post need services, transfer of remains, religious, fraternal and military practices, and cremation procedures.

MORT 2770 – National Board Exam Professional Review **2 cr**

Prereq:MORT 2400/2405; 2600/2605. This course prepares students to take the National Board Exam. The course is designed to allow for extensive testing of the student's knowledge, both theoretical and technical. A review of subject areas on the exam will take place. Both sections of the official National Board Exam must be completed to finish the course and for graduation.

MOTO 1111 – Engine Fundamentals & Repair **3 cr**

Coreq: MOTO 1112. A comprehensive program consisting of safety, proper use of shop tools, fasteners, fuels, lubricants and coolants, 2 and 4 stroke engine theory, proper use of reference materials, and physical principles of engine operation.

MOTO 1112 – Engine Fund. & Repair Lab **6 cr**
Coreq: MOTO 1111. Hands-on component of the fundamentals learned in MOTO 1111.

MOTO 1121 – Motorcycle/OPE Electrical **1 cr**
Coreq: MOTO 1122. This course will train technicians in electrical theory and proper diagnosis and repair of chassis harnesses, charging, starting and lighting systems. Students will also be taught trailer wiring.

MOTO 1122 – Motorcycle/OPE Electrical Lab **2 cr**
Coreq: MOTO 1121. Hands-on component of fundamentals learned in MOTO 1121.

MOTO 1131 – M/C & OPE Engine Performance **2 cr**
Coreq: MOTO 1132. A course to teach carburetor, fuel injection and ignition theory, diagnostic, repair and tuning.

MOTO 1132 – M/C & OPE Engine Perform Lab **3 cr**
Coreq: MOTO 1131. Hands-on component of fundamentals learned in MOTO 1131.

MOTO 1141 – M/C & OPE Drive Train/Chassis **2 cr**
Coreq: MOTO 1142. This course is designed to teach technicians transmissions (both belt and gear), clutch, final drive, brake, and suspension system diagnosis and repair.

MOTO 1142 – M/C & OPE Drive Train Lab **5 cr**
Coreq: MOTO 1141. Hands-on component of fundamentals learned in MOTO 1141.

MSE 2000 – Cooperative Education In Material Science Engineering **1-2 cr**
Prereq: Sophomore standing, minimum 2.0 GPA, and departmental approval. This is a supervised work experience in a business, industrial or government environment, related to the program major. Credit is awarded for successful completion of specified learning objectives.

MSE 2010 – Intro to Materials Sci. Engr. **4 cr**
Prereq: CHEM 1210. An introduction to materials science for majors. The five material categories; metals, ceramics, polymers, composites, semiconductors are introduced. Concepts are reinforced with hands-on experiences.

MSE 2160 – Elements of Material Science **3 cr**
Prereq: CHEM 1210. The five classes of materials; metals, ceramics, polymers, composites and semiconductors are introduced. The effect of structure on material properties is explored on both the macroscopic and microscopic level.

MSE 2170 – Material Science for Civil **1.5 cr**

Prereq: CHEM 1210. Five classes of materials metals, ceramics, polymers, composites and semiconductors are introduced. The effect of structure on material properties is explored on both the macroscopic and microscopic level.

MSE 2320 – Introduction To Scanning Probe Microscopy **2 cr**

Prereq: CHEM 1110 or 1210. Theory and practice related to the use of Scanning Probe Microscopes, including Atomic Force Microscopes (AFM) and Scanning Tunneling Microscopes(STM) . Experience with Contact Mode, Tapping Mode and Friction Mode and lithographic applications such as dip pen lithography and nano shaving. Students will create their own samples as well as imaging commercially available samples.

MSE 2330 – Introduction to Scanning Electron Microscopy **2 cr**

Prereq: CHEM 1110 or CHEM 1210 Recommended Prereq: PHYS 2220. This course introduces students to the use of the Scanning Electron Microscope, in both standard and EDS mode. Includes both theory and practical applications.

MSE 2900 – Special Topics In Materials Science Engineering **1-3 cr**

Special Topics reflecting items of current interest in Materials Science Engineering.

MUSC 0990 – Recital Attendance **0 cr**

A course to broaden the music majors vision of performance: staging, interpretation, execution and removing barrier between performer and audience. Major attend departmental recitals and concerts.

MUSC 1010 – Introduction to Music (FA) **3 cr**

An introductory survey of Western music from chant to jazz highlighting major contributions from the Middle Ages, Renaissance, Baroque, Classical, Romantic, 20th Century and American musical styles.

MUSC 1020 – History of Rock and Roll (FA) **3 cr**

A comprehensive introduction to rock history providing a look at the evolution of rock music from its roots to the present.

MUSC 1030 – Survey of Jazz (FA) **3 cr**

A chronology of jazz from its roots in blues and ragtime to swing, bebop, fusion, and funk.

MUSC 1040 – U.S. Music & Culture (FA,DV) **3 cr**

A survey of music in the United States exploring the diverse musical traditions of this country. Students will apply listening and analytical skills to understand current topics of diversity in American culture as they relate to music.

MUSC 1050 – Songwriting I **2 cr**
Learn songwriting skills including song forms, melody and text. Students will use MIDI technology to produce recordings of their songs.

MUSC 1060 – Songwriting II **2 cr**
Prereq: MUSC 1050 w/C grade or better or instructor approval. Continued instruction in basic songwriting skills building on those skills learned in Songwriting I. Students will write several songs in a workshop setting during the course of the semester.

MUSC 1090 – Bridging the Arts (FA) **3 cr**
Course examines the interconnectedness of art, dance, music, and theatre by investigating the artistic elements and common thread within the creative process to develop an informed appreciation for ones own artistic values.

MUSC 1100 – Introduction to Music Theory **2 cr**
Music fundamentals course. Materials to be covered: Basic music notation, rhythm, meter, pitch, chord construction and simple chord progressions.

MUSC 1110 – Music Theory I **3 cr**
Recommended prereq: MUSC 1100 or equivalent proficiency (test given first day.) Coreq: MUSC 1130 for Music majors. First semester of a four-semester series. Materials to be covered: music fundamentals, beginning harmonic progression and voice leading.

MUSC 1120 – Music Theory II **3 cr**
Prereq: MUSC 1110 w/C grade or better. Coreq: MUSC 1140 for Music majors. 2nd semester of a 4-semester series. Topics to be covered: phrase structure, period forms, non-chord tones, diatonic seventh chords, and secondary dominant and leading-tone chords.

MUSC 1130 – Sight Singing/Ear Training I **1 cr**
Prereq: MUSC 1110 or concurrently. Coreq: MUSC 1110 for Music Majors. First semester of a four-semester series. Development of aural skills, including sight singing and dictation of rhythms, melodies, and harmonic progressions.

MUSC 1140 – Sight Singing/Ear Training II **1 cr**
Prereq: MUSC 1120 or concurrently, and MUSC 1130 (both w/C grade or better). Second semester of a four-semester series. Continued development of aural skills, building on those learned in SS-ET I.

MUSC 1145 – Introduction to Piano **2 cr**
Beginning piano instruction in a group setting for non-music majors.

MUSC 1150 – Group Piano I **1 cr**
First semester of beginning piano instruction in a group setting for music majors.

MUSC 1160 – Group Piano II **1 cr**
Prereq: MUSC 1150 or instructor approval. Second semester of beginning piano instruction in a group setting for music majors.

MUSC 1200 – Introduction to the Music Industry **1 cr**
This course gives a fundamental overview of the workings of the music industry and encourages students to use entrepreneurial thinking to seek opportunities in this rapidly changing business.

MUSC 1300 – Money & Creative Professionals **1 cr**
Basic financial information for creative professionals or students interested in freelance work or setting up a studio. This course is useful for artists working in the areas of fine art, the many forms of design, photography, film/video, music, advertising, the performing arts and creative or technical writing.

MUSC 1310 – Group Voice **2 cr**
Individual student vocal skills developed in a group setting. Music fundamentals are introduced.

MUSC 1350 – College Chorale **1 cr**
A non-audition choir. Teaches choral singing skills. Open to all students who would like to sing. May be repeated for credit.

MUSC 1360 – College Chorale **0 cr**
Same as MUSC 1350 with no credit. Special fee required.

MUSC 1370 – Concert Choir **1 cr**
Prereq: Audition. A large four-part select ensemble that specializes in large choral/orchestral works by major composers. Participation in Concert Choir meets the ensemble requirements for a music degree and may be repeated for credit.

MUSC 1380 – Chamber Singers **1 cr**
Prereq: Audition. A select mixed-voice chamber choir that performs smaller works from all stylistic periods. Concurrent participation in Concert Choir is a requirement for membership in Chamber Singers. May be repeated for credit.

MUSC 1390 – South City Jazz **1 cr**
Prereq: Audition. A highly select vocal ensemble devoted to performing contemporary music of exceptional quality. Concurrent participation in Concert Choir is a requirement for membership in South City Jazz. May be repeated for credit.

MUSC 1400 – Copyrights for Creative Professionals **1 cr**
This introductory short course focuses on U. S. copyrights given to creative individuals who produce visual, musical, literary works of art or performing arts. The course also covers licensing and trademarking.

MUSC 1420 – Salesmanship And Promotion For Creative Professionals **2 cr**
This introductory short course will introduce basic sales and self-promotional principles and techniques specifically tailored for creative artists.

MUSC 1440 – Building A Creative Business **2 cr**
This introductory short course will introduce basic business structures and examine the process of setting up a business for creative professionals working in the areas of music, the many forms of visual design, fine art, animation, film and video, and the literary arts.

MUSC 1450 – Concert Band **1 cr**
Concert Band is for woodwind, brass and percussion students performing a wide range of music styles from classical to jazz.

MUSC 1460 – Symphony Orchestra **1 cr**
Prereq: Audition. Symphony Orchestra is for concert strings, woodwind, and percussion students who perform a wide range of styles from the symphony orchestra repertoire.

MUSC 1470 – Jazz Ensemble **1 cr**
Prereq: Audition. A jazz ensemble that will work on individual skills in large and small ensemble jazz performance.

MUSC 1480 – Guitar Ensemble **1 cr**
Prereq: Audition. A performing guitar ensemble for intermediate to advanced students.

MUSC 1500 – Music and Technology (ID) **3 cr**
Explores the influence of technology on musical creation and introduces students to current music-related technologies, including digital audio recording, MIDI, music notation software, computer-aided music instruction, etc.

MUSC 1510 – Desktop Music Publishing **3 cr**
Recommended prereq: MUSC 1100 or concurrently; or equivalent proficiency in reading musical notation. Instruction in music notation engraving and publishing using MIDI-based music notation software.

MUSC 1515 – Basic Audio Production **3 cr**
A broad overview of sound, sound systems, recording, and live sound reinforcement providing basic training in the physics of sound and the hardware and systems used to control and record it.

MUSC 1520 – Intro to MIDI/Elec Music Comp **3 cr**
Introduction to electronic instruments, including synthesis and sampling: digital communication between electrical musical devices (MIDI); basic principles of music comp. and performance for electronic instruments and computer-based arranging.

MUSC 1530 – Music Recording Techniques **4 cr**
Prereq: MUSC 1515 or instructor approval. Instruction in digital music recording in both studio and live performance settings.

MUSC 1540 – MIDI II/Media Music Comp **3 cr**
Prereq: MUSC 1520 or instructor approval. Continued instruction in music composition using computers and MIDI-compatible elec. instruments; introduces students to professional-type projects.

MUSC 1550 – Musical Acoustics **3 cr**
Recommended prereq: Math proficiency Algebra and Geometry. Basic instruction in musical acoustics beginning with a foundation in the physics of sound waves, sound measurement, and the human ear. Students will learn how different instruments create musical sounds and fundamental aspects of room acoustics and sound reproduction. They will also learn how these principles affect human perception of musical experiences.

MUSC 1560 – Music Mixing Techniques **3 cr**
Prereq: MUSC/COMM/FLM/THEA 1515. Music Mixing Techniques is designed to teach intermediate to advanced concepts in editing and mixing of digital multitrack audio. Students will be given the opportunity to work in a commercial style recording facility and learn to use equipment and methods that are consistent with current recording industry practices.

MUSC 1610 – Group Guitar I **2 cr**
Beginning guitar in a group setting. Includes basic chords in open position, strumming, finger style accompaniment patterns, standard notation, transposition and construction of chord progressions.

MUSC 1620 – Group Guitar II **2 cr**
Prereq: MUSC 1610. Intermediate level guitar in a group setting. Includes chords with added bass notes, bar chords, single note melodies, combining notes and chords, tablature and improvisation.

MUSC 1660 – Fretboard Theory I **2 cr**
Music theory for guitar. Includes scales, intervals, triads, seventh chords, harmonizing simple melodies and basic rhythm reading.

MUSC 1670 – Fretboard Theory II **2 cr**
Prereq: MUSC 1660. Music theory for guitar. Includes scales, intervals, triads and seventh chord relationships, non-harmonic tones, phrase structures, cadences, secondary dominate and modulations. Popular and classic styles.

MUSC 1710 – Pvt Lessons:Guitar **1 cr**
12 one-half hour private music lessons for non-music majors on fretted string instruments; guitar, bass. Additional fee is required.

MUSC 1712 – Pvt Lessons:Guitar **1 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12 one-half hour private music lessons for music majors on fretted string instruments: Guitar, Bass. Additional fee is required.

MUSC 1715 – Pvt Lessons:Guitar **2 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12, 45 minute private music lessons for music performance majors on fretted string instruments: Guitar/Bass. Additional fee is required.

MUSC 1720 – Pvt Lessons:Strings **1 cr**
12 one-half hour private music lessons for non-music majors on string instruments: violin, viola, cello, contrabass. Additional fee is required.

MUSC 1722 – Pvt Lessons:Strings **1 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12 one-half hour private music lessons for music majors on string instruments: violin, viols, cello, contrabass. Additional fee is required.

MUSC 1725 – Pvt Lessons:Strings **2 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12, 45 minute private music lessons for music performance majors on string instruments: violin, viola, cello, contrabass. Additional fee is required.

MUSC 1730 – Private Lessons: Piano **1 cr**
12 one-half hour private music lessons for non-music majors on keyboard instruments: piano, organ, keyboards. Additional fee is required.

MUSC 1732 – Private Lessons: Piano **1 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12 one-half hour private music lessons for music majors on keyboard instruments: piano, organ, keyboards. Additional fee is required.

MUSC 1735 – Private Lessons: Piano **2 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12, 45 minute private music lessons for music performance majors on keyboard instruments: piano, organ, keyboards. Additional fee is required.

MUSC 1740 – Pvt Lessons:Brass **1 cr**
12 one-half hour private music lessons for non-music majors on brass instruments: trumpet, French horn, trombone, euphonium or tuba. Additional fee is required.

MUSC 1742 – Pvt Lessons:Brass **1 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12 one-half hour private music lessons for music majors on brass instruments: trumpet, French horn, trombone, euphonium or tuba. Additional fee is required.

MUSC 1745 – Pvt Lessons:Brass **2 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12, 45 minute private music lessons for music performance majors on brass instruments: trumpet, French horn, trombone, euphonium or tuba. Additional fee is required.

MUSC 1750 – Private Lessons: Voice **1 cr**
12 one-half hour private music lessons for non-music majors on voice: soprano, alto, tenor, bass. Additional fee is required.

MUSC 1752 – Private Lessons: Voice **1 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12 one-half hour private music lessons for music majors on voice: soprano, alto, tenor, bass. Additional fee is required.

MUSC 1755 – Private Lessons: Voice **2 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12, 45 minute private music lessons for music performance majors on voice: soprano, alto, tenor, bass. Additional fee is required.

MUSC 1760 – Pvt Lessons:Wwinds **1 cr**
12 one-half hour private music lessons for non-music majors on woodwind instruments: flute, oboe, clarinet, bassoon, saxophone. Additional fee is required.

MUSC 1762 – Pvt Lessons:Wwinds **1 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12 one-half hour private music lessons for music majors on woodwind instruments: flute, oboe, clarinet, bassoon, saxophone. Additional fee is required.

MUSC 1765 – Pvt Lessons:Wwinds **2 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12, 45 minute private music lessons for music performance majors on woodwind instruments: flute, oboe, clarinet, bassoon, saxophone. Additional fee is required.

MUSC 1770 – Private Lessons: Percussion **1 cr**
12 one-half hour private music lessons for non-music majors on percussion instruments: drums, set, xylophone, marimba, timpani, and percussion. Additional fee is required.

MUSC 1772 – Private Lessons: Percussion **1 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12 one-half hour private music lessons for music majors on percussion instruments: drums, set, xylophone, marimba, timpani, and percussion. Additional fee is required.

MUSC 1775 – Private Lessons: Percussion **2 cr**
Prereq: Audition (Must be able to perform NYSSMA Grade 4 Literature at a minimum). 12, 45 minute private music lessons for music performance majors on percussion instruments: drums, set, xylophone, marimba, timpani, and percussion, Additional fee is required.

MUSC 1900 – Special Studies **1-3 cr**
Prereq: Instructor approval. Students plan their areas of work or performance with the instructor on an individual basis.

MUSC 2110 – Music Theory III **3 cr**
Prereq: MUSC 1120 w/C grade or better. Coreq: MUSC 2130 for music majors. 3rd semester of a 4-semester series. Materials to be covered: chromatic harmony, modulation techniques, basic formal analysis.

MUSC 2120 – Music Theory IV **3 cr**
Prereq: MUSC 2110 w/C grade or better. Coreq: MUSC 2140 for Music majors. 4th semester of a 4-semester series. Material to be covered: advanced chromatic harmony, impressionism and 20th century theory including set theory, serialism, etc.

MUSC 2130 – Sight Singing/Ear Training III **1 cr**
Prereq: MUSC 2110 or concurrently and MUSC 1140 (both w/C grade or better). Third semester of a four-semester series. Continued development of aural skills, building on those learned in SS-ET I and II.

MUSC 2140 – Sight Singing/Ear Training IV **1 cr**
Prereq: MUSC 2120 or concurrently, and MUSC 2130 (both w/C grade or better). Fourth semester of a four-semester series. Continued SS-ET I, II and III.

MUSC 2350 – Conducting Fundamentals **2 cr**

Prereq: MUSC 1120. The fundamentals of conducting music, including beat patterns, baton technique, score reading, cuing, subdivisions, fermatas and releases. The class will function as an ensemble and each student will conduct the group.

MUSC 2500 – Music Production Group **4 cr**

Prereq: MUSC 1060 (Songwriting II) w/C grade or better, MUSC 1530 (Music Recording Techniques) or MUSC 1540 (MIDI II/Media Music Composition) or instructor approval. Hands-on experience creating music for professional-level projects.

MUSC 2510 – Music Composition for Games and Interactive Media **3 cr**

Prereq: MUSC 1540 or MUSC 1120 w/C grade or better; or instructor approval. Instruction and practice in composing music for use in video games and interactive multimedia applications. Students will study existing games and media to learn how music can be effectively used. They will also experience the process of creating and preparing music for a variety of uses in the field.

MUSC 2520 – Music Scoring For Film **3 cr**

Prereq: MUSC 1540 w/C grade or better, or instructor approval. Instruction and practice in composing music for use as underscore in film. Students will examine the scores of historical and present-day films to learn different approaches to film scoring and the different roles music can play in film, will learn about the process of creating music for film from the spotting session through the final audio mix and will compose and record their own underscores.

MUSC 2550 – Music Internship **1-3 cr**

Prereq: Instructor approval and second year status in the Music Recording Technology or Media Music programs. The Music Internship is an opportunity for students to gain college credit for participating in an internship with a professional recording studio or related business such as an audio post facility or pro-audio dealer under the guidance of an SLCC faculty member in the Fine Arts.

MUSC 2570 – Game Audio Design **3 cr**

Prereq: MUSC 1515. This course introduces students to the field of sound design for games and interactive media. Students will develop skills in creation of game audio assets and in the use of middle-ware programs used in the video game industry for the implementation of assets within the game environment.

MUSC 2710 – Pvt Lessons:Guitar **1 cr**

Prereq: MUSC 1710. 12 one-half hour private music lessons for non-music majors on fretted string instruments; guitar, bass. Additional fee is required.

MUSC 2712 – Pvt Lessons:Guitar/Bass **1 cr**
Prereq: MUSC 1712 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12 one-half hour private music lessons for music majors on fretted string instruments: guitar, bass. Additional fee is required.

MUSC 2715 – Pvt Lessons:Guitar **2 cr**
Prereq: MUSC 1715 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, 45 minute private music lessons for music performance majors on fretted string instruments: guitar, bass. Additional fee is required.

MUSC 2720 – Pvt Lessons:Strings **1 cr**
Prereq: MUSC 1720. 12 one-half hour private music lessons for non-music majors on string instruments: violin, viola, cello, contrabass. Additional fee is required.

MUSC 2722 – Pvt Lessons:Strings **1 cr**
Prereq: MUSC 1722 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, one-half hour private music lessons for music majors on string instruments: violin, viola, cello, contrabass. Additional fee is required.

MUSC 2725 – Pvt Lessons:Strings **2 cr**
Prereq: MUSC 1725 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, 45 minute private music lessons for music performance majors on string instruments: violin, viola, cello, bass. Additional fee is required.

MUSC 2730 – Private Lessons: Piano **1 cr**
Prereq: MUSC 1730. 12, one-half hour private music lessons for non-music majors on keyboard instruments: piano, organ, keyboards. Additional fee is required.

MUSC 2732 – Private Lessons: Piano **1 cr**
Prereq: MUSC 1732 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, one-half hour private music lessons for music majors on keyboard instruments: piano, organ, keyboards. Additional fee is required.

MUSC 2735 – Private Lessons: Piano **2 cr**
Prereq: MUSC 1735 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, 45 minute private music lessons for music performance on keyboard instruments: piano, organ, keyboards. Additional fee is required.

MUSC 2740 – Pvt Lessons:Brass **1 cr**
Prereq: MUSC 1740. 12, one-half hour private music lessons for non-music majors on brass instruments: trumpet, French horn, trombone, euphonium or tuba. Additional fee is required.

MUSC 2742 – Pvt Lessons:Brass **1 cr**
Prereq: MUSC 1742 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, one-half hour private music lessons for music majors on brass instruments: trumpet, French horn, trombone, euphonium or tuba. Additional fee is required.

MUSC 2745 – Pvt Lessons:Brass **2 cr**
Prereq: MUSC 1745 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, 45 minute private music lessons for music performance majors on brass instruments: trumpet, French horn, trombone, euphonium or tuba. Additional fee is required.

MUSC 2750 – Private Lessons: Voice **1 cr**
Prereq: MUSC 1750. 12, one-half hour private music lessons for non-music majors on voice: soprano, alto, tenor, bass. Additional fee is required.

MUSC 2752 – Private Lessons: Voice **1 cr**
Prereq: MUSC 1752 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, one-half hour private music lessons for music majors on voice: soprano, alto, tenor, bass. Additional fee is required.

MUSC 2755 – Private Lessons: Voice **2 cr**
Prereq: MUSC 1755 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, 45 minute private music lessons for music performance majors on voice: soprano, alto, tenor, bass. Additional fee is required.

MUSC 2760 – Private Lessons: Winds **1 cr**
Prereq: MUSC 1760. 12, one-half hour private music lessons for non-music majors on woodwind instruments: flute, oboe, clarinet, bassoon, saxophone. Additional fee is required.

MUSC 2762 – Private Lessons: Winds **1 cr**
Prereq: MUSC 1762 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, one-half hour private music lessons for music majors on woodwind instruments: flute, oboe, clarinet, bassoon, saxophone. Additional fee is required.

MUSC 2765 – Pvt Lessons:Wwinds **2 cr**
Prereq: MUSC 1765 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, 45 minute private music lessons for music performance majors on woodwind instruments: flute, oboe, clarinet, bassoon, saxophone. Additional fee is required.

MUSC 2770 – Private Lessons: Percussion **1 cr**
Prereq: MUSC 1770. 12, one-half hour private music lessons for non-music majors on percussion instruments: drums, set, xylophone, marimba, timpani, percussion. Additional fee is required.

MUSC 2772 – Private Lessons: Percussion **1 cr**
Prereq: MUSC 1772 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, one-half hour private music lessons for music majors on percussion instruments: drums, set, xylophone, marimba, timpani and percussion. Additional fee is required.

MUSC 2775 – Private Lessons: Percussion **2 cr**
Prereq: MUSC 1775 and Audition (Must be able to perform NYSSMA Grade 5 Literature at minimum). 12, 45 minute private music lessons for music performance majors on percussion instruments: drums, set, xylophone, marimba, timpani and percussion. Additional fee is required.

MUSC 2900 – Special Topics **1-4 cr**
Prereq: Department approval. A course in which students explore specific areas of interest under faculty direction.

MUSC 2990 – Fine Arts Project **2 cr**
Prereq: Department approval. A collaboration of dance, music, theatre and/or art students to create individual works to be performed.

NAV 1010 – Beginning Navajo I **5 cr**
First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Navajo culture. Lab attendance is required.

NAV 1020 – Beginning Navajo II(LN) **5 cr**
Prereq: NAV 1010 or instructor approval. The second in a four-course series focusing on five skills: listening, speaking, reading, writing and culture; to develop functional language ability in survival and social situations. Emphasis is on proficiency. Attendance in lab is required.

NDT 1110 – Intro./Non-Destructive Testing **3 cr**
An introduction to the five major non-destructive testing methods, certification requirements, inspectors responsibilities, visual testing and the use and operation of gauges.

NDT 1114 – Ultrasonics 1 Theory **3 cr**
Coreq: NDT 1115. This course is devised to give the student a complete introduction through hands-on-experience in the ultrasonic method within the field of Nondestructive Testing. The course is designed to meet certain NDT Level I requirements in accordance with A.S.N.T. SNT-TC-1A & NAS-410.

NDT 1115 – Ultrasonics I Lab **1 cr**
Coreq: NDT 1114. Students will learn basic applications of ultrasonic inspection. Emphasis is placed on familiarizing students with the components and controls of ultrasonic equipment and calibration.

NDT 1120 – Magnetic Particle I **2 cr**
Coreq: NDT 1121. A basic to advanced theory of magnetic particle testing. How magnetizing currents are used, formulas, methods, applications and limitations.

NDT 1121 – Magnetic Particle I Lab **1 cr**
Coreq: NDT 1120. Students will learn basic and advanced applications of magnetic fields, material sensitivity and equipment calibration.

NDT 1122 – Eddy Current 1 Theory **3 cr**
Coreq: NDT 1123. A basic theory of electromaganetic principles, formulas, material applications, methods and limitations. The course is designed to meet certain NDT Level I requirements in accordance with ASNT-SNT-TC-1A & NAS-410.

NDT 1123 – Eddy Current I Lab **1 cr**
Coreq: NDT 1122. Emphasis is placed on familiarizing students with controls of eddy current machines and calibration.

NDT 1130 – Radiation Safety **3 cr**
Students are instructed in the rules and regulations of radiation safety, including the characteristics of X-ray and gamma radiation. Use and operation of equipment, calculations, and NRC requirements.

NDT 1132 – Radiography 1 Theory **3 cr**
Coreq: NDT 1130. A basic theory of radiography, formulas, inspection methods, film processing, material sensitivity applications and limitations. The course is designed to meet certain NDT Level I requirements in accordance with ASNT-SNT-TC-1A & NAS-410.

NDT 1133 – Radiography I Lab **1 cr**
Coreq: NDT 1132. This course familiarizes students with the components and controls of radiographic equipment. Students apply each of the techniques on various lab samples. NRC safety regulations are also emphasized.

NDT 1210 – Liquid Penetrant I & II **2 cr**
Coreq: NDT 1211. A basic to advanced theory of liquid penetrant testing. How liquid penetrants are used, formulas, methods, applications and limitations.

NDT 1211 – Liquid Penetrant I & II Lab **1 cr**
Coreq: NDT 1210. Students will learn basic and advanced applications of liquid penetrants material sensitivity and equipment calibration.

NDT 1213 – Ultrasonics II **3 cr**
Coreq: NDT 1214. Students will learn basic and advanced applications of liquid penetrants material sensitivity and equipment calibration.

NDT 1214 – Ultrasonics II Lab **1 cr**
Coreq: NDT 1213. Students perform ultrasonic inspection to applicable codes and standards as they apply techniques developed and special techniques.

NDT 1222 – Eddy Current II **2 cr**
Prereq: NDT 1122 and NDT 1123. Coreq: NDT 1223. This advanced theory of eddy current inspection concentrates on codes and standards as they apply to eddy current testing, reporting of test results and developing techniques.

NDT 1223 – Eddy Current II Lab **1 cr**
Coreq: NDT 1222. Students perform eddy current inspection to applicable codes and standards, applying techniques developed and special applications.

