

ENGINEERING DESIGN/DRAFTING TECHNOLOGY

Taylorville Redwood Campus, AT 208 (801) 957-4074
General Information (801) 957-4073
Academic Advisor (801) 957-4858
www.slcc.edu/drafting

Professors: Jane Hook
Instructors: Joel Clarkson, Michael Stenquist

THE PROGRAMS

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 area. Drafters and designers are an integral part of a project team in every field, developing the drawings and designs for fabrication and construction.

CAREER OPPORTUNITIES

Entry-level drafters work as CAD operators to produce fabrication quality drawings from diagrams supplied by designers and engineers and can expect a starting salary from \$12 to \$14 per hour. 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.

MACHINING AND MANUFACTURING TECHNOLOGY

(See specific degrees for career information.)

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.

PREREQUISITES

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.

CLASS AVAILABILITY

Students should check the semester class schedule for the day/evening availability and modifications caused by varying enrollment.

CERTIFICATE OF COMPLETION^{CTE} ENGINEERING DRAFTING TECHNOLOGY

(minimum 30 hours required)

The two-semester certificate of completion provides the student with entry-level industry skills in technical drafting and computer-assisted drafting (CAD) as well as courses in speciality areas of the student's choice.

GENERAL EDUCATION REQUIREMENTS (9-10 CREDITS)

COURSE	CR	SEM	PREREQUISITES
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COMMUNICATION

See pp 24-27 for options.

HUMAN RELATIONS

See pp 24-27 for options. Students who may want to pursue an AS degree in the future should take either LE 1220 as it will also meet the Social Science general education requirement or MKTG 1050, as it will also meet the interdisciplinary requirement.

QUANTITATIVE STUDIES

MATH 1010	Interm Algebra(QS)	4	A	MATH 0990 or CPT
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MAJOR COURSE REQUIREMENTS (12 CREDITS)

COURSE	CR	SEM	PREREQUISITES	
*EDDT 1010	Tech Drafting I	3	A	none
*EDDT 1040	Intro to CAD	3	A	none
EDDT 1100	Adv AutoCAD	2	A	EDDT 1040
EDDT 1200	Tech Drafting II	4	A	EDDT 1010, EDDT 1040

ELECTIVES (8 CREDITS)

(SELECT AT LEAST EIGHT CREDIT HOURS FROM THE FOLLOWING):

EDDT 1420	Basic Micro Stat	2	A	none
EDDT 2180	Elec Drafting	3	Sp	EDDT 1100
EDDT 2190	Civil Drafting	2	F, Sp	EDDT 1040, EDDT 1420
EDDT 2240	Steel Detailing	3	F	MATH 1010, EDDT 1040
EDDT 2340**	Manufacturing Process	2	F	EDDT 1040, w/EDDT 2350
EDDT 2350	Manufac Process Lab	1	F	w/EDDT 2340
EDDT 2360	Pipe Drafting	2	Sp	EDDT 1040
EDDT 2540**	Geo Dimen Tol	2	Sp	EDDT 1100
EDDT 2600	Modeling w/ SolidWorks	3	F	EDDT 1100
EDDT 2710	AutoDesk 3D Modeling	2	Sp, Su	AutoCAD Experience

*Waived for equivalent experience or course.

**These courses can be taken concurrently with the prerequisites.

NOTE: Students acquiring a General Studies Associate of Science degree may simultaneously earn a Certificate in Engineering Drafting Technology by selecting the above courses to fulfill the vocational/technical component of their AS degree.

SAMPLE SCHEDULE

1st SEMESTER		2nd SEMESTER	
COMMUNICATION	3	EDDT 1200	4
EDDT 1010	3	EDDT ELECTIVES	8
EDDT 1040*	3	HUMAN RELATIONS	2-3
EDDT 1100*	2	TOTAL	14-15
MATH 1010	4		
TOTAL	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.

**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 from those listed or in summer term.

CERTIFICATE OF COMPLETION^{CTE} MACHINING TECHNOLOGY

(minimum 31 hours required)

Machining 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, 30-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.

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.

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.

GENERAL EDUCATION REQUIREMENTS (9-10 CREDITS)

COURSE	CR	SEM	PREREQUISITES
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COMMUNICATION

See pp 24-27 for options.

HUMAN RELATIONS

See pp 24-27 for options. MKTG 1050 will also meet the interdisciplinary requirement for students who may want to continue toward an AS transfer degree studying Manufacturing Engineering Technology or Mechanical Engineering Technology.

QUANTITATIVE STUDIES

COURSE	CR	SEM	PREREQUISITES
MATH 1010 Interm Algebra(QS)	4	A	MATH 0990 or CPT
OR			
IND 1120 Math for Industry	3	F, Sp	none

*MATH 1010 is a prerequisite for the math courses required in the AS degree for students who may want to continue toward an AS degree.