NDT 1230 – Codes and Procedures **2 cr**
Prereq: Instructor approval. Students will learn how to read and interpret a variety of codes including ISO 9712, ASME, API, and ASTM documents.

NDT 1232 – Radiography II **3 cr**
Prereq: NDT 1132 and NDT 1133. Coreq: NDT 1233. This advanced theory of radiographic inspection concentrates on codes and standards as they apply to radiography, reporting of test results and developing techniques.

NDT 1233 – Radiography II Lab **1 cr**
Coreq: NDT 1232. This advanced course concentrates on film interpretation, multiple film loading techniques and radiographic procedures.

NDT 1234 – Advanced NDT Concepts **3 cr**
Prereq: Instructor approval. The study of advanced concepts of NDT including specific methods and applications using radioactive isotopes. Emphasis is placed on procedures and applications.

NSG 1200 – Pharmacology I **2 cr**
Prereq: Competion of Prerequisite courses and Admission to the program per established curriculum plan. Introduces the basic concepts of pharmacology. Utilizing the nursing process, students are introduced to the safe administration of medications to clients across the health continuum.

NSG 1300 – Nursing Fundamentals **4 cr**

Prereq: Competion of Prerequisite courses and Admission to the program per established curriculum plan. Coreq: NSG 1305 (without exception). Introduces theories basic to the student assuming the role of provider, manager and member of the nursing profession. Emphasis is placed on introduction to critical thinking and the nursing process.

NSG 1305 – Nursing Fundamentals Clinical **2 cr**

Prereq: Competion of Prerequisite courses and Admission to the program per established curriculum plan. Coreq: NSG 1300 (without exception). The clinical experience builds upon concepts and skills introduced in NSG 1300. Clinical experience expands critical thinking by incorporating the multidisciplinary team in the care of the Nursing Fundamentals client.

NSG 1400 – Maternal Newborn Nursing **2 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 1405 (without exception). Provides family centered approach to nursing care of the childbearing client and family across the continuum as provider and manager of care in health care settings.

NSG 1405 – Maternal Newborn Nursing Clin. **1 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 1400 (without exception). The clinical experience builds upon concepts and skills introduced in NSG 1400. Clinical experience expands critical thinking by incorporating the multidisciplinary team in the care of the Maternal Newborn client.

NSG 1500 – Nursing Care of Children **2 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 1505 (without exception). Introduces students to family centered pediatric nursing care of infants, children, adolescents and their families across the health continuum in body systems.

NSG 1505 – NSG Care of Children Clinical **0 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 1500 (without exception). The clinical experience builds upon concepts and skills introduced in Nursing Care of Children. Clinical experience expands critical thinking by incorporating the multidisciplinary team in the care of the pediatric client.

NSG 1700 – Medical Surgical Nursing I **4 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 1705 (without exception). Builds upon prior curriculum content to introduce the student to basic medical/surgical nursing care across the health continuum.

NSG 1705 – Med/Surg Nursing I Clinical **2 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 1700 (without exception). The clinical experience builds upon concepts and skills introduced in NSG 1700. Clinical experience expands critical thinking by incorporating the multidisciplinary team in the care of the basic medical surgical client.

NSG 1800 – Transition Into Practical Nur **2 cr**

Prereq: Completion of the first year of nursing and all co-requisites (English 1010, Psych 1100 and Health 1020).Coreq: NSG 1805 (without exception). Prepares the qualified student to transition into the role of practical nurse. The nursing process and critical thinking skills are utilized in the study and application of contents essential to client care across the health continuum.

NSG 1805 – Trans/Pract. Nursing Clinical **1 cr**

Prereq: Completion of the first year of nursing and all co-requisites (English 1010, Psych 1100 and Health 1020). Coreq: NSG 1800 (without exception). The clinical experience builds upon the concepts and skills introduced in the first year of the nursing program. Clinical experience expands critical thinking related to the role and scope of practice of the LPN.

NSG 1900 – Transition into A.S. Nursing **1 cr**

Prereq: Acceptance into the Advanced Placement Nursing Program. This course is designed to assist the licensed practical nurse in adapting to the new role of a registered nurse as provider, manager and member of the nursing profession. The student will identify critical thinking skills necessary to provide complex client care across the health continuum.

NSG 1990 – Independent Study Course **1-5 cr**

Prereq: Actively enrolled in the Nursing Program. This course is offered on an individual basis to student nurses. It allows the student to complete one to five hours of guided independent learning experiences within the first year.

NSG 2100 – Pharmacology II **2 cr**

Prereq: Admission to the program per established curriculum plan. Continues to build upon the concepts introduced in NSG 1200 Pharmacology I, in the safe administration of medications of clients across the health continuum.

NSG 2200 – Med/Surg Nursing II **4 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 2205 (without exception). Builds upon concepts introduced in NSG 1700. Course content expands critical thinking by reviewing body systems and the nursing process for the care of the intermediate medical/surgical client.

NSG 2205 – Med/Surg Nursing II Clinical **2 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 2200 (without exception). The clinical experience builds upon concepts and skills introduced in NSG 2200. Clinical experience expands critical thinking by incorporating the multidisciplinary team in the care of the intermediate medical surgical client.

NSG 2300 – Community Nursing **2 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 2305 (without exception). Introduces students to various health care delivery systems within the community. Concepts of holistic care are emphasized in providing primary, secondary and tertiary prevention to aggregates across the health continuum.

NSG 2305 – Community Nursing Experience **0 cr**

Prereq: Completion of prior semester courses per establish curriculum plan. Coreq: NSG 2300 (without exception). This experience builds upon concepts and skills introduced in NSG 2300. Discretionary hours experience expands critical thinking by incorporating the multidisciplinary team in the care of the Community Nursing client.

NSG 2400 – Medical/Surgical Nursing III **3 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 2405 (without exception). This course integrates all previous curricular concepts in medical/surgical nursing into the care of the critically ill client. Course content expands critical thinking by reviewing body systems and the nursing process for the care of the critically ill client.

NSG 2405 – Med/Surg Nursing III Sim **0 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 2400 (without exception). The simulation experience builds upon concepts and skills introduced in NSG 2400. Simulation experience expands critical thinking by incorporating the multidisciplinary team in the care of the advanced medical surgical nursing client.

NSG 2500 – Nursing Management: A Clinical Synthesis **3 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Introduces the student to current trends and issues affecting client care and the nursing profession. Students will participate in 100 hours of capstone/synthesis clinical experience.

NSG 2600 – Mental Health Nursing **2 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 2605 (without exception). Intended to provide basic understanding of psychiatric nursing care principles to clients across the health continuum.

NSG 2605 – Mental Health Nursing Clinical **1 cr**

Prereq: Completion of prior semester courses per established curriculum plan. Coreq: NSG 2600 (without exception). The clinical experience builds upon concepts and skills introduced in NSG 2600. Clinical experience expands critical thinking by incorporating the multidisciplinary team in the care of the Mental Health client.

NSG 2900 – Pathophysiology **4 cr**

Prereq: Completion of Nursing Program prerequisite courses. Intended to provide basic understanding of pathophysiologic principles and processes across the health continuum. These are discussed and applied to the most common disease states according to each body system.

NSG 2990 – Independ Study Course 2nd Year **1-5 cr**

Prereq: Actively enrolled in the Nursing Program. This course is offered on an individual basis to student nurses. It allows the student to complete one to five hours of guided independent learning experiences within the second year.

OTA 1020 – Intro to Occupational Therapy **2 cr**

Students learn a general overview of Occupational Therapy which includes three required job shadow experiences that the student must arrange independently.

OTA 1100 – Functional Anatomy **3 cr**

Prereq: Acceptance to the OTA program. Coreq 1105. Students will explore neuro-musculoskeletal anatomy in depth and relate it to functional activity. Topics include neuroanatomy, structure and function of the musculoskeletal system, and components of human motion.

OTA 1105 – Functional Anatomy Lab **1 cr**

Prereq: Acceptance into the OTA Program: Corequ: OTA 1100. Students will explore neuro-musculoskeletal anatomy in depth and relate it to functional activity. Topics include neuroanatomy, structure and function of the musculoskeletal system, and components of human motion.

OTA 1120 – OT Modalities I Lecture **2 cr**

Prereq: Acceptance to the OTA program. Coreq: OTA 1130. Students study manual wheelchair parts/use/design/fit, ADL and IADL techniques & adapted devices; activity analysis; architectural accessibility and universal design; ergonomics; static splints/hand assessments, workplace design and patient cognitive levels. Designated as a service learning course.

OTA 1130 – OT Modalities I Lecture/Lab **3 cr**

Prereq: Acceptance into the OTA program Coreq: OTA 1120. Students have practical application and active learning in lecture content. Designated service learning course.

OTA 1140 – Physical Dysfunction Lecture **3 cr**

Prereq: Acceptance into the OTA Program. Corequisite: OTA 1150. Students learn the effects of dysfunction on occupational habits and occupational roles, apply the OT process, problem-solve ideas, become introduced to rehabilitation assessment, treatment techniques, and community resources.

OTA 1150 – Physical Dysfunction Lec/Lab **3 cr**

Prereq: Acceptance into the OTA Program. Coreq: OTA 1140. Students learn practical application and apply active learning in lecture content. Designated as a service learning class.

OTA 1170 – Physical Dysfunction Fieldwork I Experience **2 cr**

Prereq:Acceptance into the OTA program. This course prepares students for an adult rehab off-site experience along with instruction on quantitative competencies for the profession. Designated service learning course.

OTA 1180 – OT Domain & Process **2 cr**

Prereq: Acceptance into the OTA program. Students learn the history, models of practice and frames of reference in occupational therapy, along with the domain and process of the profession. Students will have an introduction to documentation, medical terminology, and goal writing formats.

OTA 1210 – OT Professional Issues I **2 cr**

Prereq: Acceptance into the OTA program. Students will study professional behaviors appropriate for placement in fieldwork sites. Successful work skills, advocating for the Occupational Therapy (OT) profession, creative planning and client-centered practice in the community will be explored. This is a designated service learning course.

OTA 1220 – OT Modalities II Lecture **2 cr**

Prereq: Complete all 1st semester OTA courses. Coreq: OTA 1230. Students will learn theory of assistive technology and application of upper extremity splinting, prostheses, orthotic devices, computer technology and environmental controls.

OTA 1230 – OT Modalities II Lecture/Lab **3 cr**

Prereq: Complete all 1st semester courses. Coreq: OTA 1220. Students learn practical application and active learning from OTA 1220. This course is a designated service learning course.

OTA 1240 – Physical Dysfunction II **3 cr**

Prereq: Complete all 1st semester courses. Coreq: OTA 1250. Students continue the study of additional adult disabilities to learn how effects of dysfunction on occupational habits and occupational roles, apply the Occupational Therapy (OT) process, problem-solve ideas, become introduced to rehabilitation assessment, treatment techniques, and community resources.

OTA 1250 – Physical Dysfunction II Lab **3 cr**
Prereq: Complete all 1st semester courses. Coreq: OTA 1240. Students learn practical application and active learning in lecture content. Designated as a service learning class.

OTA 1270 – Pediatrics Fieldwork I Experience **2 cr**
Prereq: Complete all 1st semester courses. This course prepares students for a pediatric off-site experience along with instruction on evidence based treatment. Designated service learning course.

OTA 1280 – Pediatric/Adolescence Lecture **3 cr**
Prereq: Complete all 1st semester courses. Coreq: OTA 1290. Students will study normal human development and common disabilities related to childhood from birth through adolescence.

OTA 1290 – Pediatric/Adolescence Lab **1 cr**
Prereq: Complete all 1st semester courses. Coreq: OTA 1280. Students learn practical application and active learning in lecture content. This is a designated service-learning course.

OTA 2310 – OT Professional Issues II **2 cr**
Prereq: Complete all 2nd semester courses. Students will study professional behaviors appropriate for placement in FW II sites. Successful work skills, advocating for the Occupational Therapy (OT) profession, creative planning and client-centered practice in the community will be explored. Designated service learning course.

OTA 2320 – OT Modalities III Lecture **2 cr**
Prereq: Complete all 2nd semester courses. Coreq: OTA 2330. Students will learn tool usage and basic craft techniques for therapeutic application, skill development, activity analysis, and group therapy process.

OTA 2330 – Modalities III Lecture/Lab **3 cr**
Prereq: Complete all 2nd semester courses. Coreq: OTA 2320. Students learn practical application and active learning of lecture content. Designated as a service learning course.

OTA 2340 – Psychosocial Behavior **3 cr**
Prereq: Complete all 2nd semester courses. Students will study psychological dysfunction across the life span, OT interventions through current Occupational Therapy (OT) models of practice/frames of reference, and treatment planning interventions including group dynamics and operations.

OTA 2350 – Geriatrics **3 cr**
Prereq: Complete all 2nd semester courses. Students will learn about the normal aging process and performance skill deficits common to the aging population, and interventions to bridge the gap between performance and dysfunction. Designated as a service-learning course.

OTA 2370 – Psychosocial/Geriatric Fieldwork I Experience **2 cr**
Prereq: Complete all 2nd semester courses. This course prepares students for a geri-psych rehab off-site experience along with instruction on preparation for fieldwork IIs. Designated service learning course

OTA 2450 – Fieldwork Experience II Part 1 **6 cr**
Prereq: Complete all 3rd semester courses. Students will complete a full-time eight week clinical fieldwork experience in a community setting arranged by Occupational Therapy Assistant (OTA) faculty along with instruction from a course instructor. Students will practice skills necessary for entry-level performance as an occupational therapy assistant. Designated service learning course.

OTA 2460 – Fieldwork Experience II Part 2 **6 cr**
Prereq: Completed all 3rd semester courses. Students will complete a full-time eight week clinical fieldwork experience in a community setting arranged by Occupational Therapy Assistant (OTA) faculty along with instruction from a course instructor. Students will practice skills necessary for entry-level performance as an occupational therapy assistant. Designated service learning course.

OTA 2960 – OT and PT in the Workplace **2 cr**
Prereq: Instructor approval. Students learn principles of work hardening, work conditioning, industrial rehab as well as work place safety, injury prevention, ergonomics and ADA implementation.

OTA 2990 – Special Topics **2 cr**
Prereq: Instructor approval. This course will cover special topics such as: Review materials for NBCOT Exam. Enrollment requires faculty approval.

PED 1010 – Introduction to Paraeducation **3 cr**
This course overviews concepts relevant to paraeducation including working with teachers, relating to students with disabilities, history of special education services, legal issues and communication techniques. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 1500 – Behavioral Observations **2 cr**
Prereq: PED 1010. This course introduces students to basic behavior management principles used in educational settings. Students will complete experiences within a classroom setting under the direction of a supervising educator. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 1700 – Collaboration in the Classroom **3 cr**
Prereq: PED 1010. A student successfully completing this class will combine the historical foundations and rational with definitions and dimensions of interactive teams for a solid foundation in collaboration within the educational community. Designated as a Service Learning course. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 2100 – Health Needs in the Classroom **3 cr**

Prereq: PED 1010. This class includes how to ensure health care for students who have health impairments. Students will learn about the relationship between school and medical professionals. Designated as a Service Learning course. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 2150 – Introductory Experience **3 cr**

Prereq: PED 1010. Course overviews classroom techniques and will address ethical and professional responsibilities. Under the direction of a supervising educator, students will learn to implement teaching programs using a variety of techniques. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 2160 – Intro Experience Practicum **1 cr**

Coreq: PED 2150. Course provides a supervised classroom experience that allows students to apply what they are learning in the classroom to public education settings. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 2200 – Introduction to Deafblindness **3 cr**

This course is an introduction to deafblindness and its impact on learning and development. It is an overview of the sensory systems and the issues that arise when an individual has a combined loss of vision and hearing. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 2250 – Communication and Interaction **3 cr**

An introduction to the communication needs and relationship development of individuals with deafblindness. This course will explain the unique impact of deafblindness on communication, language, and speech. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 2260 – Deafblindness w/ Disabilities **3 cr**

An overview of modifications and adaptations in accommodating persons with deafblindness and additional disabilities. Introduction of various instructional, material, and environmental strategies will be presented. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PED 2990 – Special Studies in Paraed **1-3 cr**

Prereq: Instructor approval. This course focuses on special projects and/or current topics arranged as needed or as available. Paraeducation students will benefit from selected instructors who specialize in the subject area presented. *Note: The Para Education program is scheduled to be discontinued effective Summer Semester 2015.

PFA 1110 – Trade Related Math **2 cr**
Applied related grade math required for the core curriculum success of each student. This course covers basic math through Triangular Trigonometry.

PFA 1111 – Soldering and Brazing **2 cr**
Theory and application of soldered and brazed joints, pipe preparation, and reaming.

PFA 1140 – Principles of Technology **2 cr**
This class will provide training in basic principles of physics and practical examples that relate to the industry.

PFA 1150 – Job Safety and Heritage **2 cr**
Brief history of the Plumbing/Pipefitting industry and the organizational structure of the trade. Emphasis on the importance of job safety, personal safety, and the well being of others on the job site.

PFA 1160 – Use and Care, Pipe Fittings **2 cr**
Theory and practical hands on applications of various pipe fittings, their uses and purposes, use and care of the materials and equipment used in the trade.

PFA 1170 – Plumbing Science & Mechanics **2 cr**
Course includes the basics of theory involving water, steam, hydraulics, pneumatics, and metals in preparation for deeper understanding of the trade.

PFA 1210 – Gas Installations **2 cr**
Code and local amendments as they pertain to the natural gas and industrial gas usages, various materials required, use applications, and methods of installation accepted by the gas industry.

PFA 1211 – Hydronic Heating Cooling Sys **2 cr**
Hydronics is the science of heating and cooling with water. Curriculum includes technical aspects of design, calculation, and installation of hydronic systems.

PFA 1250 – Basic Electricity **2 cr**
Basic principles and applications of electricity common to Plumbers and Pipefitters. Safety requirements, basic devices and tools, circuits, and electrical measuring instruments are included.

PFA 1260 – Drafting and Plan Reading **2 cr**
This course provides the student with basic principles and practices of plan drafting and interpretation.

PFA 2151 – Welding I **2 cr**
Theory and application of shielded metal arc welding, oxy-acetylene welding and oxy-acetylene cutting. A study of electrode classification and welding procedures with proper safety and safe use of equipment.

PFA 2152 – Welding II **2 cr**
Structural plate welding including flat, horizontal and overhead welding. Weld defects and the properties of metals. Destructive testing and welding procedures for code work.

PFA 2153 – Welding III **2 cr**
Advanced plate welding and certification. Introduction to pipe welding.

PFA 2154 – Welding IV **2 cr**
Advanced welding practices in the pipefitting industry, preparation for certification and code welding methods.

PFA 2155 – Welding V **2 cr**
Theory and application of shielded metal arc welding, oxy-acetylene welding and oxy-acetylene cutting. A study of electrode classification and welding procedures with proper safety and safe use of equipment.

PFA 2156 – Welding VI **2 cr**
Structural welding including flat horizontal, vertical, and overhead welding. Weld defects and the properties of metals Destructive testing and welding procedures for code work.

PFA 2157 – Welding VII **2 cr**
Advanced welding practices in the pipefitting industry, preparation for certification and code welding methods.

PFA 2158 – Welding VIII **2 cr**
Structural plate welding including flat horizontal, vertical and overhead welding. Weld defects and the properties of metals. Destructive testing and welding procedures for code work.

PFA 2159 – Welding IX **2 cr**
Advanced plate welding and certification. Introduction to pipe welding.

PFA 2160 – Welding X **2 cr**
Advanced welding practices in the pipefitting industry, preparation for certification and code welding methods.

PFA 2161 – Pipe Bending **2 cr**
Theory and application of practical pipe bending and methods utilized in the industry.

PFA 2162 – Orbital Welding **2 cr**
This course will include study and training on industry specific power supplies, weld heads and preparation for orbital welding certification.

PFA 2311 – Pumps and Steam Systems **2 cr**
Theory and application of a variety of pumps and pumping processes. Study also includes hot steam systems and the application of pumps and processes utilized in the industry.

PFA 2331 – Brazing, Compressor Overhaul **2 cr**
Basic instruction in brazing and brazing methods, materials used and good practices. Compressor function and utilization. Breakdown of a compressor and component parts testing and inventory.

PFA 2350 – Drainage I **2 cr**
Utilization of drainage in commercial and industrial applications including various materials, applicable piping for drainage systems, installation and joint connections.

PFA 2351 – Drainage II **2 cr**
Industrial and commercial drainage systems, sumps, drain fields and hazardous material handling.

PFA 2360 – Water Supply I **2 cr**
Water supply systems including potable and non-potable water systems. Material usage and application.

PFA 2361 – Water Supply II **2 cr**
Advanced water supply system study including commercial and industrial applications.

PFA 2441 – Advanced Plan Reading **2 cr**
Study of isometric pipe and plumbing drawings and shop drawings as used in the industry.

PFA 2450 – Bldrs Level and Special Inst. **2 cr**
Instruction in the set-up and use of a builders level, lasers, and special instruments for layout and leveling.

PFA 2460 – Hydronics Systems **2 cr**
Advanced course in hydronics systems, use and installation and fabrication of joints and materials.

PFA 2470 – Plumbing Fixtures, Appliances **2 cr**
Detailed course in plumbing fixtures and appliances used in the industry including use, installation, and code requirements.

PFA 2541 – Medical Gas Certification **2 cr**
Instruction on requirements and competencies for Certification in medical gas installation and repair.

PFA 2550 – Back Flow Testing Cert. **2 cr**
Instruction on code and Utah requirements and competencies for Certification to install and/or repair back flow prevention systems.

PFA 2551 – General Pipe Fitting **2 cr**
This course introduces students to general pipefitting principles and techniques.

PFA 2552 – General Pipe Fitting II **2 cr**
Prereq: PFA 2551. This course will continue study of general pipe fitting principles and techniques and introduce hands on application of the skills and knowledge learned.

PFA 2560 – International Plumbing Code **2 cr**
Detailed course on the International Plumbing Code with any amendments and provisions.

PFA 2570 – Test Prep-Code **2 cr**
New code updates and amendments as needed and practical hands on applications.

PFA 2571 – Test Prep-Math **2 cr**
Applied mathematical conclusions for plumbing and pipefitting code applications and installation.

PFA 2572 – Test Prep-Shop **2 cr**
Safety requirements and detail work in shop environments including tools, materials, and MSDS sheets.

PFA 2573 – Pipe Fitting Test Prep **2 cr**
Course includes applied mathematical conclusions, code and safety requirements related to the pipe fitting industry as preparation for the industry Pipe Fitting Journeyman exam.

PHAR 1010 – Intro. to Pharmacy Practice **2 cr**
Prereq: MATH 0920 or MATH 0950 w/C or better or Accuplacer placement in Math 0990. Students need to apply and qualify for program admission. Course reviews fundamentals of pharmacy practice in variety of settings. Career opportunities, terminology, prescription processing, dosage forms, routes of administration, quality control, technician roles and responsibilities are explored.

PHAR 1020 – Pharmacology **2 cr**
Prereq:MATH 0920 or MATH 0950 w /C or better or Accuplacer placement into MATH 0990. Students need to apply and qualify for program admission. The course covers the nature of drugs, drug absorption, and patient variables that affect drug therapy. Course reviews the classification of drug treatment and reviews generalities of physiology involved with various disease states.

PHAR 1030 – Compounding/Sterile Products **2 cr**
Prereq: PHAR 1010, PHAR 1020, and PHAR 1040. This course reviews the packaging, preservation and storage of compounded drugs. Coated tablets, solutions and suspensions are examined. Sterile procedures with vials and IV bottles and bags are explained.

PHAR 1040 – Calculations and Law **2 cr**
Prereq: MATH 0920 or MATH 0950 w/C grade or better, or Accuplacer placement into MATH 0990. Students need to apply and qualify for program admission. Course covers pharmaceutical math, dosage calculations, and conversion skills needed by technicians. Medical terminology related to pharmacy practice and practical application of state and federal pharmacy law are reviewed.

PHAR 1050 – Pharmacy Computers **2 cr**
Prereq: PHAR 1010 and MA 1100. This course stresses practical applications of the concepts learned in PHAR 1010. Hands-on experience with a computerized system for dispensing prescriptions and preparing third party pay documents is the focus.

PHAR 1065 – Pharmacology III OTC **2 cr**
Prereq: PHAR 1020. Specific classes of over-the-counter medications/products will be discussed with emphasis on knowledge required for making appropriate recommendations for selections and use of these products by consumers.

PHAR 1070 – Fieldwork Preparation **4 cr**
Prereq: PHAR 1010, 1020, 1030, 1040, 1050, 1065; MA 1100. Course places students in on-the-job training in community, retail, hospital practice sites with review of specific tech duties in each site. Top 300 prescription drugs are covered in preparation for PTCB National Certification Exam.

PHAR 1075 – Pharmacy Adjudication **1 cr**
Prereq: MA 1100, PHAR 1010, PHAR 1020, PHAR 1030, PHAR 1040, PHAR 1050, PHAR 1065. This course acquaints students with knowledge of electronic billing and adjudication procedures used in a pharmacy setting. Rejections and third party billing requirements will be covered.

PHIL 1000 – Intro to Philosophy (HU) **3 cr**
This introductory survey of philosophy examines the historical development of Western philosophy and philosophical problems concerning truth, reality, and values. The course introduces philosophical methods of inquiry and argumentation.

PHIL 1120 – Ethics and Moral Problems (ID) **3 cr**
Explores classic moral philosophies (e. g. Mill, Kant, Rawls, Aristotle); and principles and arguments regarding moral dilemmas such as war, death penalty, euthanasia, abortion, poverty, globalization, oppression, animal rights and more.

PHIL 1250 – Resn. & Rat`l Decsn-Makng (IN) 3 cr
Strengthens critical thinking skills through analyzing and evaluating arguments, basic logical framework, Aristotelian logic, beginning logic of sentences, fallacies, probability, statistical reasoning and other forms of inductive argument.

PHIL 2300 – Intro Environmental Ethics(HU) 3 cr
Philosophical analyses of our ethical relationships to the environment, such as moral extensionism, deep ecology, ecofeminism, and environmental justice. Application to classic and contemporary environmental issues.

PHIL 2350 – Phil. of Religion (HU) 3 cr
This course will explicate and evaluate some of the truth-claims made by the major world religions concerning the nature of reality and humanitys relationship to it. It will address such classic topics in Philosophy of Religion as conceived of by the major Western monotheistic traditions (i. e. , Judaism, Christianity, Islam).

PHYS 1010 – Elementary Physics (PS) 3 cr
Conceptual survey course in introductory physics. For non-science majors. Principles of mechanics, heat, light, sound, electricity, magnetism, and modern physics.

PHYS 1040 – Elementary Astronomy (PS) 3 cr
Course includes structure, scale, and behavior of the universe and its underlying laws presented in a conceptual format. It shows examples of formation and workings of the sun and planets. Also teaches earth as a planet and as a reference for reckoning of the celestial sphere.

PHYS 2010 – College Physics I 4 cr
Prereq: MATH 1060 or 1080. Recommended coreq: PHYS 2015. For pre-professional, non-science, non-engineering majors. Newtons laws of motion, gravity, work and energy, solid body motion, fluid motion, vibrations and waves, and thermal physics.

PHYS 2011 – Physics Problem Session 1 cr
Problem session for PHY 2010, based on the lecture class. Though not required, students are strongly encouraged to register for this session.

PHYS 2015 – College Physics Lab I 1 cr
Prereq: MATH 1060 or 1080. Recommended coreq: PHYS 2010. Graded laboratory may be taken concurrently with PHYS 2010.

PHYS 2020 – College Physics II 4 cr
Prereq: PHYS 2010. Recommended coreq: PHYS 2025. Continuation of PHYS 2010. Laws of electricity and magnetism, optics and light, modern atomic theory, nuclear physics, and an overview of relativity.

PHYS 2021 – Physics Problem Session **1 cr**
Problem session for PHYS 2020, based on lecture classes. Though not required, students are strongly encouraged to register for this session.

PHYS 2025 – College Physics Lab II **1 cr**
Prereq: PHYS 2010. Recommended coreq: PHYS 2020. Graded laboratory may be taken concurrently with PHYS 2020.

PHYS 2210 – Physics For Science And Engineering I **4 cr**
Prereq: MATH 1210. Recommended coreq: PHYS 2215. For engineering and science majors. Mechanics and Newtons laws presented with calculus. Gravity, energy, momentum, fluid mechanics, oscillations, waves, and thermodynamics.

PHYS 2211 – Physics Problem Session **1 cr**
Problem session for PHYS 2210, based on lecture classes. Though not required, students are strongly encouraged to register for this session.

PHYS 2215 – Physics for Sci & Eng Lab I **1 cr**
Prereq: MATH 1210. Recommended coreq: PHYS 2210. Graded laboratory may be taken concurrently with PHYS 2210.

PHYS 2220 – Physics For Science And Engineering II **4 cr**
Prereq: PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2225. Continuation of PHYS 2210. Laws of electricity and magnetism, AC circuits, optics and waves.

PHYS 2221 – Physics Problem Session **1 cr**
Problem session for PHYS 2220, based on lecture classes. Though not required, students are strongly encouraged to register for this session.

PHYS 2225 – Physics for Sci & Eng Lab II **1 cr**
Prereq: PHYS 2210 and MATH 1220. Recommended coreq: PHYS 2220. Graded laboratory may be taken concurrently with PHYS 2220.

PHYS 2500 – Introduction To Computer Methods In Physics **2 cr**
Prereq: PHYS 2210. Recommended prereq: PHYS 2220. Computer software and methods commonly used in physics are introduced including the use of numerical, graphical, and symbolic manipulation software to solve common physics problems. Other common applications encountered by the physics professional will be explored.

PHYS 2710 – Introductory Modern Physics For Scientists And Engineers 3 cr
Prereq: MATH 2210, PHYS 2220, PHYS 2225 w/ C grade or better. Recommended prereq: MATH 2250. Introduction to Modern Physics with a focus on relativity, quantum mechanics, and atomic physics. Applications in solid-state physics, bonding in molecules and solids, and nuclear physics.

PILT 1010 – Air Transportation 3 cr
This course includes a survey of the air transportation industry to include airline deregulation, government regulatory agencies, general aviation, and airline management operations and aircraft.

PILT 1040 – Aviation Orientation 1 cr
Students will be introduced to many aspects of the aviation industry, job opportunities, flight program, procedures, and how to finance flight training. Students will be given the opportunity to meet with industry personnel.

PILT 1050 – Aviation History 2 cr
Prereq: PILT 1010 (may be taken concurrently). The history of aviation from the earliest times through the modern jet age will be covered. Students will discover significant aviation developments and how they came about.

PILT 1100 – Private Pilot Ground School 4 cr
Coreq: PILT 1140, 1145, 1110 or 1115, or instructor approval. A study of aviation fundamentals, principals of flight, aircraft & engine operations, weather, navigation & radio communications as required by FAA regulations.Students will be prepared to begin flight training.

PILT 1110 – Priv. Fixed Wing Simulator Lab 1 cr
Coreq: PILT 1100 required for non-flying student enrolled in PILT 1100 or AS Degree Dispatch Track or Aviation Maintenance Track; optional for Continuing Education students. Practical application in a simulation lab to include the information for private pilot flight maneuvers and procedures and regulations for takeoff, cruise, traffic pattern operations, approach, emergencies, and cross-country operations. One hour per week lab time is required.

PILT 1115 – Priv. Rotor Wing Simulator Lab 1 cr
Coreq: PILT 1100 required for nonflying student enrolled in 1100. Practical application in a simulation lab to include private pilot flight maneuvers, procedures and regulations associated with takeoff, cruise, traffic pattern operations, approach, emergencies, and cross-country operations. One hour per week lab time is required.

PILT 1140 – Solo Pilot F-W Cert Lab 1 cr
Prereq: PILT 1100 (may be taken concurrently). Students will begin flight training with an FAA-certified flight instructor. Training will include all skills necessary to fly solo.

PILT 1145 – Solo Pilot R-W Cert Lab **1 cr**

Prereq: PILT 1100 (may be taken concurrently). Students will begin flight training with an FAA-certified flight instructor. Training will include all skills necessary to fly solo in a rotorcraft.

PILT 1150 – Priv Pilot F-W Cert Lab **2 cr**

Prereq: PILT 1140. Students continue to fly with an FAA-certified flight instructor. Training will include all the skills necessary for a private pilots license. The student will fly under Part 141 of the FAA regulations.

PILT 1155 – Priv Pilot R-W Cert Lab **2 cr**

Prereq: PILT 1145. Students will gain basic aeronautical knowledge to safely operate the rotorcraft within FAA guidelines including skills to perform basic maneuvers. Students will fly under Part 141 of the FAA regulations.

PILT 1200 – Multi Engine Add On Fixed Wing Lab **1 cr**

Prereq: PILT 1150 and instructor approval. This course is taught one-on-one with a flight instructor. It includes the practical knowledge to fly a multi engine aircraft safely and to the standards required for FAA certification.

PILT 1250 – Instrument Ground School **3 cr**

Prereq: PILT 1150 or 1155; or instructor approval. Coreq: PILT 1260 or 1265; or instructor approval. A more in-depth study of the purpose, operations, and use of aircraft instrumentation in airport departures, en-route, navigation, & instrument approaches. Student will beprepared to qualify as an instrument-rated pilot.

PILT 1260 – Instr Simulator Fixed-Wing Lab **1 cr**

Prereq: PILT 1150. Coreq: PILT 1250. Practical application in a simulation lab to include the information for instrument flight procedures and regulations for departures, en route, approach and landing. Two hours per week lab time is required.

PILT 1265 – Inst Simulator Rotor-Wing Lab **1 cr**

Prereq: PILT 1155. Coreq: PILT 1250. Practical application in a simulation lab to include the information for instrument flight procedures and regulations for departure, en route, approach and landing. Two hours per week lab time is required.

PILT 1300 – Inst Cert FW Lab **3 cr**

Prereq: PILT 1250 (may be taken concurrently). Flight navigation will emphasize radio navigation as it relates to instrument approaches, en route procedures, and departures. Students will be prepared to take the FAA evaluations. Approximate flight time is 35 hours.

PILT 1315 – Instrument Rotor Wing Certification Lab **3 cr**

Prereq: PILT 1250 (may be taken concurrently). The student will develop the skills, knowledge and aeronautical experience necessary to transition into an Instrument helicopter and to meet the requirements for an instrument rating, as specified in FAA Part 141 with a helicopter class rating.

PILT 1400 – Intro. to Air Traffic Control **3 cr**

This course overviews Air Traffic Control principles, rules, regulations, positions, responsibilities, terms and techniques. Pilots and perspective controllers will gain fundamental insight into the National Airspace System.

PILT 1420 – Aircraft Systems **3 cr**

This is an introductory course to provide pilots with the understanding of aircraft systems, components, and basic operations general to all aircraft. Included will be information about power plants, fuel, and electrical systems.

PILT 1800 – Ground Tutoring Lab **1 cr**

Coreq: PILT 1100, PILT 1250, PILT 2100 or PILT 2210; instructor approval. This course is designed to assist students enrolled in the Professional Pilot program for fixed-wing and/or rotor-wing. The design of this course is to provide enhance focused learning with the concepts and procedures with the academic ground courses and on areas of student deficiency.

PILT 1840 – Simulator Tutoring Lab **1 cr**

Coreq: PILT 1140, 1145, 1150, 1155, 1300, 1315, 2200, 2205, 2220, 2240, 2245, 2300, 2305, 2350, or 2355, or instructor approval. This course is designed to assist students enrolled in the Professional Pilot program for fixed-wing and/or rotor-wing. The design of this course is academic flight labs and on areas of student deficiency.

PILT 1990 – Special Studies **1-5 cr**

Prereq: Instructor permission. Students will plan a special project in an area of study in cooperation with program coordinator or advisor. Students may also be granted credit for a specialized area of training already completed.

PILT 2000 – Aviation CO-OP **1-2 cr**

Prereq: Second-year student, instructor approval. Aviation CO-OP is open to second-year students. This elective class requires special approval prior to registration. See program coordinator for more information.

PILT 2010 – Pre-Graduation Seminar **1 cr**

Prereq: Second-year student. Students will learn techniques for finding, applying for, interviewing and testing for pilot positions. Employers will discuss their hiring requirements, procedures, and what qualities they are expecting from applicants.

PILT 2050 – Aviation Meteorology **3 cr**

Students will learn about atmospheric conditions, weather patterns and observations and their effect on aeronautical applications. Students will learn to read pilot weather reports and obtain pre- and in-flight weather information.

PILT 2100 – Commercial Ground School **3 cr**

Prereq: PILT 1150 or 1155; and PILT 1250. All previous materials & concepts will be reviewed and the development of complex applications. Fundamentals of a professional pilot will be presented to prepare students to complete the FAA commercial rating.

PILT 2150 – ATP Written Exam Prep **1 cr**

Prereq: DISP 1500, PILT 1400, 2050, or instructor approval. Course will overview theories and applications discussed in the 200 hours of dispatcher training. Course is designed to prepare students to take the FAA exam for certification.

PILT 2200 – Cross Country F-W Lab **2 cr**

Prereq: PILT 1300; PILT 2100 (may be taken concurrently). A thorough introduction to Pilot-in-Command duties, day and night VFR cross-country planning and associated flight procedures.

PILT 2205 – Cross Country R-W Lab **2 cr**

Prereq: PILT 1315; PILT 2100 (may be taken concurrently). A thorough introduction to Pilot in Command duties and IFR/night cross-country planning and associated flight procedures.

PILT 2210 – Multi-Engine Ground School **1 cr**

Prereq: PILT 1150. Coreq: PILT 2220. Student will obtain the knowledge, skill, and aeronautic experience necessary to meet the requirements of the multiengine certificate and multi-engine class rating.

PILT 2240 – Comm. Pilt F-W Cert Lab **2 cr**

Prereq: PILT 2200. Course completes the foundation necessary to prepare student for the FAA Part 141 commercial pilot certification examination. Commercial maneuvers in a complex aircraft will be conducted.

PILT 2245 – Comm Pilt R-W Cert Lab **2 cr**

Prereq: PILT 2205. Course will complete the foundation necessary to prepare the student to take FAA Part 141 commercial pilot certification examination.

PILT 2250 – Aerodynamics **3 cr**

Theory and practical application of the laws of physics as they pertain to pilots. An understanding of the elements of aerodynamics affecting the control of the flight of an aircraft will be taught.

PILT 2260 – Commerical Fixed-Wing Category Add-On Lab **2 cr**

Prereq: PILT 2245. The flight lab is designed to broaden the student¿s knowledge and provide the skill necessary to safely fly a fixed wing aircraft. The student will be introduced to and practice commercial maneuvers. The student will be provided instruction and practice necessary to attain theproficiency level required for a category fixed wing add on to a commercial pilot certificate.

PILT 2265 – Commerical Rotor-Wing Category Add-On Lab **2 cr**

Prereq: PILT 2240. The flight lab is designed to broaden the student's knowledge and provide the skill necessary to safely fly a rotorcraft. The student will be introduced to and practice commercial maneuvers. The student will be provided instruction and practice necessary to attain the proficiency level required for a category rotor wing add on to a commercial pilot certificate.

PILT 2300 – CFI/Airplane Lab **2 cr**

Prereq: PILT 2240. Coreq: PILT 2340. Students desiring to instruct other pilot candidates are prepared in the aircraft by a flight instructor. This course will include flight maneuvers required for the FAA CFI certification process.

PILT 2305 – CFI/R-W Lab **2 cr**

Prereq: PILT 2245. Coreq: PILT 2340. Students desiring to instruct other pilot candidates are prepared in the aircraft by a flight instructor. Course will include flight maneuvers required for the FAA CFI certification Appendix F.

PILT 2310 – Human Factors and Safety **3 cr**

Pilot performance affected by training, environment, stress, fatigue, and cockpit design will be discussed. Study of accidents and pilot error as they relate to safety. Illusions, vertigo, and disorientation will be studied.

PILT 2340 – CFI Ground School **3 cr**

Prereq: PILT 2100. Designed to teach learning theories, styles, domains, communication techniques, teaching process, teaching methods, lesson plans, evaluation of student performance and human factors resulting in knowledge required to teach students.

PILT 2350 – Certified Flight Instructor Instrument Fixed Wing Lab **1 cr**
Prereq: PILT 1300 and PILT 2240. Coreq: PILT 2340. This course will prepare the student with the requirements to become FAA certified to instruct in instrument flight.

PILT 2355 – Certified Flight Instructor Instrument Rotor Wing Lab **1 cr**
Prereq: PILT 1315 and PILT 2245. Coreq: PILT 2340. Course prepares flight instructor to become FAA certified to instruct students in rotorcraft for instrument flight. Includes maneuvers required for the FAA CFI/ Instrument Rotorcraft-Helicopter Practical Test Standards.

PILT 2400 – Certified Flight Instructor Multi-Engine Fixed Wing Lab **1 cr**
Prereq: PILT 2240; PILT 2340 (may be taken concurrently). This course will prepare a student with the requirements to become FAA certified to instruct in Multi Engine airacrft.

PILT 2405 – Turbine Transtn Rotor-Wing Lab **1 cr**
Prereq: Instructor approval. Certified flight instructors master Turbine-engine aircraft operation to proficiency level that meets or exceeds the criteria outlined in the turbine-engine rotorcraft manufactures ground and flight procedures handbook.

PILT 2440 – Mountain Flying F-W Lab **1 cr**
Prereq: PILT 1150 and PILT 2050. Students will learn proper techniques for safe mountain flying operations. This course includes practical application under the direction of an experienced FAA Part 141 mountain pilot.

PILT 2445 – Mountain Ops R-W Lab **1 cr**
Prereq: PILT 2050 and PILT 2245. Students will learn proper techniques for safe mountain flying operations. This course includes practical application under the direction of an experienced mountain pilot.

PILT 2455 – Utility Oper R-W Lab **1 cr**
Prereq: PILT 2245. Students will learn proper techniques for safe procedures in specialized areas of rotorcraft operations. This course includes practical applications with external loads under the direction of an experienced utility pilot.

PILT 2460 – Turbo Transition Fixed Wing Lab **1 cr**
Prereq: PILT 1150 & 2220. Students will learn the proper techniques for the use and limitations of high altitude operations, and the aeromedical factors related to changes in pressure and the use of oxygen at high altitude. The course will provide training on turbo charged engines. Preflight & in-flight ops during various phases of flight, and abnormal & emergency flight operations will be covered.

PILT 2465 – Night Vision Goggles Operations RW Lab **2 cr**

Prereq: PILT 2245 & 2310. Students will learn the proper techniques for the use and limitations of night vision goggles during flight operations, and the aeromedical factors related to the use of night vision goggles. The course will further cover preflight operations, in-flight operations during various phases of flight, and abnormal & emergency flight operations while using night vision goggles.

PILT 2470 – Corporate/Business Aviation **2 cr**

This course will acquaint the student with a broad range of topics including corporate and business flight management, type of aircraft used, operational considerations and regulations of the industry.

PILT 2475 – Medium Transition Rotor Wing Lab **2 cr**

Prereq: PILT 2405 & 2455. This course will prepare the student to safely operate a medium classified helicopter aircraft in Visual Flight Rules [VFR] conditions. Specific topics will address medium helicopter normal and emergency procedures, aircraft systems, aircraft performance characteristics, and maneuvers specific to medium aircraft operations.

PILT 2485 – Twin Engine Transition Rotor Wing Lab **2 cr**

Prereq: PILT 2475. This course will prepare the student to safely operate a twin turbine engine medium classified helicopter aircraft in Visual Flight Rules [VFR] conditions. Specific topics will address twin turbine engine medium helicopter normal and emergency procedures, aircraft systems, aircraft performance characteristics, and maneuvers specific to twin engine turbine medium aircraft operations.

PILT 2500 – Single Engine Add On Fixed Wing Lab **1 cr**

Prereq: PILT 2240 or instructor approval. This course is taught one-on-one with a flight instructor. It includes the practical knowledge to fly a single engine aircraft safely and to the standards required for FAA certification.

PLI 1110 – Plumbing I A **5 cr**

Prereq: MATH 0920 or MATH 0950, w/C grade or better; or Accuplacer score of 75 Arithmetic and 40-53 Algebra or PLI 1470. This is an introduction to the plumbing trade, history, plumbing as a career. Safety on the job site and with tools including safe handling and use, applied mathematics for plumbers and the study of water sources and gases are covered.

PLI 1120 – Plumbing I B **5 cr**

Prereq: PLI 1110. This is the study of mathematics for plumbers, first aid and CPR certification and safety on the job site and with tools and equipment. Course of study includes plumbing fixtures, faucets, valves and blueprint reading.

PLI 1210 – Plumbing II A **5 cr**
Prereq: PLI 1120. Installation practices, introduction to blueprint reading and applied mathematics for plumbers. Properties of water, water pressure, safety on the job site and tools and equipment scaffolding and safety above ground.

PLI 1220 – Plumbing II B **5 cr**
Prereq: PLI 1210. This is the study of installation practices and applied mathematics for plumbers. Theory and practice of seals, traps, air chambers, manometers and u-tubes will be covered.

PLI 1470 – Math for the Trades (QS) **5 cr**
This is a customized plumbers course in applied mathematics for the trades including algebraic and trigonometric functions.

PLI 2000 – Plumbing CO-OP **3-6 cr**
Prereq: Instructor approval. College credit for experience on the job site. Arranged in advance. Requirements are determined by the employer.

PLI 2310 – Plumbing III A **5 cr**
Prereq: PLI 1220. This is the study of fixtures, testing of systems, measurements and grease traps. Intense study of the applicable code and continued mathematics for plumbers will be taught.

PLI 2320 – Plumbing III B **5 cr**
Prereq: PLI 2310. This is an introduction to water heaters and appliance venting, fuel gas piping and control devices. Applied mathematics for plumbers, study of the applicable codes, roof drains and blueprint readings will be covered.

PLI 2410 – Plumbing IV A **5 cr**
Prereq: PLI 2320. Installation practices, repair and service work. Blueprint reading, indirect water systems and special waste systems. Hydraulic theory, heating systems and their practical application.

PLI 2420 – Plumbing IV B **5 cr**
Prereq: PLI 2410. This is the continuation of blueprint reading, gas appliance venting and piping, practical applied application and estimating. Study of the applicable code and review will be included.

PLI 2510 – Plumbing Labs **5 cr**
Special course requested by the Utah State Licensing Board for applicant plumbers to review lab projects prior to retaking practical journeymans examination.

PLI 2990 – Plumbing Special Studies **5 cr**
Special course requested by the Utah State Licensing Board for applicant plumbers to review lab projects prior to retaking practical journeymans examination.

PLI 2991 – Plumbing Special Projects II **5 cr**

Special course requested by the Utah State Licensing Board for applicant plumbers to review theory and code issues prior to retaking the written portion of the journeymans examination.

PLS 1010 – Introduction to Law **3 cr**

Introductory course into the study of law and the legal system. Students will be introduced to legal vocabulary terms, critical thinking and legal reasoning and analysis. Course will also overview most substantive areas of law. Paralegal majors must complete this course with a grade of B or better.

PLS 1020 – Intro to Civil Litigation **3 cr**

This course overviews the federal and state civil court systems. Students will examine civil procedural rules and stages of litigation. The role of the paralegal will be examined at each stage of the litigation process. Paralegal majors must complete this course with a grade of C or better.

PLS 1030 – Intro to Research & Writing **3 cr**

Prereq: Eng 1010. Students learn and apply basic research principles to fact situations encountered in a law office. Students will gain familiarity with research tools and methodologies including preparing simple office memoranda and citation style. Paralegal majors must complete this course with a grade of B or better.

PLS 1050 – Legal Research & Writing II **3 cr**

Prereq: PLS 1020 and PLS 1030. Continues and builds on the study of research skills begun in PLS 1030. Emphasizes legal writing aspect of research and writing: appropriate formats, styles and analysis. Paralegal majors must complete this course with a grade of B or better.

PLS 1070 – Criminal Law & Procedure **3 cr**

Overview of criminal law and criminal procedure topics such as elements of crime, mental states, defenses to crimes, constitutional and statutory limitations on prosecutions, the trial process, sentencing and appellate issues, the trial process, sentencing and appellate issues. Paralegal majors must complete this course with a grade of C or better.

PLS 1080 – Contracts **3 cr**

Class examines the elements of basic contracts. It covers sales of goods, sales discharge and damages. Students will analyze various types of contracts and learn to draft a simple contract. Paralegal majors choosing this elective must complete the course with a grade of C or better.

PLS 1100 – Bankruptcy and Collections **3 cr**

This course examines the collection of debts and the discharge of certain financial obligations in bankruptcy, including Chapter 7, 11 and 13 filings. It includes basic collections, bankruptcy law, pleadings and schedules. Paralegal majors choosing this elective must complete the course with a grade of C or better.

PLS 1110 – Wills, Probate and Estates **3 cr**

Course covers preparation of wills, disposition of property other than by will, probate administration and estate litigation. Estate planning and functions of paralegals in this legal area discussed. Paralegal majors choosing this elective must complete the course with a grade of C or better.

PLS 1120 – Paralegal Proc. I **3 cr**

Course covers principles and practice of legal interviewing and fact investigation. Students practice initial client interviews, field investigation, follow up interviews and develop effective human relations and communication skills. Paralegal majors must complete this course with a grade of B or better.

PLS 1130 – Administrative Law **3 cr**

This survey class covers variety of paralegal opportunities, duties and tasks available in the active practice of government offices and agencies. Paralegal majors must complete this course with a grade of C or better.

PLS 1140 – Environmental Law **3 cr**

Students will study the legal aspects of environmental law: issues such as EPA regulations, endangered species, mining, oil and gas leases, clean air and water. Paralegal majors must complete this course with a grade of C or better.

PLS 1160 – Immigration Law and Procedure **3 cr**

Overview of immigration law and procedures. Will focus on practical skills, relevant legal terms, unique immigration court structure, eligibility requirements for citizenship and how to assist in the preparation of required immigration documents.

PLS 1170 – Family Law **3 cr**

The class focuses on Utah statutes and case law governing relationships between husband and wife and their relationship with their offspring. Also basic elements of marriage, divorce, alimony, property distribution and child custody. Paralegal majors must complete this course with a grade of C or better.

PLS 1180 – Evidence **3 cr**

Prereq: PLS 1070. This course examines the Utah Rules of Evidence. Students will also apprehend differences in the Federal Rules. The course demonstrates the applicability of the rules as they pertain to the in-court admission of evidence and testimony. Paralegal majors must complete this course with a grade of C or better.

PLS 1190 – Constitutional Law **3 cr**

Course exposes students to the history and substance of the Constitution and the Bill of Rights. Students will discover the role of the Constitution in our legal system and government. The role of the state constitution will be reviewed. Paralegal majors must complete this course with a grade of C or better.

PLS 1300 – Torts **3 cr**

This is an overview of tort law. The course includes intentional torts, negligence and specialized torts such as products liability, medical malpractice, wrongful eath and class actions. Paralegal majors must complete this course with a grade of C or better.

PLS 1530 – Real Estate Law **3 cr**

Study of principles of title, ownership and transfer, joint tenants and tenants in common. Documents of conveyance, security instruments, notes and contracts, liens, foreclosures and redemptions, escrow and closing, public records, and taxes. Paralegal majors must complete this course with a grade of C or better.

PLS 2000 – Paralegal CO-OP **1-6 cr**

Prereq: PLS 1050 and Program Approval. Students participate in supervised work experience in a business, industrial or government environment related to paralegals. Credit awarded for successful completion of specific learning objectives that provide new learning on the job. Paralegal majors must complete this course with a grade of C or better.

PLS 2010 – Computer Essentials Paralegals **3 cr**

Prereq: CIS 1020 or Challenge Exam. This class introduces students to computer programs and databases involved in litigation and case management. The latest in technology for the legal community will be explored.

PLS 2050 – Legal Research & Writing III **3 cr**

Prereq: PLS 1050. This course is designed to bring the research expertise gleaned in R and W I together with the writing abilities learned in R and W II. Course provides practical opportunity and experience preparing persuasive legal memoranda. Paralegal majors must complete this course with a grade of C or better.

PLS 2070 – Mediation **3 cr**

Prereq: Variable, contact department. Mediation, an alternative to litigation, is the conflict resolution process that permits parties to satisfactorily resolve the dispute. Students learn the art and techniques of mediation through the role of the mediator. Paralegal majors must complete this course with a grade of C or better.

PLS 2090 – Paralegal Practicum **3 cr**

Prereq: PLS 1010, 1030, 1050, 1120, 2010. Course provides students with practical experience working on actual research assignments and projects provided through interaction in the local community. Students will experience legal work both as individuals and members of a team. Paralegal majors choosing this course must complete it with a grade of C or better.

PLS 2190 – Ethics **3 cr**

Prereq: 12 hours of PLS classes. Course explores the ethical standards of attorneys and paralegals. Topics include the unauthorized practice of law, confidentiality and professionalism. The disciplinary process is also discussed. Paralegal majors must complete this course with a grade of C or better.

PLS 2200 – Legal Portfolio **3 cr**

Prereq: PLS 1050. Students will refine or prepare a cover letter, resume and writing sample to assist in preparing a portfolio for a job search. Current job markets, growth areas and other non traditional job opportunities also will be examined. Paralegal majors choosing this course must complete it with a grade of C or better.

PLS 2250 – Securities **3 cr**

Prereq: PLS 1010. Federal and State statutes governing the offering and sale of securities, notes, stocks, bonds and debentures will be covered. Paralegal majors must complete this course with a grade of C or better.

PLS 2260 – Hollywood and the Law **3 cr**

Prereq: Variable, contact department. Course designed as an enjoyable examination of principles of law as portrayed by Hollywood. Students will study and discuss movies about issues of procedures and constitutional significance. Course designed for the short summer session. Paralegal majors must complete this course with a grade of C or better.

PLS 2990 – Special Studies **3 cr**

Prereq: Variable, contact department. Course focus is on special projects and/or current topics arranged as needed. Course offers students actual paralegal experience in variety of topics available with assistance from instructors specializing in subject area presented. Paralegal majors must complete this class with a grade of C or better.

POLS 1100 – US Government & Politics (AI) **3 cr**

Prereq: placement into ENGL 1010 or appropriate Accuplacer score. This course surveys the institutions and practices of the U.S. national government with emphasis placed on political behavior and social conflict.

POLS 1110 – Intro State/Local Government **3 cr**

This is an overview of state and local political systems with an emphasis on the constitutional underpinnings, major institutions, practices and public policies at the state and local level.

POLS 1900 – Special Studies **1-2 cr**

Prereq: Instructor approval. Under the instructors supervision, an individualized curriculum is jointly developed and followed.

POLS 2000 – Internship **2-4 cr**

Prereq: Instructor approval. Students undertake a supervised hands-on experience in the public sector such as election, legislative, and administrative processes.

POLS 2020 – Legislative Process **3 cr**

Recommeded prerequisite: American Institutions course, preferably POLS 1100. This course is designed to acquaint students with the dynamics of decision making in the legislative arena. The major focus of the course will be on Congress and its interaction with the governmental and nongovernmental entities and how they influence and shape the policy process.

POLS 2070 – Diversity & US Politics(SS,DV) **3 cr**

Introductory course examines perspectives of long-silenced voices in US politics. It studies racism, sexism, discrimination, inequitable treatment, forced inclusion and exclusion, and barriers to economic and political participation.

POLS 2100 – Intro Internat. Politics (SS) **3 cr**

This is an introduction to the basic concepts, processes and relationships in the international political arena, with particular emphasis on conflict and cooperation between and among nations.

POLS 2200 – Intro/Comparative Politics(SS) **3 cr**

This course analyzes how historical and/or contemporary political systems differ in terms of institutions, public policies, and political practices.

POLS 2300 – Political Ideologies (SS) **3 cr**

This course surveys significant political ideologies, documenting their present and past relevance to society. Emphasis is placed on conservatism, fascism, liberalism, and socialism.

POLS 2500 – Peace & Conflict:Domestic (SS) **3 cr**

Blended Service-Learning Course uses a political science approach to experiencing & analyzing local, regional and national [U.S.] conflicts. Course requires students to experience, describe, and explain peace and conflict at the domestic level of analysis. This course will required extensive reading and writing.

POLS 2700 – Model United Nations [MUN](SS) **3 cr**

Examination of the purposes, roles, structure and functions of the United Nations. Prepares students to participate in a Model UN competition.

POLS 2900 – Special Topics **1-3 cr**

Prereq: Instructor approval. This is a course designed by faculty which allows students to explore specific interest areas of political science in a classroom setting.

POLS 2950 – Leadership **2 cr**

This multi-disciplinary course will focus on leadership and management skills, including communication, motivation, problem solving, conflict management and goal setting with an emphasis on personal growth.

POR 1010 – Beginning Portuguese I **5 cr**

First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Portuguese culture. Lab attendance is required.

POR 1020 – Beginning Portuguese II (LN) **5 cr**

Prereq: POR 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Portuguese culture. Lab attendance is required.