MAJOR COURSE REQUIREMENTS (21 CREDITS)

COURSE	CR	SEM	PREREQUISITES
*EDDT 1040 Intro to AutoCAD	3	A	none
EDDT 1100 Adv AutoCAD	2	A	EDDT 1040
EDDT 2340** Manufacturing Process	2	F	EDDT 1040, w/EDDT 2350
EDDT 2350 Manufacturing Lab	1	F	w/ EDDT 2340
EDDT 2540 Geo Dimen & Tol	2	Sp	EDDT 1100**
EDDT 2600 Modeling w/ SolidWorks	3	Sp	EDDT 1100
MAT 1500 Manual Machining	2	F	w/MAT 1510
MAT 1510 Man. Machining Lab	1	F	w/MAT 1500
MAT 1570 CAD/CAM	2	Sp	EDDT 1040, MAT 1500, MAT 1510
MAT 1600 CNC Machine Theo	2	Sp	w/MAT 1610
MAT 1610 CNC Machining Lab	1	Sp	w/MAT 1600
WLD 1005 Related Welding	3	A	none

*Waived for equivalent experience or course; challenge test available.

**This course can be taken concurrently with the prerequisite.

NOTE: Students acquiring a General Studies Associate of Science degree may simultaneously earn a Certificate in Engineering Drafting Technology by selecting the above courses to fulfill the vocational/technical component of their AS degree.

SAMPLE SCHEDULE Evening Students**

1st SEMESTER		2nd SEMESTER	
EDDT 1040*	3	EDDT 1100	2
EDDT 1100*	2	EDDT 2540	2
EDDT 2340	2	COMM	2-3
EDDT 2350	1	EDDT 2600	3
MAT 1500	2	MAT 1600	2
MAT 1510	1	MAT 1610	1
HUMAN RELATIONS	2-3	WLD 1005	3
MATH 1010	4	TOTAL	13-14
OR			
IND 1120	3		
TOTAL	17-18		

ASSOCIATE OF APPLIED SCIENCE^{CTE} DEGREE IN ENGINEERING DESIGN/ DRAFTING TECHNOLOGY

(minimum 63 hours required)

The AAS degree provides, in addition to the certificate, an emphasis in specific discipline areas such as: electro-mechanical, 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.

GENERAL EDUCATION REQUIREMENTS

COURSE	CR	SEM	PREREQUISITES
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CORE SKILLS (12-13 CREDITS)

COMPOSITION (EN)

ENGL 1010 Intro to Writing	3	A	pre-test
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QUANTITATIVE STUDIES (QL)

MATH 1060 Trigonometry	3	A	MATH 1050 or CPT score
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COMMUNICATION

See pp 25-27 for options.

HUMAN RELATIONS

See pp 25-27 for options. LE 1220 will also meet the Social Science requirement and MKTG 1050 will also meet the Interdisciplinary requirement for students who may want to continue toward an AS transfer degree.

DISTRIBUTION AREAS (3 CREDITS)

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

Biological Science (BS)	3	A	none
Fine Arts (FA)	3	A	none
Humanities (HU)	3	A	none
Interdisciplinary (ID)	3	A	none
Physical Science (PS)	3	A	none
Social Science (SS)	3	A	none

See pp. 24-27 for options in each of these categories.

MAJOR COURSE REQUIREMENTS (38 CREDITS)

COURSE	CR	SEM	PREREQUISITES
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*EDDT 1010 Tech Drafting I	3	A	none
*EDDT 1040 Intro to CAD	3	A	none
EDDT 1100 Adv AutoCAD	2	A	EDDT 1040
EDDT 1200 Tech Drafting II	4	A	EDDT 1040, EDDT 1040
EDDT 1420 Basic MicroStn	2	A	none
EDDT 2160 Statics & Strength of Mat	3	F	MATH1060
EDDT 2180 Elec Drafting	3	F	EDDT 1100
EDDT 2190 Civil Drafting	2	F, Sp	EDDT 1040, EDDT 1420
EDDT 2240 Steel Detailing	3	F	MATH 1010, EDDT 1040
EDDT 2260 Machine Design	2	Sp	EDDT 2160,
EDDT 2340** Manufacturing Process	2	F	EDDT 1040, w/EDDT 2350
EDDT 2350 Manufac Process Lab	1	F	w/EDDT 2340
EDDT 2360 Pipe Drafting	2	Sp	EDDT 1040
EDDT 2540 Geo Dimen Tol	2	Sp	EDDT 1100
EDDT 2600 Modeling w/ SolidWorks	3	F	EDDT 1100

*Waived for equivalent experience or course.