POR 1300 – Beginning Conversation **1 cr**

Prereq: POR 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

POR 1900 – Special Studies in Portuguese **1-2 cr**

Prereq: Instructor approval. In this course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

POR 2010 – Intermediate Portuguese I **4 cr**

Prereq: POR 1020 or instructor approval. Second-year Portuguese courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

POR 2020 – Intermediate Portuguese II **4 cr**

Prereq: POR 1020 or instructor approval. Second-year Portuguese courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

POR 2300 – Conversation **1 cr**

Prereq: POR 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

POR 2700 – Introduction to Literature **3 cr**

Prereq: POR 2010 or POR 2020. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

POR 2710 – Intro to Portuguese Film **3 cr**

Prereq: POR 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in Portuguese. Lab attendance required.

POR 2900 – Special Topics in Portuguese **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in Portuguese language and culture. Lab attendance required. May be repeated for credit.

PSY 1010 – General Psychology (SS) **3 cr**

A basic survey of psychology examining the historical and current foundations supporting the scientific study of mind and behavior.

PSY 1100 – Lifespan Human Growth and Development (SS) **3 cr**

A multidimensional approach to studying human growth and development across the lifespan involving theory, research, and practical applications.

PSY 1210 – Personal Growth & Development **3 cr**

Introduction to the psychology of adjustment which combines research-based theory with personal application. Explores techniques for better adjustment and understanding effects of personal behavior on others.

PSY 1900 – Special Studies **1-2 cr**

Prereq: PSY 1010 or instructor approval. Under an instructors supervision, students develop and follow an individualized curriculum.

PSY 2000 – Psychology CO-OP Education **2-4 cr**

Prereq: PSY 1010, Sophomore standing, 2.0 GPA and study related employment. Supervised work experience with specific learning objectives in a business, industrial or government environment to provide learning on the job and in the program major.

PSY 2010 – Psy as a Science & Profession **3 cr**

Prereq: PSY 1010 and ENGL 1010. Students learn and develop skills in critical thinking and critical analysis of basic research in psychology, information gathering in psychological research, basic APA format for writing and references, and course and career options for pursuing the field of psychology.

PSY 2250 – Personality Theory **3 cr**

Prereq: ENGL 1010 and PSY 1010. An introduction to the psychological study of personality which focuses on personality theory, personality assessment techniques and personality change with emphasis on developing a scientific approach to understanding self.

PSY 2300 – Abnormal Psychology **3 cr**

Prereq: ENGL 1010 and PSY 1010. An introduction to the psychological science of mental disorders including problems of emotion, mood, mind, schizophrenia and personality disorders. Diagnosis and treatment will also be considered.

PSY 2400 – Eco-Psychology **3 cr**

Prereq: PSY 1010. Blended class, online and field school combination. Ecopsychology is the interaction of self and the environment. Examines how the environment affects us and how we impact the environment.

PSY 2500 – Social Psychology **3 cr**

Prereq: ENGL 1010 and PSY 1010 or SOC 1010. Focuses on understanding the behavior of individuals in social contexts with emphasis on how and why individuals behave, think, and feel as they do in social situations.

PSY 2600 – Psych-Race,Class,Gender(SS,DV) **3 cr**

Prereq: PSY 2500. Race, class, gender, and sexual orientation are studied from a psychological perspective to examine how they are embedded in daily life; inform our lives and the lives of others; and the differences in power and privilege that exist.

PSY 2710 – Brain and Behavior **3 cr**

Prereq: PSY 1010. This course examines the biology of behavior, emphasizing underlying neural mechanisms, the interaction between genes and environment, and evolutionary pressures that have shaped the mind.

PSY 2900 – Special Topics in Psychology **1-3 cr**

Prereq: PSY 1010 and instructor approval. A faculty designed course which allow students to explore specific areas of psychological interest in a classroom setting.

PTA 1010 – Intro to Physical Therapy **2 cr**

Students will explore the field of therapy including an overview of therapy treatments in different health care settings and pertinent legal and ethical considerations. Students will participate in clinical observation.

PTA 1500 – Practice Issues for the PTA **2 cr**
Prereq: PTA 1010. The role of the PTA in various health care settings will be addressed as well as the organization of health care and its methods of delivery, and basic research principles.

PTA 2010 – Functional Anatomy **3 cr**
Prereq: PTA 1500 and acceptance into technical program. Students will explore neuro-musculo-skeletal anatomy in depth and relate to functional activity. Topics include neuroanatomy structure and function of the musculo-skeletal system, and components of human motion.

PTA 2015 – Functional Anatomy Lab **1 cr**
Prereq: PTA 1500 and admission into technical curriculum. Students will palpate musculoskeletal anatomy in depth and relate it to data collection and functional activity.

PTA 2100 – Patient Care Skills **2 cr**
Prereq: Admission into technical portion of program. Students learn the application of patient care skills, body mechanics, principles and use of mobility devices, and medical documentation.

PTA 2110 – Patient Care Skills Lab **1 cr**
Prereq: Admission into the core curriculum of program. Students practice patient care skills, body mechanics, transfers, use of mobility devices and medical documentation.

PTA 2200 – Therapeutic Modalities **2 cr**
Prereq: Admission into technical portion of program. Students learn the theory of therapeutic modalities using heat, cold, radiation, and electricity.

PTA 2210 – Therapeutic Modalities Lab **2 cr**
Prereq: Admission into technical portion of program. Students practice applications of therapeutic modalities using heat, cold, radiation, and electricity.

PTA 2300 – Principles of Therapeutic Exer **2 cr**
Prereq: Admission into technical portion of program. Students learn the principles and techniques of therapeutic exercise including use of specialized equipment.

PTA 2310 – Therapeutic Exercise Lab **2 cr**
Prereq: Admission into the core curriculum of the program. Students practice techniques of therapeutic exercise, including use of specialized equipment.

PTA 2350 – Data Collection for the PTA **2 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students develop competency in data collection skills including manual muscle testing, range of motion assessment, evaluation of posture and gait, balance assessment, and selected special tests.

PTA 2360 – Data Collection for PTA Lab **2 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students learn how to implement data collection skills including manual muscle testing, range of motion assessment, evaluation of posture and gait, balance assessment, and selected special tests.

PTA 2400 – Musculoskeletal Disorders **3 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students are introduced to musculoskeletal pathology and the development/implementation of clinical treatment plans for these disorders.

PTA 2410 – Musculoskeletal Disorders Lab **1 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students develop treatment skills for post-surgical, orthopedic, industrial and amputation clients.

PTA 2450 – Neurological Disorders **2 cr**
Prereq: PTA 2010 and PTA 2300. Students will learn principles and components of physical therapy procedures for the neurological patient.

PTA 2460 – Neurological Disorders Lab **2 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students implement physical therapy techniques and design treatments for selected neurological disorders.

PTA 2510 – PT for Specific Clientele **3 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students learn principles and components of physical therapy interventions in the acute care and workplace settings and for womens and mens conditions, cardiovascular, pulmonary and pediatric disorders.

PTA 2520 – PT for Specific Clientele Lab **1 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students implement principles and components of physical therapy interventions in the acute care and workplace settings and for womens and mens conditions, cardiovascular, pulmonary and pediatric disorders.

PTA 2530 – Gerontology **2 cr**
Prereq: PTA 2300 and PTA 2360. Students will learn the sociological, psychological, and physical facets of the aging process. Selected treatment approaches unique to an aging population will be presented and discussed.

PTA 2550 – Rehabilitation Psychology **2 cr**
Prereq: PTA 2300, PTA 2400 and PTA 2600. Students will learn the psychological aspects of the rehabilitation process. Topics include health locus of control, learned helplessness, self-efficacy and the biopsychosocial model of health and illness.

PTA 2600 – Clinical Experience I **4 cr**
Prereq: Acceptance into the PTA program. Students will participate in supervised clinical experience in physical therapy department affiliated with the College.

PTA 2700 – Clinical Internship I **6 cr**
Prereq: Acceptance into the PTA program. Students will complete an internship including practical Performance and application of physical therapy procedures and techniques under supervision in selected physical therapy clinical settings.

PTA 2710 – Clinical Internship II **6 cr**
Prereq: Acceptance into the PTA program; PTA 2700. Students will complete a culminating internship demonstrating practical performance and application of physical therapy procedures and techniques under supervision in selected physical therapy clinical settings.

PTA 2750 – Seminar for the PTA **1 cr**
Prereq: Completion of prior semester courses per established curriculum plan. Students will integrate principles of academic learning with clinical practice and presentation of current trends and issues in PT, along with professional journal reviews, and development of employment skills.

PTA 2850 – Special Topics for PTAs **2 cr**
Prereq: Instructor approval. This is a special studies course to prepare students for the national licensing examination.

PTA 2950 – Sports Physical Therapy **2 cr**
Prereq: Acceptance into technical portion of program. Students learn principles of injury prevention and therapeutic rehabilitation applied to the practice of sport and competitive physical activity.

PTA 2960 – PT and OT in the Work Place **2 cr**
Prereq: Acceptance into program. Students learn principles of work hardening, work conditioning, industrial rehabilitation as well as work place safety, injury, prevention ergonomics, and the ADA.

RADS 1010 – Intro to Radiologic Technology **2 cr**
Prereq: Needed for admission into the program. Exploration into the field of radiography and its role in health care delivery. Fundamental radiography concepts covered include radiation protection, medical terminology, ethics, professional development and hospital operations.

RADS 1020 – Rad. Anatomy & Procedures I **4 cr**
Prereq: Admission to the program. This course covers anatomy and radiographic procedures. The upper extremity, chest and abdomen are included. The shoulder girdle and lower extremity are also covered. Builds skill to help obtain radiographs in those units.

RADS 1030 – Radiographic Imaging I **2 cr**

Prereq: Admission to the program. Topics: atomic structure, imaging equipment, grids, beam restriction, film, screens, and processing. Properties of x-rays and radiographic quality to include density, contrast, detail, and distortion.

RADS 1040 – Clinical Education I **4 cr**

Prereq: Admission to the program. Students attend a clinical setting 24 hours each week. Initial skills required of a radiographer are established. Patient care, upper limb, chest and abdomen and shoulder girdle covered. Activities are guided by a competency-based system.

RADS 1050 – Patient Care **2 cr**

Prereq: Admission to the program. Covers the role of a radiographer as patient care provider. Topics include; standard precautions, immobilization, lifting, emergencies, vital signs, oxygen and suction, asepsis and infection control, history taking, communication and patient education.

RADS 1110 – Radiation Protection **2 cr**

Prereq: Admission to the program. Radiation protection concepts to include biological effects on living systems, radiation units, interactions with matter and radiation exposure limits. Radiation practices and standards for patients and personnel.

RADS 1120 – Rad. Anatomy & Procedures II **4 cr**

Prereq: Admission to the program. This course covers anatony and procedures of the spine, thorax, skull, sinuses and facial bones. In addition densitomery and pediatric imaging are taught.

RADS 1130 – Radiographic Imaging II **4 cr**

Prereq: Admission to the program. Students will study electricity, electromagnetism, x-ray production, equipment, AEC, x-ray tube, and digital imaging. They also learn how to alter exposure factors to control density, contrast, detail and distortion.

RADS 1140 – Clinical Education II **4 cr**

Prereq: Admission to the program. Students attend a clinical setting 24 hours each week. They continue to expand their patient care skills. Emphasis is on performing procedures independently. Activities are guided by a competency-based system.

RADS 1220 – Rad. Anatomy & Procedures III **2 cr**

Prereq: Admission to the program. This course covers anatomy and procedures of the gastro-intestinal and genito-urinary systems.

RADS 1240 – Clinical Education III **3 cr**

Prereq: Admission to the program. Students attend a clinical setting 24 hours each week. Emphasis is on increased accuracy and confidence. GI and GU exam are emphasized. Activities are guided by a competency-based system.

RADS 2010 – Image Analysis **2 cr**

Prereq: Admission to the program. An advanced course that requires students to analyze all technical aspects of radiographic image production and use problem-solving skills to determine proper corrections required for unacceptable radiographs.

RADS 2020 – Rad. Anatomy & Procedures IV **2 cr**

Prereq: Admission to the program. Procedures of an advanced and specialized nature covered. Includes mobile, trauma and operating room radiography. Circulatory system anatomy and procedures also covered.

RADS 2030 – Radiographic Imaging III **2 cr**

Prereq: Admission to the program. The course includes lecture and discussion of imaging principles relevant to fluoroscopy. Explores the theory and practice of quality assurance to include the development of a quality assurance program and exploration of the imaging in CT, MRI, Ultrasound, Mammography, CIT, Nuc Med, PET and Radiation Therapy.

RADS 2040 – Clinical Education IV **4 cr**

Prereq: Admission to the program. Students attend a clinical setting 24 hours each week. Emphasis is on increased problem-solving skills and accurate exposure factor selection. Activities are guided by a competency-based system.

RADS 2050 – Advanced Patient Care **2 cr**

Prereq: Admission to the program. Covers advanced skills required while caring for a patient. Topics include ethics and law, contrast media and pharmacology. Also includes venipuncture and care for age-specific patient.

RADS 2060 – Radiobiology **2 cr**

Prereq: Admission to the program. Interactions of radiation with living systems. Radiation effects on molecules and organisms. Factors affecting biological response. Initial and long-term effects of radiation exposure.

RADS 2100 – Comprehensive Radiology **3 cr**

Prereq: Admission to the program. Students will review all past program courses to prepare them to take and pass the ARRT certification examination in Radiography.

RADS 2110 – Radiographic Pathology **2 cr**

Prereq:Admission to the program. Students learn causes, signs and syptoms of diseases. Students will identiy pathology on radiographs. Course includes how diseases impact performance of exms. Technical factors and patient care issues are dicussed.

RADS 2120 – Sectional Anatomy **2 cr**

Prereq: Admission to the program. Covers understanding and identification of abdomen, pelvis, head, neck, and chest anatomy as seen on sagittal, coronal, axial and other images using the modalities of CT and MRI. Basic usage and knowledge of CT instrumentation and function will also be introduced.

RADS 2140 – Clinical Education V **4 cr**

Prereq: Admission to the program. Students attend a clinical setting 24 hours a week. Emphasis on performing with accuracy and efficiency. Students gain entry level skills required for work force. Activities are guided by a competency-based system.

RDG 0900 – Developmental Reading **5 cr**

Prereq: ESL 1010 AND ESL 1020, both w/C grade or better OR Accuplacer reading score between 40-57. Designed to help students develop confidence in their reading abilities. Enables students to discover basics of reading process through critical thinking, reading, writing, and speaking.

RDG 0990 – Advanced Reading **3 cr**

Prereq: RDG 0900 w/C grade or better, or appropriate Accuplacer score. Whole language format that develops critical thinking and comprehension skills. Prepares students to become full participants in courses requiring college-level reading.

RFA 1250 – Refrigeration Basic Electrical **2 cr**

Basic principles and applications of electricity common to HVACR service technicians including troubleshooting and repair techniques.

RFA 2300 – Electrical Controls **2 cr**

This course covers equipment, tools, and codes associated with electrical components of refrigeration.

RFA 2310 – Steam Systems **2 cr**

Prereq: Instructor approval. Electric pumps and steam systems and refrigeration will be covered.

RFA 2350 – Refrigeration I **2 cr**

History of pipe trades, care and use of tools, basic instruction in steam fitter/pipefitter, math rigging, signaling, blueprint reading and interpretation will be covered.

RFA 2400 – Air Conditioning I **2 cr**

This course introduces refrigerant principles and the basics of air-conditioning.

RFA 2410 – Troubleshooting **2 cr**
Prereq: Instructor approval. Students will learn pipe drafting, hydronic systems two and air-conditioning.

RFA 2450 – Chillers **2 cr**
Theory and practical application of chillers including components, pumps, safety, and inspection.

RFA 2500 – Shop Projects **2 cr**
This course allows students to complete hands-on projects in a supervised shop environment.

RFA 2510 – Evaporators, Compressors, Cond **2 cr**
Prereq: Approval Electric controls, introduction to industrial pipe fitting and power piping and introduction to start, test and balance will be taught.

RFA 2520 – Refrigerant Controls **2 cr**
Prereq: Instructor approval. Start, test and balance, instrumentation and process controls, builders level and transit study will be examined. .

RFA 2530 – Start, Test and Balance I **2 cr**
The study of procedures for new or repaired equipment start-up, testing of all equipment phases, and balancing a system for proper performance.

RFA 2540 – Start, Test and Balance II **2 cr**
Instruction in the physical preparation and start up of a new system including testing and balancing of all phases of the equipment performance.

RFA 2560 – Instrumentation, Process Cntrl **2 cr**
Theory and hands on application of control and measurement instruments and process control including computer oriented control systems.

RFA 2570 – Pneumatic Controls **2 cr**
Theory and hands on application study of pneumatic controls, materials for installation, trouble-shooting, and repair.

RFA 2580 – Air Conditioning II **2 cr**
Advanced theory and hands on application of air conditioning principles, air handling equipment, installation, repair, and trouble-shooting.

RFA 2590 – Refrigeration II **2 cr**
Advanced theory and hands on application of refrigeration principles, equipment, installation, repair, troubleshooting and advanced specialty equipment needs and requirements.

RFA 2600 – Adv. Electricity/Electronics **2 cr**
Advanced study of electrical principles and applications to refrigeration systems and electronic controls including installation, repair, and trouble-shooting.

RFA 2610 – Test Prep-Refrigeration **2 cr**
This course is to assist the Apprentice in preparation for Journeyman exam. It is a hands-on practical application course of materials and equipment used in the trade.

RUS 1010 – Beginning Russian I **5 cr**
First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Russian culture. Lab attendance is required.

RUS 1020 – Beginning Russian II (LN) **5 cr**
Prereq: RUS 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Russian culture. Lab attendance is required.

RUS 1300 – Beginning Conversation **1 cr**
Prereq: RUS 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

RUS 1900 – Special Studies in Russian **1-3 cr**
Prereq: Instructor approval. In this course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

RUS 2010 – Intermediate Russian I **4 cr**
Prereq: RUS 1020 or instructor approval. Second-year Russian courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

RUS 2020 – Intermediate Russian II **4 cr**
Prereq: RUS 2010 or instructor approval. Second-year Russian courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

RUS 2300 – Conversation **1 cr**

Prereq: RUS 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

RUS 2700 – Introduction to Literature **3 cr**

Prereq: RUS 2010 or RUS 2020. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

RUS 2710 – Intro to Russian Film **3 cr**

Prereq: RUS 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in Russian. Lab attendance required.

RUS 2900 – Special Topics in Russian **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in Russian language and culture. Lab attendance required. May be repeated for credit.

SAM 1010 – Beginning Samoan I **5 cr**

First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Samoan culture. Lab attendance is required.

SAM 1020 – Beginning Samoan II (LN) **5 cr**

Prereq: SAM 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Samoan culture. Lab attendance is required.

SAM 1300 – Beginning Conversation **1 cr**

Prereq: SAM 1010 or instructor approval. Beginning Samoan Conversation is intended to practice previously-acquired conversation skills to increase speaking ability and vocabulary. Attendance in lab is required. Course may be repeated for credit.

SAM 1900 – Special Studies in Samoan **1-2 cr**

Prereq: Instructor approval. Students plan areas of study, Service Learning or travel and work with the instructor on an individual basis. Topics may be in language or culture. Lab may be required. May be repeated for credit.

SAM 2300 – Intermediate Conversation **1 cr**

Prereq: SAM 1020 or instructor approval. Intermediate Samoan Conversation is intended to practice previously-acquired conversation skills to increase speaking ability and vocabulary. Attendance in lab is required. Course may be repeated for credit.

SHA 1110 – Stagehands 1 A **5 cr**

This course provides the basic foundation for stagecraft with the basics of stage and scenic carpentry, electrical theory and stage electrics, properties, and on-the-job protocols.

SHA 1120 – Stagehands 1 B **5 cr**

Theatre history, stagecraft responsibilities and proper handling and storage of set pieces, and wardrobe.

SHA 1210 – Stagehands II A **5 cr**

Theory and practical application including lamps and cables, Trade Shows set-up and maintenance. Also costume dressing and management.

SHA 1220 – Stagehands II B **5 cr**

Theory and hands-on application for sound, lighting boards, forklift operation and certification, and construction and repair of stock scenery pieces.

SHA 2000 – Stagehands CO-OP **2-4 cr**

College credit for experience on the job site. Arranged in advance. Requirements are determined by the employer.

SHA 2310 – Stagehands III A **5 cr**

Theory and practical hands-on application of stage carpentry and electrical, and instruction in Trade Show Electrical.

SHA 2320 – Stagehands III B **5 cr**

High lift and trade show rigging, audio-visual equipment and software, and an introduction to work within the film and movie industry.

SOC 1010 – Intro to Sociology (SS) **3 cr**

The nature and scope of sociology, including systematic treatment of group life, social institutions, social problems, social change and social control.

SOC 1020 – Social Problems (ID) **3 cr**

Social, political and economic aspects of specific problems in modern societies including famine, population, ecological disasters, war and terrorism, poverty, race/ethnic and gender inequality, family, crime, health and illness.

SOC 1900 – Independent Studies **1-3 cr**
Prereq: SOC 1010. Under the instructors supervision, students develop and follow an individualized curriculum.

SOC 2370 – Gender & U.S. Society (SS,DV) **3 cr**
Prereq: ENGL 1010 or placement into ENGL 2010 or higher. Social construction of gender; social institutions and gender inequalities; connections and disconnects between biological sex and gender; theories of gender socialization; impact of gender on problems in relationships and communication.

SOC 2400 – IntermountainWest & People(ID) **3 cr**
A basic study of the region known as the Intermountain West, its land and its people. It is a holistic approach including its geography, history, culture, and social institutions.

SOC 2600 – Marriage and Family **3 cr**
This class examines the nature of marriage and family as an institution in society. Emphasis placed on the effects of modern social structures and cultural values on interpersonal relationships and family life.

SOC 2630 – Race and Ethnicity (SS,DV) **3 cr**
Role of ethnic and racial minorities in the United States and the processes which arise when groups of people who differ come into contact with each other will be studied.

SOC 2680 – Sociology of Aging **3 cr**
Prereq: SOC 1010. This class introduces problems concerning the social role of the aged in industrial societies and the general field of aging. Biological, psychological, and sociological aspects of aging will be emphasized.

SOC 2900 – Special Topics **1-3 cr**
Prereq: SOC 1010. This is a course designed by faculty which allows students to explore specific interests in areas of sociology in a classroom setting.

SPN 1010 – Beginning Spanish I **5 cr**
First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Spanish culture. Lab attendance is required.

SPN 1020 – Beginning Spanish II (LN) **5 cr**
Prereq: SPN 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Hispanic culture. Lab attendance is required.

SPN 1300 – Beginning Conversation **1 cr**

Prereq: SPN 1010 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group work and presentations. Lab attendance may be required. May be repeated for credit.

SPN 1900 – Special Studies in Spanish **1-2 cr**

Prereq: Instructor approval. In this course in language and culture, students plan areas of study, Service Learning or travel and work with an instructor on an individual basis. Some work may be done in groups. Lab may be required. May be repeated for credit.

SPN 2010 – Intermediate Spanish I **4 cr**

Prereq: SPN 1020 or instructor approval. Second-year Spanish courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

SPN 2020 – Intermediate Spanish II **4 cr**

Prereq: SPN 2010 or instructor approval. Second-year Spanish courses increase functional language ability focusing on listening, speaking, reading, writing as well as increased focus on culture (philosophies, history, geography, literature, etc.) Lab attendance is required.

SPN 2040 – Intermediate Heritage Spanish **4 cr**

Prereq: For Spanish heritage speakers; raised in a home where Spanish is spoken; must be bilingual to some degree. instructor approval. Students increase knowledge of Hispanic cultures; listening, speaking, reading, writing and exploring a global understanding of Hispanic issues and challenges. Lab attendance is required.

SPN 2050 – Intermediate Heritage Spanish **4 cr**

Prereq: For Spanish heritage speakers; raised in a home where Spanish is spoken; must be bilingual to some degree; Instructor approval. Students increase knowledge of Hispanic cultures; listening, speaking, reading, writing and exploring a global understanding of Hispanic issues and challenges. Lab attendance is required.

SPN 2300 – Conversation **1 cr**

Prereq: SPN 1020 or instructor approval. Course practices currently held conversation skills to increase speaking ability and vocabulary. Includes role-plays, small group activities and presentations. Lab attendance required. May be repeated for credit.

SPN 2700 – Introduction to Literature **3 cr**

Prereq: SPN 1020 or SPN 2020. Second year courses focus on improvement of listening, speaking, reading, writing and culture skills. Major objective is to increase functional language ability through holistic approach to literature. Lab attendance required.

SPN 2710 – Intro to Spanish Film **3 cr**

Prereq: SPN 1020 or instructor approval. Course will aid students in their study of language and culture. Films will be viewed with subtitles and written work and discussions will be in Spanish. Lab attendance required.

SPN 2900 – Special Topics in Spanish **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in Spanish language and culture. Lab attendance required. May be repeated for credit.

SUBE 1110 – Substation Apprentice 1A **5 cr**

This course is for substation apprentices. Students will learn about basic electricity, electrical safety, tool use, Ohms Law and series circuits. The course also covers parallel, combination and DC fundamentals.

SUBE 1120 – Substation Apprentice 1B **5 cr**

Prereq: SUBE 1110 or Departmental Approval. Substation apprentices will learn about reading electrical symbol diagrams; substations and switchyards; safety in transmission and distribution maintenance; trigonometry for AC electricity; induction and transformers; and TandD systems.

SUBE 1210 – Substation Apprentice 2A **5 cr**

Prereq: SUBE 1120 or Departmental Approval. Substation apprentices will learn about safety in substations and switchyards; electromagnetic induction; high voltage AC power; transformers; reading electrical system diagrams; and use of electrical test and line test equipment.

SUBE 1220 – Substation Apprentice 2B **5 cr**

Prereq: SUBE 1210 or Departmental Approval. Substation apprentices will learn about distribution line safety; material handling bucket trucks; power transformer insulation resistor testing, turns ration testing, oil tests pressure relay testing and new inspection tests.

SUBE 2310 – Substation Apprentice 3A **5 cr**

Prereq: SUBE 1220 or Departmental Approval. Substation apprentices will learn about safety in substations and switchyards; circuit breakers; contact resistance testing; circuit breaker inspections, time travel and analysis; hydraulic derricks; digging equipment; rigging.

SUBE 2320 – Substation Apprentice 3B **5 cr**

Prereq: SUBE 2310 or Departmental Approval. Substation apprentices will learn about bucket truck safety; capacitors and reactors; voltage regulators; relays 1 and 2; control equipment; high voltage terminations; and substation battery, chargers, replacement and testing.

SUBE 2410 – Substation Apprentice 4A **5 cr**
Prereq: SUBE 2320 or Departmental Approval. Substation apprentices will learn about SF6 gas properties and handling; current transformer testing; vacuum bottle hi-pot testing; inferred conditioning monitoring; corona discharge testing; and multi-meter operation and use.

SUBE 2420 – Substation Apprentice 4B **5 cr**
Prereq: SUBE 2410 or Departmental Approval. Substation apprentices will learn about safety in transmission and distribution maintenance; use of electrical test equipment; distribution line safety; power transformer turns ratio testing and temperature indicating testing.

SURG 1200 – Intro to Surgical Technology **10 cr**
Prereq: Admission into program. Fundamentals course in Surgical Technology.

SURG 1250 – Advanced Surgical Theory **10 cr**
Prereq: Admission into program. SURG 1200. Course introduces students to more advanced surgical practices including surgical anatomy and procedures in the core surgical areas.

SURG 1500 – Surgical Procedures 1 **1 cr**
Prereq: Admission into program. Coreq: SURG 1510. Course introduces student to more advanced surgical practices and surgical procedures.

SURG 1510 – Surgical Practicum 1 **5 cr**
Prereq: Admission into program. Coreq: SURG 1500. A cooperative education work experience in a clinical health facility under the direct supervision of the personnel in the facility. Student expected to meet objectives.

SURG 1600 – Comprehensive Surg. Technology **1 cr**
Prereq: Admission into program. Coreq: SURG 1610. A review of Surgical Technology knowledge learned throughout the program to prepare students to pass the NBSTSA exam.

SURG 1610 – Surgical Practicum 2 **5 cr**
Prereq: Admission into program. Coreq: SURG 1600. A cooperative education work experience in a clinical health facility under direct supervision of personnel in facility. Student is expected to meet certain objectives.

SVT 1010 – Introduction to Surveying **1 cr**
Covers a historical tour of surveying from its beginnings to the present. The course will emphasize mathematical and technological progress as well as the role of surveyors in the beginning of America.

SVT 1030 – Surveying Field Techniques I **3 cr**

Recommended Prereqs: SVT 1110 or MATH 1060. This course provides hands-on experience with survey equipment. Horizontal traverses, levels, distance measuring techniques and devices, including how to take field notes are explored.

SVT 1110 – Surveying Math I (QS) **4 cr**

Prereq: MATH 1060 or appropriate Accuplacer score. Considers survey applications of algebra, trigonometry and analytic geometry. Includes bearing systems, elevations, traverse, adjustments and measurements corrections, horizontal/vertical curves, areas and volumes, partitioning of land.

SVT 1120 – Surveying Math II **4 cr**

Prereq: SVT 1110. Encompasses survey applications of astronomical observations, state plane coordinate systems, error analysis, restoration of lost corners, least square adjustment, horizontal control networks.

SVT 2020 – Public Land Surveying **3 cr**

Prereqs: SVT 1030 and SVT 1120. Covers a detailed study of land systems, including general and special instructions, lost and obliterated corners, single and double proportion, monumentation, riparian boundaries laps, hiatuses mineral surveys and official survey documents.

SVT 2030 – Surveying Field Techniques II **3 cr**

Recommended Prereq: SVT 1030. Field experience in construction surveying and staking, encompassing GPS fundamentals, radial surveying, robotics, total stations, data collection methods, coordinate creation/adjustment, public lands/state plane coordinate systems, etc.

SVT 2040 – Control Surveys **3 cr**

Prereq: SVT 1120. Accuracy levels and field procedures used to obtain them are explored. Calculation techniques for control networks, triangulations, trilateration and traverse use are dealt with at length. GPS will be emphasized.

SVT 2050 – Legal Descriptions **3 cr**

Recommended Prereq: SVT 2020. This course is about writing and understanding survey legal descriptions. Latent and patent ambiguities, basis of bearing and interpretation of terms are integrated into the course.

SVT 2060 – Ethics and Liability **2 cr**

This is a course study of professional practice(s) with emphasis on survey liability cases.

SVT 2100 – Land Development **3 cr**

Prereq: SVT 1110. Land planning techniques used in residential and commercial developments are discussed. Subdivision, condominiums, cluster housing, industrial parks and commercial complexes are studied and approval procedures are explained.

SVT 2110 – Photogrammetry **3 cr**

Recommended Prereq: SVT 1110. This course is an in-depth study of photo identification, stereographic interpretation, geometry and measurements from aerial photography.

SVT 2160 – Land Boundary Law I **2 cr**

The study of responsibilities of the land boundary surveyor, in protecting rights and interest of the land. Ownership and transfer of real property, systems for land descriptions, statute law, common law and presumptions are discussed.

SVT 2170 – Land Boundary Law II **2 cr**

Recommended Prereq: SVT 2160. Course studies researching of common law, location of sequential conveyances, location of simultaneous conveyances and unwritten transfers.

SVT 2200 – Public Records **2 cr**

Prereqs: SVT 2160, SVT 2170 and SVT 2050 or all concurrently. Students will study public records relating to land and its governing laws. This course requires tours of local record systems and law libraries. Extensive research and how to access and use the various systems will be explored.

SVT 2290 – Applied Surveying Drafting **3 cr**

Prereqs: EDDT 2190 and SVT 1030. This course is to develop a working knowledge of CAD as it relates to the profession of land surveying. Designing and drafting plats, utility master plans, digital terrain models, plan and profile sheets, and layouts from legal descriptions will be covered.

SVT 2990 – Special Topics **1 or 3 cr**

Prereq: Instructor approval. This course is designed so the students can work on special individualized projects under the supervision of the instructor.

SW 1010 – Introduction to Social Work **3 cr**

This is an introduction to the multi-skilled, multidisciplinary role of the social worker within the community.

SW 1900 – Independent Studies **1-2 cr**

Prereq: SW 1010. Under the instructors supervision, students will develop and follow an individualized curriculum.

SW 2100 – Human Behavior in Soc Env **3 cr**

This course will introduce students to the dynamics of human behavior in the social environment focusing on the interrelatedness of the biological, psychological and social dimensions of human behavior.

SW 2230 – Intro Group Therapy Process **2 cr**

Prereq: SW 2720. This is an applied workshop-styled experience where students will experience group dynamics through the classroom process.

SW 2280 – Drugs and Alcohol Abuse **2 cr**

Prereq: SW 1010 and 2100. Drugs and alcohol abuse and its effect on individuals, as well as intervention variables from a social work perspective will be studied.

SW 2650 – Social Welfare Policy **3 cr**

Students will examine the development of social welfare policies and programs in the United States as well as legislation that sanctions social services programs.

SW 2720 – Mental Health **2 cr**

Prereq: SW 1010 and 2100. This course examines society's attempts in understanding and treating mental illness.

SW 2750 – Ethics/Soc Wk Professionals **2 cr**

Prereq: SW 2720. Course examination of complex ethical aspects faced by social workers in professional practice. Useful techniques and tools will be introduced to develop ethically appropriate professional behavior.

SW 2900 – Special Topics **1-3 cr**

This is a course designed by faculty which allows students to explore specific interests in social work in a classroom setting.

SW 2940 – Social Work Internship **5 cr**

Prereq: SW 2750. This course is offered to social work students at the culmination of their course work in social work. It is a once a week course and a supervised work experience in a social work setting in a community agency.

TECH 1010 – Technology and the Future (ID) **3 cr**

Course looks at the past, present and future of technology and its impact on society and the individual. Through discussions, videos, demonstrations, and opportunities to create or evaluate new inventions, you will explore the future of your life and work.

TECH 1030 – Complex Devices Simp. (IN) 3 cr
Focuses on exploring and learning about common systems that may be encountered in today's world, particularly in high-tech devices, and how to apply this knowledge to understanding / troubleshooting complex devices.

THEA 1013 – Introduction to Theatre (FA) 3 cr
Introduction to theatre, starting with its ancient origins and continuing to contemporary theatre. Students explore the various aspects and collaborative processes of putting together a play. Brief introduction to all aspects of live theater production, including directing, designing, acting, producing, costuming, play writing and set building.

THEA 1023 – Introduction to Film (FA) 4 cr
Introduces students with no previous film training to historical, technical, and aesthetic developments of film within its cultural context. Film genres examined. Some materials presented are R-rated. Also listed as FLM 1023.

THEA 1030 – Voice and Movement for the Actor 3 cr
A practical application of the use of the actor's body, how it influences the voice, and how the two affect one's ability to effectively perform for the stage, film and other media. Aspects of the Lessac, Alexander, and Hawkin's techniques are explored.

THEA 1033 – Acting I - Basic Acting for Stage and Screen 3 cr
This course provides an introduction to the basic aspects of the acting process for stage, film, other media, and aspects of every day life. Emphasis is placed on techniques of acting with exercises in self-awareness, relaxation, improvisation, monologues and duo scenes.

THEA 1070 – Film and Culture (FA,DV) 4 cr
Course intended to raise diversity awareness through aesthetic, critical, and interdisciplinary examination of our American Cultural Identity through film. Presents film as an art form, as an industry, and ultimately a system of cultural representation and communication.

THEA 1090 – Bridging the Arts (FA) 3 cr
Course examines the interconnectedness of arts, dance, music and theatre by investigating the artistic elements and common threads within the creative process to develop an informed appreciation for ones own artistic values.

THEA 1113 – Voice I: Speech for Stage and Screen 3 cr
A comprehensive study of the human voice and its physiology as it relates to the production and quality of sound. A comprehensive study of phonetic sound using the International Phonetic Alphabet, and the skills involved in developing flexibility and range related to the craft of acting.

THEA 1160 – Technical Theatre I-Lab **3 cr**
Coreq: THEA 1513. Course provides practical backstage experience with emphasis on stagecraft.

THEA 1170 – Technical Theatre II-Lab **3 cr**
Coreq: THEA 1560. Course provides practical backstage experience with emphasis on lighting and sound.

THEA 1171 – Technical Theatre III-Lab **3 cr**
Coreq: THEA 2513. Course provides practical backstage experience with emphasis on design.

THEA 1190 – Production **1 cr**
Course is designed to involve students as a company in production of one-act plays, readers theatre and/or a full-length play. Can be repeated for credit.

THEA 1223 – Stage Make-up **3 cr**
The basics of stage makeup including two and three dimensional work with a focus on corrective, aging and period makeup. Includes an introduction to prosthetics and hair.

THEA 1400 – Copyrights for Creative Professionals **1 cr**
This introductory short course focuses on U.S. copyrights given to creative individuals who produce visual, musical, literary works of art or performing arts. The course also covers licensing and trademarking.

THEA 1420 – Salesmanship And Promotion For Creative Professionals **2 cr**
This introductory short course will introduce basic sales and self-promotional principles and techniques specifically tailored for creative artists.

THEA 1440 – Building A Creative Business **2 cr**
This introductory short course will introduce basic business structures and examine the process of setting up a business for creative professionals working in the areas of music, the many forms of visual design, fine art, animation, film and video, and the literary arts.

THEA 1513 – Technical Theatre I-Stagecraft **3 cr**
Coreq: THEA 1160 (required). Introduction to technical theatre , the stage house and theatrical production. Design, construction, painting, lighting, and sound are introduced. No prerequisites.

THEA 1515 – Basic Audio Production **3 cr**
A broad overview of sound, sound systems, recording, and live sound reinforcement providing basic training in the physics of sound and the hardware and systems used to control and record it. No prerequisites.

THEA 1560 – Tech Theatre II-Lighting/Sound **3 cr**

Prereq: THEA 1160 and THEA 1513. Coreq: THEA 1170. This class teaches lighting and sound through design, instrument placement, and operation of control boards.

THEA 1713 – Script Analysis **3 cr**

Prereq: THEA 1013. Development of methods and ideologies of script analysis with focus on the identification of major components of the text of the script. Emphasis is placed on dramatic structure, characterization, given circumstances, exposition and the dramaturgical intrinsic meaning of the text.

THEA 1900 – Special Projects in Theatre **1-3 cr**

Prereq: Instructor approval. Students will plan their areas of study, performance and/or technical work with full-time instructor on an individual basis.

THEA 2033 – Acting II - Scene Study for Stage and Screen **3 cr**

Prereq: THEA 1033. This course is a continuation of Acting I. It takes the basic skills learned in Acting I, and applies them to scene work for stage, film, and other media. Emphasis is placed on techniques of acting with exercises in self-awareness, relaxation, improvisation, and duo scenes.

THEA 2113 – Voice II: Dialects for the Actor **3 cr**

Prereq: THEA 1113. This course is a continuation of THEA 1113: Voice I, using phonetic sound and the International Phonetic Alphabet to produce regional dialects and accents in speech. Students will explore the ways in which the use of different regional dialects and accents affect and change a character.

THEA 2150 – Acting III-Audition **3 cr**

Prereq: THEA 1033 or instructor approval. Introduction to audition techniques for students who have taken basic acting or have a strong performance background. Students prepare three contrasting monologues and a resume, work with cold readings and meet with local talent agencies.

THEA 2200 – Introduction to Film Criticism **4 cr**

Prereq: ENGL 1010 and THEA 1023 or FLM 1050 or THEA/FLM 1070. Film or theatre majors explore in-depth critical aspects of film including aesthetic and technical developments that have influenced film from its inception to present day. Students will view key films. Some R-rated films presented.

THEA 2413 – Voice III: Voice Over **3 cr**

Prereq: THEA 1113 or instructor approval. A practical application course that examines the expressive possibilities of the human voice. Students will explore range, pitch, tempo, color, rhythm, and other qualities related to voice acting and broadcasting for use in stage, film and other media.

THEA 2443 – Musical Theatre Performance **3 cr**
Prereq: THEA 1033 or instructor approval. This course explores artistic elements of musical theatre through performance of its form and style.

THEA 2513 – Technical Theatre III-Design **3 cr**
Prereq: THEA 1160 and THEA 1513. Coreq: THEA 1171. Students will learn advanced design, construction and rigging techniques, drafting elevation and modeling for construction and backstage management.

THEA 2520 – Creative Dramatics **2 cr**
Intro to theories, concepts and methodology of creative drama as an aid to teaching all subjects. Students develop lesson plans and carry them out in a laboratory experience with children. Course may be taught with a Service Learning component.

THEA 2900 – Special Topics **1-3 cr**
This is a course designed by faculty which allows students to explore specific areas of interest in theatre in a classroom setting.

THEA 2990 – Performing Arts Connections **2 cr**
Prereq: Departments approval. This is a collaboration of dance, music, theatre and/or art students to create individual works to be performed in the Performing Arts Showcase.

TNG 1010 – Beginning Tongan I **5 cr**
First in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Tongan culture. Lab attendance is required.

TNG 1020 – Beginning Tongan II (LN) **5 cr**
Prereq: TNG 1010 or instructor approval. Second in a series of four courses which focus on listening, speaking, reading, writing and culture. Major objective of the first year is to develop functional language ability in the Tongan culture. Lab attendance is required.

TNG 1300 – Beginning Conversation **1 cr**
Prereq: TNG 1010 or instructor approval. Beginning Tongan Conversation is intended to practice previously acquired conversation skills to increase speaking ability and vocabulary. Attendance in lab is required. Course may be repeated for credit.

TNG 1900 – Special Studies in Tongan **1-2 cr**
Prereq: Instructor approval. Students plan areas of study, Service Learning or travel and work with the instructor on an individual basis. Topics may be in language or culture. Lab may be required. May be repeated for credit.

TNG 2300 – Intermediate Conversation **1 cr**

Prereq: TNG 1020 or instructor approval. Intermediate Tongan Conversation is intended to practice previously-acquired conversation skills to increase speaking ability and vocabulary. Attendance in lab is required. Course may be repeated for credit.

TRVL 1010 – Intro to Hospitality & Travel **2 cr**

This course investigates the travel and hospitality industry, addressing theories, planning, and environmental issues. Students will gain a general knowledge of how and why public and private tourism businesses exist.

TRVL 1020 – Travel Destinations **2 cr**

This course overviews the relevancy of geography to tourism and hospitality. Exploration of destinations around the world will expose their individuality and fascination.

TRVL 1030 – Travel Reservations **2 cr**

Students will gain knowledge and skills needed to research, plan and book air travel. Terminology, policies and procedures of airline travel and airline reservations will be discussed.

TRVL 1040 – Automated Air Reservations **2 cr**

Students will practice booking, maintaining, changing and canceling air reservations using RTS, hands-on Computer Reservation System, simulation of Sabre, in conjunction with the online tutorial.

TRVL 1050 – Travel Sales and Trends **2 cr**

Students will study sales techniques including telephone business manners, listening skills and tools for targeting the traveler. Web trends in the industry will also be discussed.

TRVL 1060 – Air Fares U.S. Domestic **2 cr**

This course presents the basics of air fares including terms, codes, fare construction principles and fare application rules necessary to find, interpret and apply the lowest applicable fares for clients.

TRVL 1070 – ARC Documents **1 cr**

Recommended Coreq: TRVL 1040. This is an introductory course to ticketing. Various ticketing types, forms, policies/procedures per Airline Reporting Corporation (ARC), forms of payment, refunds and exchanges will be discussed.

TRVL 1080 – Automated Air Fares & Tickets **2 cr**

Recommended Coreq: TRVL 1040. This course will introduce students to finding the lowest fares for clients utilizing the RTS hands-on Computer Reservation System, simulation of Sabre, in conjunction with the online tutorial.

TRVL 1090 – Ground Transportation **2 cr**

This course will introduce students to the basics of car rental policies/procedures, codes, pricing/distribution, and rail travel including Amtrak, VIA Rail, BritRail/Eurail and train accommodations, services and fare structure.

TRVL 2010 – Hotels and Lodging **1 cr**

This course will cover the fundamentals of the hotel product, rate structure, property and room classifications, codes, published/automated resources and non-automated reservation procedures and the variables that affect prices.

TRVL 2015 – Automated Trvl Accommodations **1 cr**

Prereq: TRVL 1040 and TRVL 1080. Students will practice selecting, booking, maintaining, changing and canceling car rental and hotel room reservations using the RTS hands-on Computer Reservation System (CRS), simulation of Sabre in conjunction w/ the online tutorial.

TRVL 2020 – The Cruise Market **2 cr**

This course overviews the basics of cruises including classifications, destinations, types of cruises, and nonautomated reservation procedures. Students will gain knowledge of how to book the right cruise for any client.

TRVL 2030 – Selling Vacation Pkgs & Tours **2 cr**

This course overviews the basics of tour including; components of tours, tour destinations, types of vacation packages, print and electronic resources, non-automated tour booking procedures and function of tour operator/wholesaler.

TRVL 2040 – Fares & Tickets International **1 cr**

This course introduces students to international air travelers including two basic intl faring systems, mileage/routing and currency procedures, international fare basis codes, base fares, taxes and surcharges.

VOC 2000 – Cooperative Education **1-3 cr**

Work experience for credit. Can be applied toward vocational /technical elective credits in the General Studies Program. Students may earn 1 to 3 credits per semester, and 6 credits total.

WLD 1005 – Related Welding **3 cr**

Students will learn basic principles of the arc and acetylene welding including flat and horizontal welds; brazing and cutting techniques.

WLD 1110 – Fundamentals of Welding **3 cr**

Coreq: WLD 1111. Course covers the theory of shielded metal arc welding, oxy-acetylene welding and cutting. Study of electrode classification and Mastery of Safety procedure.

WLD 1111 – Fundamentals of Welding Lab **7 cr**
Coreq: WLD 1110. Practical lab applications of shield metal arc welding, oxy-acetylene welding and cutting. Study of electrode classification, mastery of safety, rolling bend test.

WLD 1120 – Welding Processes and Quality **3 cr**
Prereq: WLD 1110 and WLD 1111. Coreq: WLD 1121. Study of welding joint design, defects and the properties of metals. Destructive testing, code procedures, plasma arc and air cabin arc cutting, brazing and braze welding. Emphasis on welder qualifications for A. W. S. Certification.

WLD 1121 – Welding Processes/Quality Lab **7 cr**
Prereq: WLD 1110 and WLD 1111 or equiv. Coreq: WLD 1120. Advanced welding, thermal cutting, braze welding, and fabrication. Numerically controlled cutting and an emphasis on A. W. S. Certification preparation.

WLD 1199 – Specialty Training in Welding **1-8 cr**
Varied credit and contact hours to train students in industry specific specialty areas as requested by industry.

WLD 1230 – Gas Shield Weld Inspection **3 cr**
Prereq: WLD 1120 and WLD 1121 or equiv. Coreq: WLD 1231. Theory of wire feed weld on ferrous and nonferrous base metals. Theory of welding metallurgy and shielding gas and filler metal. MIG and TIG welding including emphasis on qualification for A. W. S. Certification.

WLD 1231 – Gas Shield Weld/Inspection Lab **7 cr**
Prereq: WLD 1120 and WLD 1121 or equiv. Coreq: WLD 1230. Practical hands on lab application of GMAW to include short arc (MIG) and spray arc transfer, GTAW (TIG) on ferrous and nonferrous base metals. Practical maintenance and repair welding application. Emphasis on A. W. S. Certification prep.

WLD 1240 – Flux Core, Pipe Fabrication **3 cr**
Prereq: WLD 1230 and WLD 1231, or equivalent. Coreq: WLD 1241. Theory of FCAW (inner shield and dual shield), SAW (submerged arc welding), pipe welding and fitting, layout, and fabrication including blueprint reading and interpretation. Emphasis on A. W. S. prep for Certification.

WLD 1241 – Flux Core, Pipe Fab Lab **7 cr**
Prereq: WLD 1230 and WLD 1231 or equiv. Coreq: WLD 1240. Practical Lab application of flux core arc welding (FCAW), submerged arc welding (SAW), pipe welding and layout, fabrication, and pipe welding techniques. Emphasis on A. W. S. Certification prep.

WLD 1260 – Blueprint for Welding **3 cr**
Study of welding, blueprint reading and drawing. Special study of pipe symbols, welding symbols and layout work.

WLD 1299 – Specialty Training - Welding **1-8 cr**

Prereq: Instructor approval. Designed to assist students to obtain specialized training specific to industry needs. Is taught on an as needed basis when requested by industry with variable contact and credit hours.

WLDA 1005 – Related Welding **3 cr**

Students will learn basic principles of the arc and acetylene welding including flat and horizontal welds, brazing and cutting techniques.

WLDA 1110 – Fundamentals of Welding **4 cr**

Coreq: WLDA 1111. Course covers the theory of shielded metal arc welding, oxyacetylene welding and cutting. Study of electrode classification and Mastery of Safety Procedure.

WLDA 1111 – Fundamentals of Welding Lab **2 cr**

Coreq: WLDA 1110. Practical lab applications of shielded metal arc welding, oxy-acetylene welding and cutting. Study of electrode classification, mastery of safety, guided bend test.

WLDA 1120 – Welding Processes and Quality **4 cr**

Prereq: WLDA 1110 and WLDA 1111. Coreq: WLDA 1121. Study of welding joint design, defects, and properties of metal. Destructive testing, code procedures, plasma arc and air cabin arc cutting, brazing and braze welding. Emphasis on welder qualification for A. W. S. Certification.

WLDA 1121 – Welding Processes/Quality Lab **2 cr**

Prereq: WLDA 1110 and WLDA 1111. Coreq: WLDA 1120. Advanced welding, thermal cutting, braze welding, and fabrication. Numerically controlled cutting and an emphasis on Certification preparation with the A. W. S.

WLDA 1199 – Specialty Training in Welding **3-4 cr**

Varied credit and contract hours to train students in industry specific specialty areas as requested by industry.

WLDA 1230 – Gas Shield Wldg/Inspection Gas **4 cr**

Prereq: WLDA 1120 and WLDA 1121. Coreq: WLDA 1231. Theory of Wire feed weld on ferrous and nonferrous base metals. Theory of welding metallurgy and shielded gas and filler metal. Mig and Tig welding including emphasis on qualification for A. W. S. Certification.

WLDA 1231 – Gas Shield Weld/Inspection Lab **2 cr**

Prereq: WLDA 1120 and WLDA 1121. Coreq: WLDA 1230. Practical hands on lab application of GMAW to include short arc (MIG) and spray arc transfer, GTAW (TIG) on ferrous and nonferrous base metals. Practical maintenance and repair welding application. Emphasis on A. W. S. Certification prep.

WLDA 1240 – Flux Core, Pipe Fabrication **4 cr**

Prereq: WLDA 1230 and WLDA 1231. Coreq: WLDA 1241. Theory of FCAW (inner shield and dual shield), SAW submerged arc welding), pipe welding and fitting, layout, and fabrication including blueprint reading and interpretation. Emphasis on A. W. S. prep for Certification.

WLDA 1241 – Flux Core, Pipe Fabrica. Lab **2 cr**

Prereq: WLDA 1230 and WLDA 1231. Coreq: WLDA 1240. Practical Lab application of flux core arc welding (FCAW), submerged arc welding (SAW), pipe welding and layout, fabrication, and pipe welding techniques. Emphasis on A. W. S. Certification preparation.

WLDA 1260 – Blueprint for Welding **3 cr**

Study of welding blueprint reading and drawing. Special study of pipe symbols, welding symbols, and layout work.

WLDA 1299 – Specialty Training - Welding **1-7 cr**

Designed to assist students to obtain specialized training specific to industry needs. Is taught on an as-needed basis when credit requested by industry with variable contact and credit hours.

WLDA 2000 – Welding CO-OP **2-4 cr**

College credit for experience on the job site. Arranged in advance. Requirements are determined by the employer.

WRTG 0900 – Basic Writing **5 cr**

Prereq: ESL 1010 and ESL 1020, both w/C grade or better, OR appropriate Accuplacer score. Designed for students with little writing experience. Introduces them to the writing process while building confidence and fluency. Students learn writing as a social act intended for different audiences and purposes.

WRTG 0990 – College Preparatory Writing **3 cr**

Prereq: WRTG 0900 w/C grade or better, or appropriate Accuplacer score. Prepares students for college-level writing. Uses discussion, critical thinking, reading and writing to discover ideas and meaning for writer and reader alike.

WRTG 0900 – Basic Writing **5 cr**

Prereq: ESL 1010 and ESL 1020, both w/C grade or better, OR appropriate Accuplacer score. Designed for students with little writing experience. Introduces them to the writing process while building confidence and fluency. Students learn writing as a social act intended for different audiences and purposes.

WRTG 0990 – College Preparatory Writing **3 cr**

Prereq: WRTG 0900 w/C grade or better, or appropriate Accuplacer score. Prepares students for college-level writing. Uses discussion, critical thinking, reading and writing to discover ideas and meaning for writer and reader alike.

Adams, Sondra (1990)
Associate Dean
Health & Lifetime Activities
1990 - MS, EASTERN WASHINGTON UNIVERSITY
1981 - BS, UNIVERSITY OF UTAH

Aird, Jeffrey (2013)
Director, Institutional Inquiry & Analysis
Institutional Effectiveness
2011 - JD, BRIGHAM YOUNG UNIVERSITY
2011 - MPA, Brigham Young University

Alldredge, David (2008)
Associate Dean
Accounting, Financie & Economicsinance & Econ
2006 - MBA, BOISE STATE UNIVERSTSY
1993 - BS, BOISE STATE UNIVERSITY

Allen, Paul (2002)
Associate Dean
Humanities, Language & Culture
1995 - PhD, YALE UNIVERSITY
1992 - MPhil, YALE UNIVERSITY
1991 - MA, YALE UNIVERSITY
1989 - BA, SONY AT BUFFALO

Askerlund, Robert (1989)
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Facilities Office
2000 - BS, UNIVERSITY OF PHOENIX
1976 - AAS, SALT LAKE COMMUNITY COLLEGE

Attridge, David (1986)
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Institute of Public Safety
1976 - MPA, BRIGHAM YOUNG UNIVERSITY
1974 - BS, BRIGHAM YOUNG UNIVERSITY
1969 - AA, NORTH IDAHO JUNIOR COLLEGE

Beagley, Tim (1990)
Dean
School of Health Sciences
1997 - PhD, UNIVERSITY OF UTAH
1989 - MS, UNIVERSITY OF UTAH
1987 - BS, UNIVERSITY OF UTAH

Beal, Jason (2011)
Senior Director
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2004 - MBA, UNIVERSITY OF PHOENIX
2001 - BS, BRIGHAM YOUNG UNIVERSITY
1996 - AS, UTAH VALLEY STATE COLLEGE

Berman, Lynne (2013)
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Dental Hygiene
2006 - MS, UNIVERSITY OF PHOENIX
1983 - BS, UNIVERSITY OF BRIDGEPORT

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Risk Management
2004 - MA, WEBSTER UNIVERSITY
2001 - BS, WESTMINSTER COLLEGE

Blake, Spencer (1997)
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Psychology & Sociology
1997 - MA, REGIS UNIVERSITY
1993 - BS, BRIGHAM YOUNG UNIVERSITY

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School of Technical Specialties
1983 - MS, EASTERN ILLINOIS UNIVERSITY
1981 - BS, EASTERN ILLINOIS UNIVERSITY

Bradford, William (1989)
Director Media Operations
1985 - CERT, U.S. Federal Communications Commission
1980 - LIC, U.S. Federal Communications Commission

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Dean
School of Applied Technologies & Professional Development
2005 - MEd, UNIVERSITY OF MONTANA
1995 - BA, UNIVERSITY OF MONTANA

Bromley, Dennis (2009)
Dean
School of Business
1993 - PhD, UTAH STATE UNIVERSITY
1983 - MS, UNIVERSITY OF WYOMING
1982 - BS, UNIVERSITY OF WYOMING
1980 - AAS, LARAMIE COUNTY COMMUNITY COLLEGE

Burdette, Robert (2000)
Program Director, Culinary Art
Culinary Arts
1993 - MS, WASHINGTON SCHOOL OF LAW
1979 - BA, UNIVERSITY OF UTAH

Caldwell, Michael (2004)
Program Director
Biotechnology
1998 - PhD, TEXAS A & M UNIVERSITY
1992 - BS, UNIVERSITY OF LOUISIANA

Campbell, Katherine (1996)
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Student Services North Region
1992 - BA, WEBER STATE UNIVERSITY
1980 - AAS, COLLEGE OF EASTERN IDAHO
1990 - AS, RICKS COLLEGE

Carr, Norma (1989)
Director
Athletics & Recreation
1977 - MS, UNIVERSITY OF UTAH
1969 - BS, BRIGHAM YOUNG UNIVERSITY

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Health & Wellness Services
2010 - PhD, LOMA LINDA UNIVERSITY
1995 - MS, CALIFORNIA STATE UNIVERSITY
1989 - BS, CALIFORNIA STATE UNIVERSITY

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Office of the Registrar & Academic Records
2008 - MA, UNIVERSITY OF PHOENIX
2001 - BS, UNIVERSITY OF UTAH
1998 - AS, SALT LAKE COMMUNITY COLLEGE

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Assistant Vice Predisent, Student Services
Student Life & Dean of Students
2005 - PhD, GONZAGA UNIVERSITY
1980 - MS, GEORGE PEABODY COLLEGE VANDERBILT UNIVERISTY
1978 - BS, LAVERNE UNIVERSITY
1976 - AA, ALLAN HANCOCK COMMUNITY COLLEGE

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Multicultural Initiatives
1996 - MEd, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
1982 - BA, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Cosby, Kimberly (2010)
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Computer Sciences & Paralegal Studies
1998 - MS, UTAH STATE UNIVERSITY

Crabtree, Shane (1992)
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Public Safety

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Internal Audit
1980 - MBA, CENTRAL MICHIGAN UNIVERSITY
1972 - BS, SOUTHERN UNIVERSITY

Darling, Candida (2012)
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Disability Resource Center
2002 - MSW, MISSOURI STATE UNIVERSITY
2001 - BS, BOISE STATE UNIVERSITY

Diaz, Joseph (2009)
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1999 - PhD, UNIVERSITY OF NEVADA LAS VEGAS
1997 - MA, UNIVERSITY OF NEVADA LAS VEGAS
1995 - BA, UTAH STATE UNIVERSITY

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First Year Experience
2011 - MA, UNIVERSITY OF UTAH
2009 - BS, UNIVERSITY OF UTAH

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Food Services
2001 - BS, COLUMBIA COLLEGE
1977 - AS, RICKS COLLEGE

Eikenberry, L Eric (2012)
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Utah WERKS
1993 - MEd, NORTHERN ARIZONA UNIVERSITY
1981 - BA, ARIZONA STATE UNIVERSITY
1979 - AA, MESA COMMUNITY COLLEGE

Ferre, Steven (1970)
Director
College Store
1974 - AAS, SALT LAKE COMMUNITY COLLEGE

Fillat, Nancy (1989)
Director
International Student Services
1989 - TESOL, CERTIFIED UNIVERSITY OF UTAH
1988 - BA, UNIVERSITY OF UTAH

Fisher, Marni (2001)
Director
Employment & Compensation
2001 - BS, UTAH STATE UNIVERSITY
1998 - AA, SNOW COLLEGE

Francis, Malin (2010)
Director, Planning & Design
Facilities Architects
1992 - BS, UNIVERSITY OF UTAH
1988 - BS, UTAH STATE UNIVERSITY
1989 - BS, UTAH STATE UNIVERSITY

Frogley, Kent (2013)
Assistant Vice President
Institutional Marketing

Gardner, Craig (1991)
Assistant Vice President
Human Resources
1990 - BS, UTAH STATE UNIVERSITY
1990 - BS, UTAH STATE UNIVERSITY
1982 - AS, SNOW COLLEGE

Glenn, Jon (1996)
Director
Library Services
2009 - MS, UNIVERSITY OF NORTH TEXAS
1993 - BA, UNIVERSITY OF UTAH

Green, Katrina (2000)
Director
Curriculum, Sceduling & Site Support
1993 - MS, UNIVERSITY OF UTAH
1990 - BA, UTAH STATE UNIVERSITY

Griggs, Bryan (1994)
Associate Dean
Visual Art & Design
1993 - BFA, ART CENTER COLLEGE OF DESIGN
1989 - AA, RICKS COLLEGE

Grover, Barbara (1993)
Assistant Provost
Institutional Effectiveness
1991 - MS, UNIVERSITY OF OREGON
1976 - BA, PRINCETON UNIVERSITY
1983 - CERT, WESTERN OREGON STATE COLLEGE

Gunn, Karen (1992)
Associate Provost
Economic Development & Business Partnerships
1991 - MBA, WESTMINSTER COLLEGE
1979 - , UNIVERSITY OF UTAH
1974 - BA, UTAH STATE UNIVERSITY

Hallett, Anjali (2014)
Director
Center for Innovation & Professional Development
1994 - BA, UNIVERSITY OF PITTSBURGH
2009 - MS, UNIVERSITY OF UTAH

Hansen, Daniel (2012)
Director
Plant Operation & Maintenance
2011 - BS, UTAH VALLEY UNIVERSITY
2003 - AAS, UTAH VALLEY STATE COLLEGE

Hansen, Douglas (1999)
Controller
Business Office
1982 - CPA, STATE OF UTAH
1979 - BA, UNIVERSITY OF UTAH

Harvey, Diana (1985)
Director
Testing Services
1971 - BS, BOWLING GREEN STATE UNIVERSITY
1975 - MEd, BOWLING GREEN STATE UNIVERSITY

Heiser, Eric (2014)
Associate Dean
School of Applied Technology
2011 - PhD, COLORADO STATE UNIVERSITY
2006 - BS, UNIVERSITY OF WYOMING
2008 - MA, UNIVERSITY OF WYOMING

Henrie, Kimberly (2008)
Assistant Vice President
Budget Services
2011 - DEd, UNIVERSITY OF UTAH
2000 - MBA, WESTMINSTER COLLEGE
1998 - BA, WESTMINSTER COLLEGE

Hesleph, Jack (1984)
Director
Student Employment & CO-OP Education
1972 - BS, OREGON STATE UNIVERSITY
1969 - AA, MESA JUNIOR COLLEGE

Hobbs, Ryan (2000)
Director
Distance Education & Instructional Technology
2000 - MS, UTAH STATE UNIVERSITY
1999 - BS, UTAH STATE UNIVERSITY

Hoffman, Margaret (1990)
Director
Student Life & Leadership
1994 - BA, BRIGHAM YOUNG UNIVERSITY
1991 - AS, SALT LAKE COMMUNITY COLLEGE
1992 - AS, SALT LAKE COMMUNITY COLLEGE

Huftalin, Deneece (1992)
Interim President
President's Office
2006 - PhD, UNIVERSITY OF UTAH
1987 - MA, UNIVERSITY OF CALIFORNIA LOS ANGELES
1984 - BS, UNIVERSITY OF UTAH

Iles, Peter (1999)
Associate Dean
Natural Sciences
1992 - PhD, LATROBE UNIVERSITY
1986 - MAS, FOOTSCRAY INSTITUTE OF TECH.
1976 - BAS, FOOTSCRAY INSTITUTE OF TECH.

Jessen, Gail (2002)
Director
Thayne Center
2011 - MA, WESTMINSTER COLLEGE
2002 - BA, WESTMINSTER COLLEGE

Keleher, Mary (2004)
Department Chair
Biology
2007 - PhD, BRIGHAM YOUNG UNIVERSITY
1994 - MS, OHIO UNIVERSITY
1993 - MS, OHIO UNIVERSITY
1992 - BS, FRANKLIN UNIVERSITY

Kemerer, Jill (1993)
Director
School Relations
2002 - MEd, WESTMINSTER COLLEGE
1975 - BS, WEST VIRGINIA UNIVERSITY

Klaus, Dennis (2006)
Vice President
Business Services
1981 - MBA, UNIVERSITY OF MONTANA
1970 - BS, PENNSYLVANIA STATE UNIVERSITY

Larsen, Curtis (2008)
Assistant Vice President, Student Services
Student Planing & Support
2008 - MPA, UNIVERSITY OF UTAH
1997 - BA, UNIVERSITY OF UTAH

Lurker, Robert (2011)
Associate Dean
Technical Specialties
1997 - MEd, CITY UNIVERSITY
1990 - BS, BRIGHAM YOUNG UNIVERSITY
1977 - AA, GOLDEN WEST COLLEGE

McCall, Jourdan (1995)
Director
Administrative Computing
1995 - MEd, UNIVERSITY OF UTAH
2011 - MS, UNIVERSITY OF ILLINOIS AT SPRINGFIELD
1991 - BA, UNIVERSITY OF UTAH
1989 - AA, SALT LAKE COMMUNITY COLLEGE

McCormick, John (1988)
Dean
School of Humanities & Social Science
1973 - PhD, UNIVERSITY OF IOWA
1968 - MS, UNIVERSITY OF UTAH
1966 - BA, UNIVERSITY OF UTAH

McFarlane, Alison (2007)
Vice President
Institutional Advancement
1981 - BA, UNIVERSITY OF UTAH

McKnight, Marianne (1992)
Associate Dean
History, Anthropology, & Political Science
1984 - MA, UNIVERSITY OF UTAH
1981 - BA, UNIVERSITY OF UTAH

McWilliams, Shannon (1987)
Director
Student Services South Region
1997 - BS, UNIVERSITY OF UTAH
1991 - AAS, SALT LAKE COMMUNITY COLLEGE
1995 - AS, SALT LAKE COMMUNITY COLLEGE

Millard, S. Cristi (1988)
Director
Financial Aid
2007 - MA, UNIVERSITY OF PHOENIX
1988 - BA, BRIGHAM YOUNG UNIVERSITY

Miller, Kevin (1998)
Director
SAT Student Affairs
1978 - MA, EASTERN BAPTIST THEOLOGICAL SEMINARY
1976 - BA, HUNTINGTON COLLEGE

Miller, Seth (2007)
Director
Grand Theatre

Millward, Nathan (2011)
Director
Controller/Business Office
1997 - MS, UTAH STATE UNIVERSITY
1990 - BS, WEBER STATE UNIVERSITY
1986 - AS, SNOW COLLEGE

Moore, Casey (2004)
Director
Information Technology
1994 - BS EE, UNIVERSITY OF UTAH

Mozdy, Suzanne (2003)
Department Chair
Mathematics
2001 - MS, OREGON STATE UNIVERSITY
1989 - BS, SANTA CLARA UNIVERSITY

Omer, Elizabeth (2012)
Director
Grants & Contracts
2000 - BS, Southern Utah University

Parker, Sonia (1998)
Director
Academic Advising
1984 - MA, BRIGHAM YOUNG UNIVERSITY
1981 - BA, UNIVERSIDAD DE GUAYAQUIL

Penrose, Bonnie (2006)
Department Chair
Barbering and Cosmetology

Picard, Christopher (2010)
Provost of Academic Affairs
1985 - PhD, BROWN UNIVERSITY
1975 - MA, UNIVERSITY OF MICHIGAN
1974 - BA, UNIVERSITY OF NEBRASKA

Pickavance, Jason (2003)
Director
Educational Initiatives
2008 - PhD, UNIVERSITY OF UTAH
1997 - MA, WESTERN WASHINGTON UNIVERSITY
1994 - BA, WESTERN WASHINGTON UNIVERSITY
1992 - AA , GREEN RIVER COMMUNITY COLLEGE

Prestridge-Orton, Mozelle (2006)
Director
Equal Employment Opportunity & Risk Admin
1993 - MEd, UTAH STATE UNIVERSITY
1988 - BS, UNIVERSITY OF UTAH

Roberts, Gregory (2012)
Director
TRIO Programs Support Services
1979 - MEd, UNIVERSITY OF IDAHO
1978 - BA, IDAHO STATE UNIVERSITY

Ruell, John (2013)
Treasurer/Assistant Controller
Business Office
1996 - MS, TEXAS TECH UNIVERSITY
1993 - MPA, BRIGHAM YOUNG UNIVERSITY

Ruffus, Stephen (1989)
Associate Dean
English
1974 - MA, COLORADO STATE UNIVERSITY
1972 - BA, STATE UNIVERSITY OF NEW YORK AT BUFFALO
1991 - BS, BRIGHAM YOUNG UNIVERSITY

Sanders, Clifton (1993)
Dean
School of Science, Mathematics, & Engineering
1990 - PhD, UNIVERSITY OF UTAH
1977 - BA, HAMLINE UNIVERSITY

Saunders, Jennifer (2003)
Associate Dean
Continuing Education
2004 - CFRE, COUNCIL FOR RESOURCE DEVELOPMENT
1996 - CPM, STATE OF UTAH
1995 - MEd, WESTMINSTER COLLEGE
1992 - BS, UNIVERSITY OF UTAH

Schouten, Randy (2004)
Associate Dean
Business & Employment Outreach
1969 - MBA, UNIVERSITY OF UTAH
1968 - BS, BRIGHAM YOUNG UNIVERSITY

Scott, Judy (2011)
Associate Dean
Nursing
1998 - MSN, UNVIERSITY OF NEVADA LAS VEGAS
1991 - BSN, UNIVERSITY OF NEVADA LAS VEGAS

Scott, Richard (1997)
Dean
School of Arts, Communication & Media
1974 - BA, RICHARD STOCKTON COLLEGE

Seltzer Stitt, Jennifer (2012)
Director
Community Relations
2000 - MS, JOHN HOPKINS UNIVERSITY
1996 - BPh, MIAMI UNIVERSITY

Sheehan, Timothy (2010)
Vice President
Government & Community Relations
1993 - MPA, BRIGHAM YOUNG UNIVERSITY
1990 - BS, BRIGHAM YOUNG UNIVERSITY

Singer, Nancy (2011)
Vice President
Student Services
2009 - PhD, UNIVERSITY OF ARIZONA
1979 - MA, BOWLING GREEN STATE UNIVERSITY
1978 - BS, MILLIKIN UNIVERSITY

Smith, Dale (1985)
Associate Dean
Education, Family & Human Studies, Social Work
1978 - MS, BRIGHAM YOUNG UNIVERSITY
1976 - BS, BRIGHAM YOUNG UNIVERSITY

Southerland, J. Nathaniel (2009)
Assistant Provost
Academic Support
2010 - PhD, UNIVERSITY OF UTAH
2001 - MSS, UTAH STATE UNIVERSITY
1999 - BA, BRIGHAM YOUNG UNIVERSITY

Tlou, Joy (1994)
Director
Public Relations
1986 - BA, LUTHER COLLEGE

Van Dyke, Dana (1977)
Budget Director
1982 - AS, SALT LAKE COMMUNITY COLLEGE

Vanderpool, Neil (2011)
Associate Dean
Communication & Performing Arts
1998 - MFA, UNIVERSITY OF OREGON
1989 - BA, BRIGHAM YOUNG UNIVERSITY

Vincent, Richard (2013)
Associate Dean
Aviation & Related Technologies
2007 - MS, NOVA SOUTHEASTERN UNIVERSITY

Weber, Eric (1993)
Assistant Vice President, Student Services
Student Enrollment Services
1992 - CERT, US DEPARTMENT OF EDUCATION
1994 - MEd, UNIVERSITY OF SOUTH FLORIDA
1979 - BA, MICHIGAN STATE UNIVERSITY
1975 - AS, DAVENPORT COLLEGE

Wiesemann, Lois (2002)
Director, Purchasing/Agent
Purchasing Office
1990 - CERT., INSTITUTE FOR SUPPLY MANAGEMENT
1974 - BS, UTAH STATE UNIVERSITY

Wilkinson, James (2005)
Director
Enterprise Infrastructure
2011 - MS, KELLER GRADUATE SCHOOL OF MANAGEMENT
1998 - BA, UNIVERSITY OF UTAH
1997 - AS, SALT LAKE COMMUNITY COLLEGE

Wilkinson, Sherman (2007)
Director
Utah Small Business Develop Center
1985 - MPA, BRIGHAM YOUNG UNIVERSITY
1982 - BS, UNIVERSITY OF UTAH

Willett, Barbara (2000)
Associate Dean
Marketing and Management
1995 - MBA, WILLIAM CAREY COLLEGE
1989 - MEd, UNIVERSITY OF SOUTHERN MISSISSIPPI
1987 - BSBA, UNIVERSITY OF SOUTHERN MISSISSIPPI
1983 - AS, PERAL RIVER JUNIOR COLLEGE

Williams, Patricia (1990)
Director
Employee Benefits & HRIS
1985 - AAS, SALT LAKE COMMUNITY COLLEGE

Zoumadakis, William (1983)
Chief Information & Security Officer
Information Technology
2009 - MS, FLORIDA TECH
1993 - BS, UTAH STATE UNIVERSITY
1982 - AAS, SALT LAKE COMMUNITY COLLEGE

Adamson, Robert (1994)
Professor
Visual Art & Design
2007 - MFA, BRIGHAM YOUNG UNIVERSITY
1993 - BFA, UNIVERSITY OF UTAH

Afghan, Francis (1993)
Associate Professor
Engineering
1997 - MS, UNIVERSITY OF UTAH
1981 - BS, IDAHO STATE UNIVERSITY
1984 - BS, UNIVERSITY OF UTAH

Albers, Kelly (2005)
Instructor
Applied Technology Center
2009 - CERT, STATE OF UTAH BOARD OF EDUCATION
2005 - CERT, COMPTIA I-NET+

Alesch, Jeanine (2010)
Associate Professor
Language
1996 - PhD, UNIVERSITY OF PENNSYLVANIA
1993 - MA, UNIVERSITY OF PENNSYLVANIA
1986 - BA, BRYN MAWR COLLEGE

Allan, Jololene (2008)
Assistant Professor
Nursing
2000 - FNP, WESTMINISTER COLLEGE
1991 - MSN, BRIGHAM YOUNG UNIVERSITY
1983 - BSN, WESTMINISTER COLLEGE

Allen, Jeanie (2011)
Instructor
Dental Hygiene
1984 - BS, WEBER STATE UNIVERSITY

Alva, Brandon (2006)
Assistant Professor
English
2009 - MFA, UNIVERSITY OF ARIZONA
2006 - BA, UNIVERSITY OF UTAH

Alvarez, Mary (2007)
Instructor
Chemistry
2007 - MS, BRIGHAM YOUNG UNIVERSITY
2003 - BS, UNIVERSITY OF UTAH

Anderson, Beverly (1999)
Associate Professor
Nursing
1999 - MSN, UNIVERSITY OF PHOENIX
1985 - BSN, BRIGHAM YOUNG UNIVERSITY
1981 - ASN, BRIGHAM YOUNG UNIVERSITY

Anderson, Georgia (1992)
Professor
Nursing
1990 - MSN, WEST TEXAS STATE UNIVERSITY
1976 - BSN, WEST TEXAS STATE UNIVERSITY

Anderson, Joseph (2007)
Instructor
Criminal Justice
1974 - J.D., UNIVERSITY OF UTAH
1974 - MA, UNIVERSTY OF UTAH
1970 - BA, UNIVERSITY OF UTAH

Andrus, Anton (1982)
Professor
Finance & Credit
1973 - MBA, UNIVERSITY OF WASHINGTON
1963 - BA, BRIGHAM YOUNG UNIVERSITY

Anstall, Paul (2000)
Associate Professor
Computer Science
2000 - CERT, WEBER STATE UNIVERSITY
1997 - AAS, SALT LAKE COMMUNITY COLLEGE
1981 - BA, COLLEGE OF ST. SCHOLASTICA

Archibald, Lyle (1992)
Assistant Professor
Fine Arts
1992 - MA, BRIGHAM YOUNG UNIVERSITY
1988 - BA, UTAH STATE UNIVERSITY

Atashi, Zahra (2012)
Assistant Professor
Computer Science
2009 - MS, UNIVERSITY OF ALABAMA HUNTSVILLE

Baggaley, Thomas (2002)
Associate Professor
Fine Arts
2000 - MA, UNIVERSITY OF CALIFORNIA LA
1995 - BM, BRIGHAM YOUNG UNIVERSITY

Bagley, Cathy (1996)
Assistant Professor
Barbering and Cosmetology
2007 - CERT, STATE OF UTAH
1998 - AAS, SALT LAKE COMMUNITY COLLEGE

Baird, Brett (1989)
Assistant Professor
Automotive Technology
1991 - AAS, SALT LAKE COMMUNITY COLLEGE

Baird, Robert (1992)
Associate Professor
Computer Science
1991 - MA, WEBSTER UNIVERSITY
1974 - BS, BRIGHAM YOUNG UNIVERSITY
1980 - AS, PIKES PEAK COMMUNITY COLLEGE

Baird, Todd (2007)
Assistant Professor
Aviation Maintenance
2012 - CERT, CONTINENTAL MOTORS, INC.
2010 - AAS, SALT LAKE COMMUNITY COLLEGE

Balmforth, Alena (1993)
Assistant Professor
English
1990 - BA, UNIVERSITY OF UTAH

Barnes, Jennie (2002)
Associate Professor
Nursing
2003 - MSN, UNIVERSITY OF PHOENIX
1994 - BSN, WEBER STATE UNIVERSITY
1984 - AS, COLLEGE OF EASTERN UTAH
1982 - ASN, WEBER STATE UNIVERSITY

Barnes, Jonathan (2005)
Associate Professor
Physics
2002 - MS, BRIGHAM YOUNG UNIVERSITY
1999 - BS, BRIGHAM YOUNG UNIVERSITY

Bartholomew, Spencer (2012)
Assistant Professor
Mathematics
2005 - MS, UNIVERSITY OF UTAH
2000 - BS, UNIVERSITY OF UTAH

Bastian, Neil (1996)
Professor
Chemistry
1987 - PHD, MASSACHUSETTS INSTITUTE OF TECHNOLOGY
1980 - BS, BRIGHAM YOUNG UNIVERSITY

Bell, Kathryn (2010)
Assistant Professor
Biology
2009 - MPH, UNIVERSITY OF UTAH
1997 - DVM, OHIO STATE UNIVERSITY
1993 - BS, MIAMI UNIVERSITY

Beurtheret, Cyriaque (2004)
Associate Professor
History
2001 - PhD, UNIVERSITY OF PARIS; SORBONNE
1991 - MA, UNIVERSITY OF PARIS
1989 - BA, UNIVERSITY OF PARIS

Bickmore, Lisa (1992)
Associate Professor
English
1984 - MA, BRIGHAM YOUNG UNIVERSITY
1979 - BA, BRIGHAM YOUNG UNIVERSITY

Bielefeld, Jim (1995)
Instructor
Culinary Arts
2010 - BBA, STRAYER UNIVERSITY

Blevins, James (1992)
Associate Professor
Biology
1991 - MS, WESTERN WASHINGTON UNIVERSITY
1987 - BS, BOISE STATE UNIVERSITY

Boone, Therese (1982)
Associate Professor
Fine Arts
1991 - MS, UNIVERSITY OF UTAH
1979 - BFA, UNIVERSITY OF UTAH

Bower, Jean (2009)
Assistant Professor
Biotechnology
2007 - PhD, UNIVERSITY OF UTAH
2000 - BA, CARLETON COLLEGE

Bown, H. Louise (1991)
Associate Professor
English
1991 - MA, UTAH STATE UNIVERSITY
1970 - BA, UNIVERSITY OF UTAH

Bradford, Laura (1986)
Associate Professor
Language
1992 - MA, UNIVERSITY OF UTAH
1990 - BA, UNIVERSITY OF UTAH
1988 - AAS, SALT LAKE COMMUNITY COLLEGE

Braun, Judith (1989)
Associate Professor
Learning Enhancement
2000 - MEd, UNIVERSITY OF UTAH
1981 - BS, WEST VIRGINIA UNIVERSITY

Breedlove, William (1995)
Instructor
Automotive Technology

Briggs, Sue (2001)
Associate Professor
English
1978 - MS, TROY STATE UNIVERSITY
1973 - BA, VALDOSTA STATE COLLEGE

Brinton, Lee (1995)
Associate Professor
Engineering
1984 - MS, UNIVERSITY OF UTAH
1983 - BS, UNIVERSITY OF UTAH

Brown, Norman (2005)
Instructor
Automotive Technology
2007 - CERT, NATIONAL INSTITUTE OF AUTOMOTIVE SERVICE
2006 - CERT, NATIONAL INSTITUTE OF AUTOMOTIVE SERVICE
1978 - DPL, SOUTHERN ALBERTA INSTITUTE OF TECHNOLOGY

Budd, Brent (1987)
Assistant Professor
Visual Art & Design
1972 - BFA, UNIVERSITY OF UTAH

Buhler, Kathy (2013)
Instructor
Nursing
2009 - MSN, WALDEN UNIVERISTY
1998 - BSN, WEBER STATE UNIVERSITY
1981 - ASN, WEBER STATE UNIVERSITY

Buhler, Roderick (2003)
Assistant Professor
Computer Information Sys
2013 - MS, WESTERN GOVERNORS UNIVERSITY
1992 - BS, WEBER STATE UNIVERSITY

Burns, Robert (2004)
Associate Professor
Communication
1989 - MA, OREGON STATE UNIVERSITY
1987 - BA, OREGON STATE UNIVERSITY

Carney, David (2001)
Assistant Professor
Visual Art & Design
1991 - MA, UNIVERSITY OF IOWA
1988 - BA, UNIVERSITY OF IOWA

Carpenter, Daniel (2005)
Instructor
Biology
1998 - MS, UNIVERSITY OF TEXAS, ARLINGTON
1996 - BS, MESA STATE COLLEGE

Carroll, Diana (1989)
Assistant Professor
Medical Assistant
1981 - AS, STEVENS HENAGER

Cartwright, Kristin (2010)
Lecturer
Mathematics
2010 - MS, BRIGHAM YOUNG UNIVERSITY
2010 - BS, BRIGHAM YOUNG UNIVERSITY

Case, Christopher (1995)
Assistant Professor
History
2002 - PhD, UNIVERSITY OF NORTHERN ARIZONA
1987 - MA, UNIVERSITY OF NEVADA
1983 - BA, UNIVERSITY OF NEVADA

Celestino, James (2005)
Associate Professor
English
2006 - MFA, ANTIOCH LA UNIVERSITY
2004 - BA, UNIVERSITY OF UTAH

Chambers, Sheila (1991)
Professor
Visual Art & Design
1998 - MFA, MARYWOOD UNIVERSITY
1981 - BA, CALIFORNIA STATE UNIVERSITY

Chelemes, Basil (1990)
Associate Professor
Business Management
1990 - MBA, WESTMINSTER COLLEGE
1988 - BS, WESTMINSTER COLLEGE

Chen, Gianming (1997)
Professor
Computer Information Sys
1991 - EE, UNIVERSITY OF UTAH
1988 - MS, UNIVERSITY OF UTAH
1982 - BS, NATIONAL CENTRAL UNIVERSITY TAIWAN

Christensen, Larry (1970)
Associate Professor
Psychology
1973 - MEd, BRIGHAM YOUNG UNIVERSITY
1967 - BS, BRIGHAM YOUNG UNIVERSITY

Christiansen, Ron (1997)
Associate Professor
English
1998 - MEd, UNIVERSITY OF UTAH
1994 - BA, BRIGHAM YOUNG UNIVERSITY
2002 - ESL, STATE OF UTAH EDUCATION

Christopher, Betsy (2008)
Assistant Professor
Nursing
2008 - MSN, WESTMINISTER COLLEGE
1980 - BSN, UNIVERSITY OF SAN DIEGO

Clark, Carolyn (1994)
Professor
Communication
1996 - PhD, UNIVERSITY OF UTAH
1973 - MA, UNIVERSITY OF WASHINGTON
1971 - BS, STANFORD UNIVERSITY
1975 - CERT, UNIVERSITY OF CA., DAVIS

Clark, Jon (2006)
Associate Professor
Fine Arts
1986 - MFA, UTAH STATE UNIVERSITY
1981 - BFA, UNIVERSITY OF UTAH
1975 - AS, SNOW COLLEGE

Clark, Norman (1986)
Associate Professor
Architectural Technology
2004 - MS, UTAH STATE UNIVERSITY
2001 - BS, UTAH STATE UNIVERSITY

Clarkson, Joel (2000)
Instructor
Engineering, Drafting & Dsgn
1999 - BS, WEBER STATE
1997 - AAS, SALT LAKE COMMUNITY COLLEGE

Close, John (1992)
Professor
Mathematics
1991 - MS, UNIVERSITY OF UTAH
1988 - MA, MANKATO STATE UNIVERSITY
1978 - BS, ST. JOHN UNIVERSITY

Cole, Nathan (1994)
Assistant Professor
English
1994 - MA, BRIGHAM YOUNG UNIVERSITY
1992 - BA, SAN DIEGO STATE

Costello, Aart (2005)
Associate Professor
Mathematics
2005 - MS, UNIVERSITY OF UTAH
1997 - BS, UNIVERISTY OF UTAH

Courtney, Jennifer (1999)
Associate Professor
English
1998 - MA, SAN DIEGO STATE UNIVERSITY
1994 - BA, UNIVERSITY OF CALIFORNIA RIVERSIDE

Cox, Gary (2010)
Assistant Professor
Criminal Justice
2006 - MA, UNIVERSITY OF PHOENIX
1993 - BS, WEBER STATE UNIVERSITY

Crittenden, Andrea (2003)
Professor
Nursing
2013 - DNP, UNIVERSITY OF UTAH
1999 - MSN, UNIVERSITY OF UTAH
1997 - BSN, UNIVERSITY OF UTAH
1996 - AS, SALT LAKE COMMUNITY COLLEGE
1995 - AAS, SALT LAKE COMMUNITY COLLEGE

Crowther, Elizabeth (2010)
Instructor
Nursing
2010 - MSNed, WESTMINSTER COLLEGE
2000 - BSN, GEORGE MASON UNIVERSITY
1997 - ADN, GERMANNA COMMUNITY COLLEGE

Cunningham, Walter (1994)
Associate Professor
Surveying
1988 - BS, BRIGHAM YOUNG UNIVERSITY
1991 - PLS, STATE OF UTAH

Curran, Jessica (2011)
Assistant Professor
Visual Art & Design
2008 - MS, KEAN UNIVERSITY
2013 - MFA, FULL SAIL UNIVERSITY
2006 - BS, CALIFORNIA UNIVERSITY OF PENNSYLVANIA

Dastrup, Robert (1998)
Associate Professor
Geoscience
2006 - MA, UNIVERSITY OF UTAH
2002 - BS, UNIVERSITY OF UTAH
2000 - AS, SALT LAKE COMMUNITY COLLEGE
2000 - AS, SALT LAKE COMMUNITY COLLEGE

Davenport, David (2002)
Instructor
ASL/Interpreting
2013 - MA, GALLAUDET UNIVERSITY
2011 - BS, BRIGHAM YOUNG UNIVERSITY

Davis, Mark (2008)
Instructor
Div of Comm & Performing Arts
2005 - MAT, UNIVERSITY OF PHOENIX
1992 - BA, GEORGIA STATE UNIVERSITY

Davis, Mary-Jayne (1988)
Associate Professor
English
1989 - MA, UNIVERSITY OF UTAH
1986 - BA, UNIVERSITY OF UTAH

Day, Rolayne (1976)
Professor
Marketing
1977 - MA, UTAH STATE UNIVERSITY
1973 - BS, UTAH STATE UNIVERSITY

Doelling, Jedediah (2013)
Associate Professor
Biology
1996 - PhD, WASHINGTON UNIVERSITY
1989 - MS, UNIVERSITY OF UTAH
1986 - BS, UNIVERSITY OF UTAH

Drexler, Jane (2007)
Associate Professor
Humanities
2004 - PhD, BINGHAMTON UNIVERSITY
2000 - MA, BINGHAMTON UNIVERSITY
1995 - BA, UNIVERSITY OF COLORADO

Dumas, Kimberly (2002)
Associate Professor
Nursing
2001 - MSN, WESTMINSTER
1995 - BSN, WEBER STATE UNIVERSITY
1989 - ADN, WEBER STATE UNIVERSITY

Dunne, Gordon (2008)
Instructor
English
2005 - MA, UNIVERSITY COLLEGE
2002 - BA, TRINITY COLLEGE

Dykman, James (1995)
Associate Professor
History
1986 - MPA, BRIGHAM YOUNG UNIVERSITY
1976 - MA, BRIGHAM YOUNG UNIVERSITY

Ebira, Takashi (1996)
Assistant Professor
Language
2001 - MA, UNIVERSITY OF UTAH
1999 - BA, UNIVERSITY OF UTAH

Ellington, George (1995)
Associate Professor
ESL
2001 - MA, UNIVERSITY OF UTAH
1990 - MA, SAN FRANCISCO STATE UNIVERSITY
1987 - BA, SAN FRANCISCO STATE UNIVERSITY
1998 - BA, UNIVERSITY OF UTAH

Emett, Ray (1981)
Professor
Learning Enhancement
1988 - MS, UTAH STATE UNIVERSITY
1977 - BS, UNIVERSITY OF UTAH

Engh, Edward (2000)
Assistant Professor
Business Management
1984 - MBA, UNIVERSITY OF UTAH
1981 - BS, UNIVERSITY OF UTAH

Eppler, Kathryn (1992)
Professor
Mathematics
1986 - MS, UNIVERSITY OF UTAH
1997 - MS, UNIVERSITY OF UTAH
1993 - BS, UNIVERSITY OF UTAH
1984 - BS, UNIVERSITY OF UTAH

Erbacher, Julia (2008)
Assistant Professor
Health & Lifetime Activities
2007 - MS, UNIVERSITY OF UTAH
2005 - BS, UNIVERSITY OF DAYTON
2007 - RD, UNIVERSITY OF UTAH

Erekson, James (2007)
Assistant Professor
Visual Art & Design
2005 - BFA, BRIGHAM YOUNG UNIVERSITY
1994 - AAS, SALT LAKE COMMUNITY COLLEGE
2000 - AS, THE ART INSTITUTE OF PORTLAND

Espil, John (2007)
Instructor
Automotive Technology

Fail, Chad (2002)
Associate Professor
Building Construction
2002 - BS, UTAH VALLEY STATE COLLEGE
1998 - AAS, SALT LAKE COMMUNITY COLLEGE
2000 - AAS, SALT LAKE COMMUNITY COLLEGE

Fait, Lyndsay (2013)
Instructor
Occupational Therapy
2012 - BS, UNIVERSITY OF PHOENIX
1999 - AS, SNOW COLLEGE
2007 - AAS, SALT LAKE COMMUNITY COLLEGE

Farida, Sara (2003)
Associate Professor
Engineering
1990 - PhD, GULBARGA UNIVERSITY, GULBARGA INDIA
1979 - MS, KARNATAK UNIVERSITY, DHARWAD INDIA
1977 - BS, KARNATAK UNIVERSITY, DHARWAD INDIA

Farnsworth, Steven (2012)
Instructor
Biology
1990 - MD, UNIVERSITY OF UTAH
1986 - BS, UNIVERSITY OF UTAH

Farr, Melaney (2003)
Assistant Professor
Biology
1999 - MS, UNIVERSITY OF NORTH TEXAS
1994 - BS, UNIVERSITY OF NORTH TEXAS

Fazzio, Steffeny (1985)
Associate Professor
English
1991 - MA, UTAH STATE UNIVERSITY
1969 - BA, UNIVERSITY OF UTAH
1966 - AA, COLLEGE OF EASTERN UTAH

Fernley, Allison (1989)
Associate Professor
English
1984 - MA, UNIVERSITY OF UTAH
1982 - BA, UNIVERSITY OF UTAH
1982 - BA, UNIVERSITY OF UTAH

Ferrin, Craig (2002)
Assistant Professor
Fine Arts
2003 - PhD, UNIVERSITY OF UTAH
1987 - MS, NORTHWESTERN UNIVERSITY
1986 - BM, UNIVERSITY OF UTAH

Fields, Lara (1995)
Instructor
Psychology
1990 - MA, GODDARD COLLEGE
1985 - BA, GODDARD COLLEGE

Fillingim, Ana (2005)
Instructor
English
2003 - MA, UNIVERSITY OF UTAH
1982 - BA, UNIVERSITY OF MONTANA, MISSOULA

Flynt, Shannon (2008)
Assistant Professor
Psychology
2006 - MS, UNIVERSITY OF CENTRAL ARKANSAS
1999 - BA, ARKANSAS TECH UNIVERSITY

Fogg, Steven (2000)
Assistant Professor
SAT MS Technician
2007 - AS, SLAT LAKE COMMUNITY COLLEGE
1999 - CERT, CERTIFIED CAREERS INSTITUTE
2004 - CERT, COMP TIA

Ford, Steve (1981)
Assistant Professor
Welding
1980 - AAS, SALT LAKE COMMUNITY COLLEGE
1975 - AAS, SALT LAKE COMMUNITY COLLEGE

Fore, Miles (2014)
Instructor
Mathematics
2013 - MS, UNIVERISTY OF UTAH
2009 - BS, UNIVERISTY OF UTAH
2007 - AS, SNOW COLLEGE

Freeman, Kenneth (1994)
Professor
Physical Therapy
1991 - MS, RUTGERS
1984 - BS, BRIGHAM YOUNG UNIVERSITY

Frisbey, Gordon (1979)
Professor
Computer Information Sys
1990 - MS, WESTMINSTER COLLEGE
1972 - BS, WEBER STATE UNIVERSITY

Gallegos, Joseph (1991)
Associate Professor
Mathematics
1992 - MS, UNIVERSITY OF UTAH
1986 - BS, UNIVERSITY OF UTAH

Gardner, Brenda (2011)
Assistant Professor
Mathematics
2007 - MA, WESTERN GOVERNORS UNIVERSITY
1997 - BS, UTAH STATE UNIVERSITY

Gay, Julie (1990)
Associate Professor
School of Prof & Econ Devlpmnt
1989 - MS, UTAH STATE UNIVERSITY
1988 - BS, UTAH STATE UNIVERSITY

Giddings, Catherine (2012)
Instructor
Pre Teacher Education
1999 - MS, BRIGHAM YOUNG UNIVERSITY
1996 - BS, BRIGHAM YOUNG UNIVERSITY

Giddings, Luther (2001)
Assistant Professor
Chemistry
1993 - PhD, OHIO STATE UNIVERSITY
1985 - BS, UNIVERSITY OF UTAH

Glines, Mark (1990)
Associate Professor
Mathematics
1999 - MEd, WEBER STATE UNIVERSITY
1986 - BS, WEBER STATE UNIVERSITY

Gold, Joshua (2001)
Associate Professor
Political Science
1994 - PhD, UNIVERSITY OF OREGON
1988 - MA, UNIVERSITY OF OREGON
1980 - BA, STATE UNIVERSITY OF NEW YORK

Gonzales, Christine (1990)
Assistant Professor
Language
1979 - MA, BRIGHAM YOUNG UNIVERSITY
1973 - BA, BRIGHAM YOUNG UNIVERSITY

Gonzales, Kerry (1997)
Associate Professor
Visual Art & Design
1980 - BFA, UNIVERSITY OF UTAH

Graham, Anne (1993)
Professor
Sociology
1974 - PhD, STANFORD
1970 - MA, STANFORD
1967 - BA, WASHINGTON UNIVERSITY – ST. LOUIS

Graham, Richard (1983)
Professor
Visual Art & Design
1996 - MFA, UNIVERSITY OF UTAH
1991 - BFA, UNIVERSITY OF UTAH

Green, Brent (2006)
Associate Professor
English
2007 - PhD, UNIVERSITY OF CALIFORNA, LOS ANGELES
2005 - PhD, UNIVERSITY OF CALIFORNA, LOS ANGELES
1993 - MA, BRIGHAM YOUNG UNIVERSITY
1990 - BA, BRIGHAM YOUNG UNIVERSITY HAWAII

Green, Eric (2003)
Associate Professor
Biology
2000 - PhD, UNIVERSITY OF CALIFORNIA BERKELEY
1994 - BS, UNIVERSITY OF NEBRASKA

Gren, Donald (1988)
Professor
Business Management
2004 - PhD, UNIVERSITY OF UTAH
1988 - MBA, UNIVERSITY OF UTAH
1985 - MS, BRIGHAM YOUNG UNIVERSITY
1983 - BS, BRIGHAM YOUNG UNIVERSITY
1980 - AS, RICKS COLLEGE

Griffith, Maria (2000)
Assistant Professor
English
2002 - MA, UNIVERSITY OF PHOENIX
1975 - BA, CALIFORNIA STATE UNIVERSITY

Grover, Neal (1965)
Professor
Automotive Technology
1976 - MS, UTAH STATE UNIVERSITY
1979 - MIE, UTAH STATE UNIVERSITY
1976 - BS, UTAH STATE UNIVERSITY

Gruendell, Lana (1987)
Professor
Visual Art & Design
2008 - MEd, UTAH STATE UNIVERSITY
1990 - BFA, UNIVERSITY OF UTAH
1979 - AAS, UTAH TECHNICAL COLLEGE

Gunn, Wendy (2010)
Instructor
Accounting
2000 - MS, UNIVERSITY OF UTAH
1999 - BS, UNIVERSITY OF UTAH
1997 - AS, SALT LAKE COMMUNITY COLLEGE

Hahnenberger, Maura (2014)
Instructor
Geoscience
2008 - MS, UNIVERISTY OF UTAH
2005 - BS, UNIVERSITY OF UTAH

Haider, Shawna (1993)
Associate Professor
Mathematics
1999 - MS, UNIVERSITY OF UTAH
1987 - BS, UNIVERSITY OF UTAH

Harbaugh, Chad (2010)
Assistant Professor
Health & Lifetime Activities
2001 - MS, SOUTHERN ILLINOIS UNIVERISTY
1996 - BS, EASTERN ILLINOIS UNIVERSITY

Harmer, Maryln (1998)
Associate Professor
Health & Lifetime Activities
1989 - MS, US SPORT ACADEMY
1986 - BS, UTAH STATE UNIVERSITY

Harpster, Lora (1991)
Assistant Professor
Psychology
1993 - MS, UNIVERSITY OF UTAH
1988 - BS, UNIVERSITY OF UTAH

Harwell, Jerri (1999)
Associate Professor
English
2013 - M.Ed, WESTERN GOVERNORS UNIVERSITY
1979 - BA, OAKLAND UNIVERSITY

Hatfield, Shauna (1998)
Professor
Accounting
1990 - MS, WEBER STATE UNIVERSITY
1989 - BS, WEBER STATE UNIVERSITY

Heaton, Julie (2011)
Instructor
Fine Arts
2004 - MFA, UNIVERSITY OF NEVADA
2001 - BA, UNIVERSITY OF UTAH

Helquist, Melissa (2002)
Associate Professor
English
2000 - MA, COLORADO STATE UNIVERSITY
1998 - BA, BRIGHAM YOUNG UNIVERSITY

Hemming, Charles (1998)
Instructor
Mathematics
1995 - MS, IDAHO STATE UNIVERSITY
1995 - BS, IDAHO STATE UNIVERSITY

Hess, David (2011)
Instructor
Mortuary Science
1991 - MS, SOUTHERN ILLINOIS UNIVERSITY
1986 - BA, SOUTHERN ILLINOIS UNIVERSITY
1983 - AA, SOUTHERN ILLINOIS UNIVERSITY

Hess, Martha (1997)
Assistant Professor
SAT Adult Basic Ed
1970 - MA, UTAH STATE UNIVERSITY
1964 - BS, UTAH STATE UNIVERSITY

Hibbert, Marilyn (1976)
Associate Professor
Computer Information Sys
1970 - BS, UTAH STATE UNIVERSITY

Higgins, Judith (2001)
Associate Professor
History
1994 - MA, UNIVERSITY OF KANSAS
1999 - MA, UNIVERSITY OF KANSAS
1992 - BS, UNIVERSITY OF UTAH

Hill, John (2000)
Professor
Criminal Justice
2007 - EdD, NOVA SOUTHEASTERN UNIERSITY
2001 - DCJ, HAWTHORNE UNIVERSITY
1993 - MS, JERSEY CITY STATE COLLEGE
2001 - MA, NEW JERSEY CITY UNIVERSITY
1993 - MS, JERSEY CITY STATE COLLEGE

Himle, Kathy (1996)
Associate Professor
SAT MS Technician
2006 - BS, EXCELSIOR COLLEGE
2003 - AS, SALT LAKE COMMUNITY COLLEGE
1997 - CNE, NOVELL
2002 - COMP TIA
2002 - CERT, COMP TIA SERVER+

Hopkins, Marianna (1982)
Associate Professor
English
1992 - MS, UTAH STATE UNIVERSITY
1973 - BA, UNIVERSITY OF UTAH
1982 - ESL, UNIVERSITY OF UTAH

Horning, Jaime (2010)
Instructor
Aviation Maintenance
2011 - AAS, SALT LAKE COMMUNITY COLLEGE

Hoskisson, Tamora (2011)
Instructor
History
2009 - PhD, NORTHERN ARIZONA UNIVERSITY
1993 - MA, INDIANA UNIVERSITY
2000 - MA, UTAH STATE UNIVERSITY
1989 - BA, BRIGHAM YOUNG UNIVERSITY

Howard, Gary (1993)
Associate Professor
English
1977 - MA, UNIVERSITY OF PITTSBURGH
1974 - BA, UNIVERSITY OF PITTSBURGH

Howe, Charlotte (2002)
Assistant Professor
English
2001 - MA, WESTMINSTER COLLEGE
1982 - BA, UNIVERSITY OF UTAH

Howell, Joseph (1984)
Professor
Finance & Credit
1983 - JD, UNIVERSITY OF UTAH
1978 - MBA, UNIVERSITY OF UTAH
1976 - BS, UNIVERSITY OF UTAH
1976 - BS, UNIVERSITY OF UTAH

Huber, Dean (1990)
Associate Professor
ESL
1981 - MA , UNIVERSITY OF UTAH
1977 - BA , UNIVERSITY OF UTAH

Hubert, David (1994)
Professor
Political Science
1997 - PhD, UNIVERSITY OF CONNECTICUT
1990 - MA, UNIVERSITY OF CONNECTICUT
1987 - BS, COLORADO STATE UNIVERSITY

Hunter, Darren (2005)
Instructor
Computer Science
2013 - MBA, WESTERN GOVERNORS UNIVERSITY
2009 - BS, WEBER STATE UNIVERSITY
2006 - AS, SALT LAKE COMMUNITY COLLEGE

Hyans, Whitney (1998)
Associate Professor
Visual Art & Design
1996 - MFA, SAVANNAH COLLEGE OF ART & DESIGN
1990 - BS, WEBER STATE
1993 - BFA, WEBER STATE

Ibarra, Gustavo (1994)
Professor
Health & Lifetime Activities
1980 - PhD, BRIGHAM YOUNG UNIVERSITY
1976 - MS, BRIGHAM YOUNG UNIVERSITY
1974 - BS, ESCUELA NORMAL SUPERIOR DE NAYARIT

Ingle, Howard (1982)
Associate Professor
Psychology
1991 - MEd, UNIVERSITY OF UTAH
1972 - BS, CENTERAL MICHIGAN UNIVERSITY
2004 - LPC, STATE OF UTAH

Izrailevsky, Alexander (2000)
Associate Professor
Humanities
1980 - PhD, ACADEMY OF SCIENCE OF THE USSR
1974 - MA, GORKY URAL STATE UNIVERSITY
1974 - BA, GORKY URAL STATE UNIVERSITY

Jackson, Debora (2006)
Associate Professor
Nursing
2004 - MSN, UNIVERSITY OF UTAH
2001 - BSN, UNIVERSITY OF UTAH
1994 - ASN, REGENTS

Jacobs, Suzanne (2001)
Associate Professor
Humanities
1997 - MS, UNIVERSITY OF COLORADO AT BOULDER
2000 - MA, UNIVERSITY OF UTAH
1993 - BS, COLGATE UNIVERSITY

Jarvis, Mark (2013)
Assistant Professor
Family & Human Studies
2011 - JD, UNIVERSITY OF UTAH
2006 - PhD, UNIVERSITY OF TEXAS
2000 - MS, BRIGHAM YOUNG UNIVERSITY
1997 - BS, BRIGHAM YOUNG UNIVERSITY

Jensen, DeeAnn (1989)
Professor
SAT OIS
1975 - MS, BRIGHAM YOUNG UNIVERSITY
1974 - BS, BRIGHAM YOUNG UNIVERSITY
2003 - CCS-P, AMERICAN HEALTH INFORMATION MANAGEMENT ASSN

Jensen, K. C. (2000)
Professor
Paralegal
1990 - JD, BRIGHAM YOUNG UNIVERSITY
1982 - BS, BRIGHAM YOUNG UNIVERSITY
1980 - AS, CATONSVILLE COMMUNITY COLLEGE

Jensen, Weltha (2006)
Associate Professor
Nursing
1997 - MSN, UNIVERSITY OF UTAH
1991 - BSN, WEBER STATE UNIVERSITY
1980 - ADN, WEBER STATE UNIVERSITY
1978 - LPN, SALT LAKE COMMUNITY COLLEGE
1997 - APRN, AMERICAN NURSES CREDENTIALING CENTER

Jewkes, Kathleen (2008)
Assistant Professor
Nursing
2005 - MSN, UNIERSITY OF PHOENIX
1974 - BSN, UNIVERSITY OF UTAH

Johnson, Boyd (2006)
Instructor
Building Construction

Johnson, Christopher (2014)
Assistant Professor
Geoscience
2001 - MS, UNIVERISTY OF KANSAS
1997 - BS, UNIVERSITY OF WISCONSIN

Johnson, Roger (1991)
Assistant Professor
Communication
2000 - MS, BRIGHAM YOUNG UNIVERSITY
1987 - BS, UNIVERSITY OF UTAH

Johnston, Kathleen (1998)
Instructor
English
1987 - MA, UNIVERSITY OF SOUTHERN CALIFORNIA
1976 - BA, UC SANTA CRUZ

Jones, Elizabeth (2010)
Instructor
Mathematics
2010 - MS, BAYLOR COLLEGE OF MEDICINE
2003 - BS, SCRIPPS COLLEGE

Jones, Shirley (1992)
Professor
Communication
1993 - PhD, UNIVERSITY OF UTAH
1969 - MA, UNIVERSITY OF UTAH
1961 - BA, BRIGHAM YOUNG UNIVERSITY

Jorgensen, John (1992)
Associate Professor
SAT OIS
2004 - MEd, UTAH STATE UNIVERSITY
1988 - BS, WEBER STATE UNIVERSITY
1992 - BS, WEBER STATE UNIVERSITY

Jory, Justin (2013)
Assistant Professor
English
2005 - BA, TEXAS A & M

Kanehara, Art (1994)
Associate Professor
Communication
1993 - MS, UNIVERSITY OF UTAH
1989 - BS, UNIVERSITY OF UTAH

Kasai, Susumu (1997)
Professor
Computer Information Sys
1997 - MS, UNIVERSITY OF MISSOURI – ST. LOUIS
1992 - MA, UNIVERSITY OF MISSOURI – COLUMBIA
1973 - BA, CARLETON COLLEGE

Kidd, James (2004)
Instructor
Mathematics
1969 - MA, JOHNS HOPKINS
1968 - BS, UTAH STATE UNIVERSITY

Killinger, Karen (1995)
Associate Professor
Business Management
1992 - MBAA, EMBRY-RIDDLE AERONAUTICAL UNIVERSITY
1982 - BBA, FT. VALLEY STATE COLLEGE

Kilpatrick, Lynn (2002)
Associate Professor
English
2004 - PhD, UNIVERSITY OF UTAH
1998 - MA, WESTERN WASHINGTON UNIVERSITY
1991 - BA, UNIVERSITY OF OREGON

King, Kevin (1996)
Assistant Professor
Architectural Technology
1989 - BA, CALIFORNIA POLYTECHNIC STATE UNIVERSITY

Kinner, Duane (2001)
Instructor
ASL/Interpreting
1999 - BS, GALLAUDET

Kleman, Billy (2010)
Instructor
Diesel Systems Tech
1974 - BS, TEXAS TECH UNIVERSITY

Koziatek, Randal (1992)
Professor
Computer Information Sys
1985 - MS, INDIANA UNIVERSITY
1984 - BS, INDIANA UNIVERSITY

Kranendonk, Mark (1994)
Assistant Professor
Diesel Systems Tech
1997 - AS, SALT LAKE COMMUNITY COLLEGE

Kulinsky, Carla (1988)
Associate Professor
Mathematics
1998 - MS, UNIVERSITY OF UTAH
1979 - BA, UNIVERSITY OF DENVER
1993 - BS, UNIVERSITY OF UTAH

Kwan, Karen (2000)
Associate Professor
Psychology
2008 - EdD, UNIVERSITY OF UTAH
1988 - MA, PEPPERDINE UNIVERSITY
1985 - BA, PEPPERDINE UNIVERSITY

Labasky, Susan (1990)
Professor
Nursing
2005 - PhD, UNIVERSITY OF UTAH
1987 - MSN, BRIGHAM YOUNG UNIVERSITY
1982 - BSN, UNIVERSITY OF UTAH

Laidlaw, Sharee (2005)
Assistant Professor
Paralegal
1989 - JD, SOUTH WEST UNIVERSITY OF LAW
1986 - BS, CALIFORNIA STATE UNIVERSITY

Lambert, Melodee (1985)
Associate Professor
Business Management
1980 - MEd, UNIVERSITY OF UTAH
1970 - BS, BRIGHAM YOUNG UNIVERSITY

Lange, George (1986)
Instructor
SAT Refrigeration & Air Cond
1984 - CERT, SALT LAKE COMMUNITY COLLEGE

Lawyer, Rachel (1992)
Associate Professor
Mathematics
2000 - MS, UNIVERSITY OF UTAH
1971 - BS, UTAH STATE UNIVERSITY

LeDuc, Eric (2012)
Instructor
Business Management
2005 - MS, ARIZONA STATE UNIVERSITY
1995 - BA, BRIGHAM YOUNG UNIVERISTY

Lee, Roger (1991)
Professor
Business Management
1980 - PhD, UNIVERSITY OF UTAH
1973 - MPA, BRIGHAM YOUNG UNIVERSITY
1977 - MBA, UTAH STATE UNIVERSITY
1969 - BS, WEBERT STATE COLLEGE

Lerdahl, Paul (1987)
Professor
Learning Enhancement
2006 - MA, JONES INTERNATIONAL UNIVERSITY
1999 - MS, UTAH STATE UNIVERSITY
1973 - BS, UNIVERSITY OF UTAH
1984 - AAS, SALT LAKE COMMUNITY COLLEGE
1989 - AAS, SALT LAKE COMMUNITY COLLEGE

Little, Marilyn (1991)
Professor
SAT Nurse Assistant
1987 - MSN, UNIVERSITY OF UTAH
1984 - BS, UNIVERSITY OF UTAH

Longhurst, Cristin (1991)
Associate Professor
English
1973 - MA, BRIGHAM YOUNG UNIVERSITY
1971 - BA, UNIVERSITY OF CALIFORNIA LOS ANGELES

Longo, Jon (1998)
Instructor
Automotive Technology
1995 - AS, CLINTON COMMUNITY COLLEGE
2005 - UTAH STATE BOARD OF EDUCATION
2005 - MSE, NATIONAL INSITUTE AUTOMOTIVE SERVICE EXCELLENCE

Lowe, Channing (2007)
Instructor
Fine Arts
1996 - BA, UNIVERSITY OF UTAH

Lowell, Rebecca (2008)
Instructor
Radiological Technology
2006 - MS, MIDWESTERN UNIVERSITY
2006 - BS, WEBER STATE UNIVERSITY
1996 - BS, WEBER STATE UNIVERSITY
1991 - AAS, WESTERN WYOMING COMMUNITY COLLEGE

Lyman, Brenda (1993)
Professor
Occupational Therapy
1983 - BS, COLORADO STATE UNIVERSITY
1993 - , AMERICAN OCCUPATIONAL THERAPY ASSN

Maenhardt, Stephanie (1999)
Associate Professor
English
1999 - PhD, INDIANA UNIVERSITY OF PA
1995 - MA, BRIGHAM YOUNG UNIVERSITY
1993 - BA, BRIGHAM YOUNG UNIVERSITY

Magnusson, Kjartan (1972)
Professor
Economics
1989 - EdD, BRIGHAM YOUNG UNIVERSITY
1978 - MEd, UTAH STATE UNIVERSITY
1968 - BA, BRIGHAM YOUNG UNIVERSITY

Malouf, Andrea (2006)
Associate Professor
English
1999 - MA, UNIVERSITY OF UTAH
1992 - BA, UNIVERSITY OF UTAH

Martin, Terry (1986)
Assistant Professor
Visual Art & Design
1989 - AAS, SALT LAKE COMMUNITY COLLEGE

Maughan, Gregory (2007)
Instructor
Surgical Technology
1997 - CERT, IHC CERTIFICATE

Maw, Alia (2007)
Assistant Professor
Mathematics
2006 - MS, UTAH STATE UNIVERSITY
2001 - BS, UTAH STATE UNIVERSITY

McBeth-Smith, Jamie (2000)
Assistant Professor
English
1980 - MA, UNIVERSITY OF UTAH
1977 - BA, UNIVERSITY OF UTAH

McFarland, Vonadean (1985)
Associate Professor
SAT Tooele OIS
1975 - BS, BRIGHAM YOUNG UNIVERSITY

McIntyre, Katherine (1983)
Associate Professor
ESL
1978 - MS, UNIVERSITY OF UTAH
1972 - BS, COLBY COLLEGE

McKay, Ronald (2006)
Assistant Professor
Mathematics
2005 - MS, UNIVERSITY OF UTAH
2003 - BS, UNIVERSITY OF UTAH

McKay, Shirene (2006)
Associate Professor
Communication
1983 - MA, BRIGHAM YOUNG UNIVERSITY
1979 - BA, BRIGHAM YOUNG UNIVERSITY

McKertich, Alma (1984)
Professor
English
1977 - MS, UNIVERSITY OF UTAH
1974 - BS, UNIVERSITY OF UTAH

McRae, Quentin (2011)
Instructor
Engineering
2002 - MS, UNIVERSITY OF ARIZONA
1997 - BS, UNIVERSITY OF ARIZONA

Medell, Kenneth (2005)
Instructor
SAT Professional Driving

Melo, Mario Cesar (2005)
Assistant Professor
Mathematics
2004 - MA, BRIGHAM YOUNG UNIVERSITY
2002 - BA, FEDERAL UNIVERSITY OF BAHIA

Mendenhall, Marie (2009)
Instructor
Dental Hygiene
1990 - MBA, EASTERN MICIHIGAN UNIVERISTY
1985 - BS, UNIVERSITY OF MICHIGAN ANN ARBOR

Mendiola, Steven (1992)
Instructor
Aviation Maintenance
1986 - CERT, CLOVER PARK VOCATIONAL TECHNICAL INSTITUTE

Merrill, Don (1987)
Professor
Mathematics
1994 - PHD, BRIGHAM YOUNG UNIVERSITY
1985 - MS, BRIGHAM YOUNG UNIVERSITY
1971 - BS, UNIVERSITY OF UTAH

Mika, Teresa (2013)
Instructor
Biology
2013 - PhD, UNIVERISTY OF NEVADA, LAS VEGAS
1994 - BS, BRIGHAM YOUNG UNIVERISTY

Miller, Douglas (2007)
Associate Professor
Applied Technology Center
2003 - BS, WEBER STATE UNIVERSITY
1995 - AS, VERNON REGIONAL JR COLLEGE
1995 - AS, COMMUNITY COLLEGE AIR FORCE

Miller, Julia (2006)
Instructor
Applied Technology Center
2004 - RMA, AMERICAN MEDICAL TECHNOLOGIES
1993 - CMA, CLEVELAND INSTITUTE OF DENTAL-MEDICAL ASSISTANTS
2004 - CPT, ASPT, AMERICAN SOCIETY OF PHLEBOTOMY TECHNICIANS

Minichino, John (1997)
Instructor
Criminal Justice
1971 - BA, TEMPLE UNIVERSITY

Mitchell, Jana (2007)
Instructor
Surgical Technology
2006 - BS, UNIVERSITY OF UTAH
1999 - AS, SNOW COLLEGE
2001 - AS, SALT LAKE COMMUNITY COLLEGE

Montague, Elizabeth (1981)
Associate Professor
English
1990 - MS, UTAH STATE UNIVERSITY
1975 - BA, UNIVERSITY OF UTAH

Moore, Holly (1991)
Associate Professor
Engineering
1980 - PhD, UNIVERSITY OF UTAH
1976 - MS, SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY
1973 - BS, SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

Moore, Theodore (2005)
Assistant Professor
History
2004 - PhD, MICHIGAN STATE UNIVERSITY
1994 - MA, UTAH STATE UNIVERSITY
1992 - BA, BRIGHAM YOUNG UNIVERSITY

Morath, Justice (2013)
Instructor
Psychology
2011 - MA, NORTHERN ARIZONA UNIVERSITY
2006 - BA, FORT LEWIS COLLEGE

Morelli, Robert (2009)
Assistant Professor
Mathematics
1989 - PhD, HARVARD UNIVERSITY
1986 - MA, COLUMBIA UNIVERSITY NEW YORK
1983 - BA, COLUMBIA UNIVERSITY NEW YORK

Morgan, Julie (2000)
Assistant Professor
Health & Lifetime Activities
1999 - MS, ILLINOIS STATE UNIVERSITY
1982 - BS, UTAH STATE UNIVERSITY

Moss, Diane (2004)
Associate Professor
Nursing
2006 - MSN, UNIVERISTY OF PHOENIX
1998 - BSN, WEBER STATE UNVIERSITY
1992 - ASN, WEBER STATE UNIVERSITY
1977 - LPN, UTAH TECHNICAL COLLEGE PROVO

Mullins, Shannon (1996)
Associate Professor
Applied Technology Center
2012 - MEd, WESTERN GOVERNORS UNIVERSITY
2005 - BS, UNIVERSITY OF PORTLAND

Murphy, Donna (2005)
Associate Professor
Nursing
2002 - MSN, UNIVERSITY OF PHOENIX
1984 - BSN, UNIVERSITY OF UTAH
1981 - ASN, WEBER STATE UNIVERSITY
1979 - LPN, UTAH TECHNICAL COLLEGE

Neeley, Tammie (2013)
Assistant Professor
Accounting
2005 - MBA, UNIVERSITY OF UTAH
2001 - BS, UNIVERSITY OF UTAH
1999 - AS, SALT LAKE COMMUNITY COLLEGE

Neil, David (2004)
Associate Professor
Radiological Technology
1995 - MAOM, UNIVERSITY OF PHEONIX
1990 - BS, WEBER STATE UNIVERSITY
1984 - AAS, WEBER STATE UNIVERSITY

Nelson, Dale (1993)
Associate Professor
Mathematics
1972 - MEd, UNIVERSITY OF UTAH
1970 - BA, UNIVERSITY OF UTAH

Nielson, Philip (1994)
Associate Professor
Computer Information Sys
1989 - MBA, UNIVERSITY OF PHOENIX
1977 - BS, BRIGHAM YOUNG UNIVERSITY

Noble, Jeanne (1975)
Professor
SAT OIS
1972 - MS, BRIGHAM YOUNG UNIVERSITY
1970 - BS, SOUTHERN UTAH STATE

Norton, Lori (2004)
Assistant Professor
Nursing
2004 - MSN, UNIVERSITY OF PHOENIX
1995 - BSN, WEBER STATE UNIVERSITY
1992 - ASN, WEBER STATE UNIVERSITY

O`Reilly, Dennis (2010)
Instructor
Automotive Technology
1989 - AAS, SALT LAKE COMMUNITY COLLEGE

Oestreich, Lois (2002)
Associate Professor
Pre Teacher Education
2013 - Ed.S, UNIVERSITY OF NORTHER COLORADO
2002 - MEd, WESTMINSTER COLLEGE
1987 - BS, SOUTHERN OREGON UNIVERSITY
2006 - CERT., UTAH STATE BOARD OF EDUCATION

Oremus, Richard (2013)
Instructor
Mathematics
2006 - MS, HUMBOLDT STATE UNIVERSITY
2004 - BA, HUMBOLDT STATE UNIVERSITY
2001 - AS, COLLEGE OF THE REDWOODS

Pacheco, Sarah (2005)
Associate Professor
Nursing
2001 - MSN, UNIVERSITY OF PHOENIX
2002 - MBA, UNIVERSITY OF PHEONIX
1997 - BS, UNIVERSITY OF PHOENIX
1990 - ASN, GULF COAST COMMUNITY COLLEGE

Pardo, Diego (2005)
Assistant Professor
Applied Technology Center

Paulsen, Paige (1991)
Associate Professor
Accounting
1983 - MS, BRIGHAM YOUNG UNIVERSITY
1981 - BS, UNIVERSITY OF UTAH

Paxton, Laurie (1990)
Assistant Professor
Mathematics
1996 - MEd, UTAH STATE UNIVERSITY
1987 - BS, UTAH STATE UNIVERSITY

Peterson, Claire (2008)
Instructor
Humanities
2001 - MA, QUEEN'S UNIVERSITY BELFAST
1997 - BA, UNIVERSITY OF ULSTER

Phillips, Tamra (1999)
Associate Professor
Communication
1999 - MS, UNIVERISTY OF UTAH
1995 - BS, UNIVERSITY OF UTAH

Plant, Jeffrey (1994)
Professor
Architectural Technology
1993 - MS, UNIVERSITY OF UTAH
1975 - BA, BOWLING GREEN STATE UNIVERSITY
1991 - BS, UNIVERSITY OF UTAH

Ploeger, Diana (1992)
Professor
Physical Therapy
1999 - MEd, UTAH STATE UNIVERSITY
1975 - BS, UNIVERSITY OF COLORADO

Poole, Daniel (2010)
Instructor
Sociology
2009 - MS, UNIVERSITY OF UTAH
2005 - BS, UNIVERSITY OF UTAH
2002 - AA, DIXIE STATE COLLEGE

Posch, Margarethe (2010)
Instructor
Computer Science
1991 - MS, VIENNA UNIVERSITY OF TECHNOLOGY

Punzalan, Celestina (1993)
Professor
Mathematics
1989 - MBA, SAN SEBASTIAN COLLEGE
1996 - MS, UTAH STATE UNIVERSITY
1987 - BS, SAN SEBASTIAN COLLEGE
1965 - BS, FEATI UNIVERSITY

Randa, Ernest (1993)
Professor
History
1990 - PhD, UNIVERSITY OF UTAH
1980 - MS, WESTERN UNIVERSITY OF WASHINGTON
1974 - BS, UNIVERSITY OF UTAH

Reiland, Neal (1991)
Associate Professor
Visual Art & Design
1985 - BA, WASHINGTON STATE UNIVERSITY

Rettberg, Charles (2005)
Associate Professor
Biotechnology
2003 - PhD, UNIVERSITY OF UTAH
1995 - MS, UNIVERSITY OF MONTANA
1987 - BS, UNIVERSITY OF MONTANA

Richards, Donetta (1991)
Associate Professor
Health & Lifetime Activities
1992 - MA, BRIGHAM YOUNG UNIVERSITY
1979 - BS, UTAH STATE UNIVERSITY

Richards, Douglas (2001)
Associate Professor
Mathematics
1980 - MEd, BRIGHAM YOUNG UNIVERSITY
1974 - BA, BRIGHAM YOUNG UNIVERSITY

Riggs, Steven (2010)
Instructor
Mathematics
2002 - MS, UNIVERSITY OF CALIFORNIA – RIVERSIDE
2000 - BS, UNIVERSITY OF CALIFORNIA – RIVERSIDE

Roberts, Jason (2009)
Assistant Professor
English
2010 - MA, BRIGHAM YOUNG UNIVERSITY
2001 - BA, BRIGHAM YOUNG UNIVERSITY

Roberts, Paul (1996)
Assistant Professor
Health & Lifetime Activities
1996 - MS, UNIVERSITY OF UTAH
1992 - BS, UNIVERSITY OF UTAH

Robinson, Diane (2005)
Assistant Professor
Medical Assistant
2007 - AS, SALT LAKE COMMUNITY COLLEGE
2001 - CMA, SALT LAKE COMMUNITY COLLEGE

Rosenberger, Edward (2004)
Assistant Professor
Visual Art & Design
2012 - BFA, WEBER STATE UNIVERSITY
2010 - AAS, SALT LAKE COMMUNITY COLLEGE

Rousculp, Tiffany (1993)
Associate Professor
English
1993 - MA, UNIVERSITY OF SOUTHERN CALIFORNIA
1990 - BA, ARIZONA STATE UNIVERSITY

Rowsey, Julie (2003)
Assistant Professor
Nursing
2000 - MSN, UNIVERSITY OF PHOENIX
1987 - BSN, UNIVERSITY OF UTAH
1982 - ASN, WEBER STATE UNIVERSITY

Rudolph, Jane (1993)
Professor
Biology
1987 - PhD, INDIANA UNIVERSITY
1976 - BA, UNIVERSITY OF WYOMING

Sabolik, Mark (1991)
Instructor
Non Destructive Testing
1985 - NDT, HUTCHINGSON TECHNICAL COLLEGE

Safai, Nader (1988)
Professor
Engineering
1978 - PhD, PRINCETON UNIVERSITY
1974 - MSE, PRINCETON UNIVERSITY
1975 - MSE, PRINCETON UNIVERSITY
1976 - MA, PRINCETON UNIVERSITY
1972 - BSE, MICHIGAN STATE UNIVERSITY

Sahay, Amar (1992)
Professor
Business Management
1991 - PhD, UNIVERSITY OF UTAH
1986 - MS, UNIVERSITY OF UTAH
1980 - BS, BIRLA INSTITUTE OF TECHNOLOGY
1975 - AS, ST. XAVIER'S COLLEGE

Salini, Katerina (1998)
Associate Professor
Psychology
1993 - MS, UNIVERSITY OF UTAH
2001 - BS, WESTMINSTER COLLEGE
1987 - BA, UNIVERSITY OF NEW MEXICO

Sanders, Wesley (2010)
Instructor
Engineering
2008 - PhD, VIRGINIA TECH
2005 - MS, UNIVERSITY OF NORTH CAROLINA
1999 - BS Ed, WESTERN CAROLINA UNIVERSITY

Santistevan, Brenda (1997)
Assistant Professor
Mathematics
1996 - MS, NEW MEXICO STATE UNIVERSITY
1995 - BS, NEW MEXICO INST. OF MINING & TECH.

Sawitzke, Arleen (1990)
Professor
Biology
1991 - PhD, UNIVERSITY OF UTAH
1980 - BA, CARROLL COLLEGE

Schaefer, Melissa (2000)
Associate Professor
History
2011 - PhD, ARIZONA STATE UNIVERSITY
1995 - MA, ARIZONA STATE UNIVERSITY
1984 - BS, IOWQ STATE UNIVERSITY

Schaffer, David (2006)
Instructor
Physics
2007 - MS, WICHITA STATE UNIVERSITY
1982 - BS, UNIVERSITY OF UTAH

Schramm, Sarah (2008)
Assistant Professor
Family & Human Studies
1981 - MS, UNIVERISTY OF UTAH
1979 - BS, UNIVERSITY OF UTAH

Schumacker, Heather (2011)
Assistant Professor
Economics
2001 - MBA, WESTMINSTER COLLEGE
1997 - BA, COLORADO STATE UNIVERSITY
2000 - BS, WESTMINSTER COLLEGE

Schuster, Debbe (2011)
Assistant Professor
Nursing
2001 - PhD, UNIVERSITY OF ARIZONA
1987 - BSN, TEXAS TECH

Schweitzer, John (2010)
Lecturer
Mathematics
2007 - MS, NORTH CAROLINA STATE UNIVERSITY
2004 - BS, HILLSDALE COLLEGE

Seiferle, Leslie (1993)
Associate Professor
Culinary Arts
2003 - BS, UTAH STATE UNIVERSITY
1997 - AAS, SALT LAKE COMMUNITY COLLEGE
1999 - AS, SALT LAKE COMMUNITY COLLEGE
1987 - AA, CULINARY INSTITUTE OF AMERICA
1996 - CCE, AMERICAN CULINARY FEDERATION

Shipley, Russell (2009)
Associate Professor
Nursing
1999 - MSN, REGIS UNIVERSITY
1994 - BSN, REGIS UNIVERSITY

Shurtleff, Cheryl (1987)
Associate Professor
SAT ESL
1987 - MA, UNIVERSITY OF UTAH
1975 - BA, AUGUSTA COLLEGE
1987 - TESOL, UNIVERSITY OF UTAH

Sieverts, Carol (1989)
Associate Professor
English
1993 - MA, UTAH STATE UNIVERSITY
1972 - BA, BRIGHAM YOUNG UNIVERSITY

Silcox, Fiona (1997)
Associate Professor
Professional Pilot
2008 - MAS, EMBRY RIDDLE AERONAUTICAL UNIVERSITY
1994 - BS, EMBRY RIDDLE AERONAUTICAL UNIVERSITY
1994 - CERT, CERTIFICATE

Skelton, Maria (2004)
Instructor
Fashion Institute
2001 - BA, BRIGHAM YOUNG UNIVERSITY

Skinner, Celeste (2003)
Associate Professor
Applied Technology Center
2012 - BS, EXCELSIOR COLLEGE
2005 - AAT, UTAH COLLEGE OF APPLIED TECHNOLOY
2004 - AAS, EXCELSIOR COLLEGE
1999 - LRPT, STATE OF UTAH

Skousen, Don (1994)
Instructor
Business Management
1980 - MS, UNIVERSITY OF UTAH
1977 - BS, UNIVERSITY OF UTAH

Sleight, Lawrence (2005)
Assistant Professor
Paralegal
1999 - JD, UNIVERSITY OF UTAH
1996 - BS, UNIVERISTY OF UTAH

Smith, Deborah (2009)
Assistant Professor
Nursing
2000 - MSN, UNIVERSITY OF UTAH
1996 - BSN, UNIVERSITY OF PHOENIX

Smith, James (2012)
Instructor
Engineering
2009 - PhD, UNIVERSITY OF UTAH
1996 - BS, UNIVERSITY OF UTAH

Smith, Tyler (2008)
Assistant Professor
Communication
1999 - MA, UNIVERSITY OF UTAH
1997 - BA, UNIVERSITY OF UTAH

Smith, Zeph (2002)
Associate Professor
Mathematics
2001 - MS, UNIVERSITY OF UTAH
1996 - BS, UNIVERSITY OF UTAH

Soderstrom, Cindy (1992)
Associate Professor
Mathematics
2002 - MEd, WESTMINSTER COLLEGE
1998 - BS, UNIVERSITY OF UTAH
1992 - AS, SALT LAKE COMMUNITY COLLEGE

Sorensen, Mequette (1998)
Associate Professor
Social Work
1996 - MSW, UNIVERSITY OF UTAH
1991 - BA, UNIVERSITY OF UTAH

Sowards, Shari (1988)
Professor
Political Science
1971 - MS, UNIVERSITY OF UTAH
1963 - BS, UNIVERSITY OF UTAH
1961 - AS, WEBER

Spanton-Jex, Connie (2001)
Assistant Professor
ASL/Interpreting
2002 - MA, WESTERN MARYLAND COLLEGE
1988 - BS, UTAH STATE UNIVERSITY
1988 - AS, COLLEGE OF EASTERN UTAH

Sparks, Mildred (2003)
Associate Professor
English
1978 - MS, PEPPERDINE UNIVERSITY
1964 - BS, ALABAMA STATE UNIVERSITY

Sperry, Liv (2011)
Assistant Professor
Biology
2009 - PhD, BRIGHAM YOUNG UNIVERSITY
1991 - MS, BRIGHAM YOUNG UNIVERSITY
1988 - BS, BRIGHAM YOUNG UNIVERSITY

Stencel, Barbara (2001)
Professor
Nursing
1981 - MSN, UNIVERSITY OF UTAH
1977 - BSN, UNIVERSITY OF UTAH
1972 - RN, RAVENWOOD HOSPITAL SCHOOL

Stenquist, Michael (2008)
Instructor
Engineering, Drafting & Dsgn
1982 - BS, UTAH STATE UNIVERSITY

Stephenson, Brittany (2001)
Associate Professor
English
1999 - MA, UTAH STATE UNIVERSITY
2013 - MS, UTAH STATE UNIVERSITY
1994 - BA, UNIVERSITY OF UTAH

Stone, Elisa (1993)
Associate Professor
English
1993 - MA, UNIVERSITY OF UTAH
1990 - BA, UTAH STATE UNIVERSITY
1988 - AA, RICKS COLLEGE

Stowers, Jonathan (1988)
Associate Professor
Language
1984 - MA, UNIVERSITY OF UTAH
1981 - BA, UNIVERSITY OF UTAH
1981 - BFA, UNIVERSITY OF UTAH

Stuwe, TC (2003)
Associate Professor
Learning Enhancement
1999 - MS, PORTAND STATE UNIVERSITY
1997 - BA, LINFIELD COLLEGE
1995 - AA, CHEMEKETA STATE UNIVERSITY

Sue, Stephen (2011)
Instructor
Fine Arts
2011 - MA, SUNY FREDONIA
2007 - BA, UNIVERSITY AT BUFFALO
2000 - AA, JAMESTOWN COMMUNITY COLLEGE

Suetorsak, Rungrudee (2007)
Associate Professor
Economics
2004 - PhD, UNIVERSITY OF UTAH
1999 - MA, UNIVERISTY OF UTAH
1995 - MS, CHULALONGKORN UNIVERSITY

Sutliff, Daniel (2012)
Instructor
Professional Pilot
2012 - MS, EMBRY RIDDLE AERONAUTICAL UNIVERSITY
1983 - BS, STATE UNIVERSITY OF NEW YORK

Tang, Shane (2003)
Associate Professor
Mathematics
2001 - MS, BRIGHAM YOUNG UNIVERSITY
1999 - BS, BRIGHAM YOUNG UNIVERSITY
1999 - AS, UTAH VALLEY STATE COLLEGE

Tanner, Allen (2010)
Instructor
Engineering, Drafting & Dsgn
2003 - MS, UNIVERSITY OF UTAH
1977 - BS, UNIVERSITY OF UTAH
2002 - BS, UNIVERSITY OF UTAH
2001 - SALT LAKE COMMUNITY COLLEGE

Tanner, William (1984)
Professor
Biology
1983 - PhD, SOUTHERN ILLINOIS UNIVERSITY
1979 - MA, SOUTHERN ILLINOIS UNIVERSITY
1975 - BA, POMONA COLLEGE

Taylor, Kristen (2007)
Associate Professor
Biology
2013 - PhD, UNIVERSITY OF HAWAII
2007 - MS, UNIVERSITY OF HAWAII
1988 - BS, UNIVERSITY OF UTAH

Thomas, Larry (2010)
Assistant Professor
Health & Lifetime Activities
2011 - MS, UNIVERSITY OF UTAH
2005 - BS, BRIGHAM YOUNG UNIVERSITY

Thomas, Sadie (2009)
Lecturer
Mathematics
2010 - MEd, GRAND CANYON UNIVERSITY
2005 - BS, UTAH STATE UNIVERSITY

Thornton, Dee (2011)
Instructor
Aviation Maintenance
2011 - A & P, FEDERAL AVIATION ADMINISTRATION

Tillack, Melissa (2003)
Associate Professor
Biology
2001 - MS, BRIGHAM YOUNG UNIVERSITY
1994 - BS, BRIGHAM YOUNG UNIVERSITY
1988 - AS , RICKS COLLEGE

Torres, Marina (2002)
Instructor
Nursing
2009 - MSN, UNIVERSITY OF PHOENIX
2006 - BSN, UNIVERSITY OF UTAH
2005 - ASN, SALT LAKE COMMUNITY COLLEGE

Tovar, William (2007)
Instructor
SAT Professional Driving

Trottier, Timothy (2008)
Instructor
Non Destructive Testing
2009 - AAS, SALT LAKE COMMUNITY COLLEGE

Trygstad, Ruth (1998)
Associate Professor
Mathematics
1998 - MS, SOUTHERN ILLINOIS UNIVERSITY
1995 - BA, SOUTHERN ILLINOIS UNIVERSITY

Tucker, Jana (1988)
Assistant Professor
Medical Assistant
1998 - AS, SALT LAKE COMMUNITY COLLEGE
1970 - DPLM, SALT LAKE CITY COLLEGE OF MEDICAL ASSTING

Tyler, Deidre (1992)
Professor
Sociology
1993 - PhD, MISSISSIPPI STATE UNIVERSITY
1983 - MA, UNIVERSITY OF MISSISSIPPI
1999 - MEd, UTAH STATE UNIVERSITY
1981 - BS, MISSISSIPPI STATE UNIVERSITY
1979 - AA, HINDS JUNIOR COLLEGE

Udy, Robert (1991)
Assistant Professor
SAT Welding
1975 - AAS, SALT LAKE COMMUNITY COLLEGE

Ulibarri, Gilbert (1993)
Associate Professor
SAT Electronics
2000 - MS, UTAH STATE UNIVERSITY
1992 - BSEET, WEBER STATE
1992 - AS, SALT LAKE COMMUNITY COLLEGE

Valcarce, Ron (1992)
Assistant Professor
Chemistry
1989 - MS, UTAH STATE UNIVERSITY
1989 - BS, UTAH STATE UNIVERSITY

Van Ausdal, Trina (2000)
Associate Professor
Physics
2001 - MS, UNIVERSITY OF UTAH
1996 - BS, BRIGHAM YOUNG UNIVERSITY

Velasquez, Enrique (1990)
Associate Professor
Social Work
1992 - MSW, UNIVERSITY OF UTAH
1988 - BS, UNIVERSITY OF UTAH
1984 - AS, UNIVERSITY OF UTAH
2007 - LCSW, STATE OF UTAH

Vogt, Andrew (2012)
Instructor
Engineering
2013 - PhD, UNIVERSITY OF UTAH
2012 - MS, UNIVERSITY OF UTAH
2006 - BS, UNIVERSITY OF IDAHO

Walsh, Edward (1999)
Assistant Professor
Computer Science
2006 - BS, EXCELSIOR COLLEGE
2002 - AS, EXCELSIOR COLLEGE
2004 - INET+, COMP-TIA CERTIFICATIONS
2002 - CERT, MICROSOFT CERTIFICATIONS
2003 - CTT+, COMP-TIA CERTIFICATIONS

Warren, Joseph (2001)
Instructor
Chemistry
2009 - MS, JAMES COOK UNIVERSITY
1984 - BS, UNIVERSITY OF UTAH
1985 - CERT, UNIVERSITY OF UTAH

Watson, Dennis (2006)
Associate Professor
Economics
1983 - MA, PACIFIC COAST SCHOOL OF BANKING
1972 - MBA, UTAH STATE UNIVERSITY
1971 - BS, UNIVERSITY OF UTAH

Watt, David (1978)
Assistant Professor
Mathematics
1964 - BS, UTAH STATE UNIVERSITY

Weiss, Mickie (2014)
Associate Professor
Nursing
1999 - MSN, UNIVERSITY OF UTAH
1997 - BSN, UNIVERISTY OF UTAH
1994 - AS, UTAH VALLEY STATE COLLEGE

Wells, LornaKay (1982)
Professor
Computer Information Sys
1984 - MS, UTAH STATE UNIVERSITY
1982 - BS, UTAH STATE UNIVERSITY

White, Edgar (1997)
Instructor
Automotive Technology
1997 - BS, WEBER STATE
1996 - AAS, WEBER STATE
2001 - CERT, NATIONAL INSTITUTE FOR AUTOMOTIVE SERVICE

White, Michael (2004)
Assistant Professor
English
2005 - EdD, NORTHERN ARIZONA UNIVERSITY
1993 - MA, INDIANA UNIVERSITY OF PENNSYLVANIA
1982 - BS, PAINE COLLEGE

Widdison, Jean (1987)
Associate Professor
Health & Lifetime Activities
1982 - MS, UNIVERSITY OF UTAH
1974 - BS, BRIGHAM YOUNG UNIVERSITY

Wignall, Candace (1988)
Associate Professor
Mathematics
1995 - MA, BRIGHAM YOUNG UNIVERSITY
1974 - BA, UNIVERSITY OF COLORADO

Williams, L. (1982)
Associate Professor
Communication
1970 - MA, BRIGHAM YOUNG UNIVERSITY
1967 - BS, BRIGHAM YOUNG UNIVERSITY

Williams, Sally (1971)
Associate Professor
SAT OIS
1973 - BS, UNIVERSITY OF UTAH
2003 - CPC, AMERICAN ACADEMY OF PROFESSIONAL CODERS

Williamson, Brian (1984)
Associate Professor
Aviation Maintenance
1992 - BS, PACIFIC WESTERN UNIVERSITY
1987 - AAS, SALT LAKE COMMUNITY COLLEGE

Wilson, Andrew (2009)
Assistant Professor
Visual Art & Design
2009 - MBA, SOUTHERN UTAH UNIVERSITY
2008 - BS, DIXIE STATE UNIVERSITY
2004 - AS, DIXIE STATE UNIVERSITY

Wilson, Dennis (1988)
Associate Professor
Economics
1986 - MS, BOISE STATE UNIVERSITY
1980 - BS, BRIGHAM YOUNG UNIVERSITY

Wood, Lisa (1991)
Professor
Radiological Technology
1995 - MS, UNIVERSITY OF UTAH
1991 - BS, UNIVERSITY OF UTAH
1984 - ARRT, UNIVERSITY OF UTAH RADIOLOGIC TECHNOLOGY

Woodall, James (1993)
Associate Professor
Mathematics
1989 - MS, PORTLAND STATE UNIVERSITY
1987 - BS, PORTLAND STATE UNIVERSITY

Yerbury, Lynnette (1987)
Professor
Accounting
1987 - MBA, UNIVERSITY OF UTAH
1982 - BS, SOUTHERN UTAH STATE COLLEGE
1980 - AAS, UTAH TECH. COLLEGE

Youngman, Curtis (1978)
Professor
Marketing
1977 - MS, UTAH STATE UNIVERSITY
1974 - BS, UTAH STATE UNIVERSITY
1972 - AAS, WEBER STATE

Zundel, Erwin (2007)
Instructor
Professional Pilot
1976 - MS, WEBSTER UNIVERISTY
1968 - BS, BRIGHAM YOUNG UNIVERSITY