**These courses can be taken concurrently with the prerequisites.

ELECTIVES (11 CREDITS)

SELECT AT LEAST ELEVEN (11) CREDIT HOURS FROM THE FOLLOWING LISTS:
The electives provide additional depth in specific discipline areas of design/drafting. Students should take the electives from the area in which they want specialization.

GENERAL ELECTIVES

COURSE	CR	SEM	PREREQUISITES
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	PREREQUISITES
EDDT 2700 Adv Solid Works	2	F, Sp	EDDT 2600 or equiv experience
EDDT 2710 AutoDesk 3D Mod	2	Sp, Su	AutoCAD experience
MAT 1500 Manual Machining	2	F	w/MAT 1510
MAT 1510 Manual Mach Lab	1	F	w/MAT 1500
MAT 1600 CNC Machine Theo	2	Sp	w/MAT 1610
MAT 1610 CNC Machining Lab	1	Sp	w/MAT 1600
MAT 2650 CAD/CAM	2	Sp	EDDT 2540 or conc. & EDDT 2600

STRUCTURAL/CIVIL ELECTIVES

COURSE	CR	SEM	PREREQUISITES
ARCH 2310 Model/Rend/Animation	3	F	ARCH 1310 or EDDT 1040
ARCH 2350 Adv Architectural Cad	3	Sp	ARCH 1310 or EDDT 1040
EDDT 2420 Adv MicroStation	2	Sp	EDDT 1420
SVT 1110 Surveying Math I	3	F	MATH 1010 or CPT
SVT 1030 Survey Field Tech	3	Sp	SVT 1110 or MATH 1060
SVT 2290 App Survey Draft	3	Sp	EDDT 2190, SVT 1030

SAMPLE SCHEDULE			
FIRST SEMESTER		SECOND SEMESTER	
COMMUNICATION	3	DISTRIBUTION	3
EDDT 1010	3	EDDT 1200	4
EDDT 1040*	3	EDDT 1420*	3
EDDT 1100*	2	EDDT 2190	2
MATH 1060	4	EDDT 2540	2
TOTAL	14	MATH 1060	3
SUMMER TERM**		TOTAL	17
THIRD SEMESTER		FOURTH SEMESTER	
EDDT 2160	3	EDDT 2240	3
EDDT 2180	3	EDDT 2260	2
EDDT 2600	3	EDDT 2360	2
ENGL 1010	3	EDDT ELECTIVES	6-7
EDDT ELECTIVE	3-4	TOTAL	17-18
TOTAL	15-16		

*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. 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.

NOTE: 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.

COMPLETING THE GENERAL EDUCATION REQUIREMENTS LISTED BELOW RESULTS IN RECEIVING AN ASSOCIATE OF SCIENCE TRANSFER DEGREE FOR STUDENTS WHO HAVE COMPLETED THE AAS IN EDDT.*

ENGINEERING DESIGN/DRAFTING TECHNOLOGY

(minimum 64 hours required; 19 credits beyond AAS degree.)

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. 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 AS in Engineering Design/Drafting Technology must see the UVU advisor about specific requirements they may still need to complete; including MATH 1040.

GENERAL EDUCATION REQUIREMENTS

(BEYOND THOSE COMPLETED FOR AAS)

COURSE	CR	SEM	PREREQUISITES
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CORE SKILLS (9-10 CREDITS)

COMPOSITION			
ENGL 2010 Interm Writing	3	A	ENGL 1010

QUANTITATIVE LITERACY (taken in AAS degree)

AMERICAN INSTITUTIONS

ECON 1740 Econ Hist of US	3	A	none
OR			
HIST 1700 American Civ	3	A	none
OR			
POLS 1100 US Gov & Politics	3	A	none

INSTITUTIONAL REQUIREMENTS

LIFELONG WELLNESS

HLAC	1	A	none
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STUDENT CHOICE (taken in AAS degree)

COMPUTER LITERACY

DISTRIBUTION AREAS (12 CREDITS)

Choose one course (three credit hours) from each of the following distribution areas except the one selected for the AAS degree (LE 1220 satisfies Social Science requirement and MKTG 1050 satisfies the Interdisciplinary requirement). One of the courses must also be a Diversity course (DV).

Biological Science (BS)	3	A	none
Fine Arts (FA)	3	A	none
Humanities (HU)	3	A	none
Interdisciplinary (ID)	3	A	none
Social Science (SS)	3	A	none

See pp. 24-27 for options in each of these categories.

* **NOTE:** 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 the Utah System of Higher Education web site: www.utahsbr.edu/hel02a.html.

COMPLETING THE LISTED REQUIREMENTS BELOW RESULTS IN RECEIVING AN ASSOCIATE OF SCIENCE TRANSFER DEGREE*

CAD/CAM ENGINEERING TECHNOLOGY

(minimum 63 hours required)

Earning an AS degree while focusing on CAD/CAM Engineering Technology provides students with the basic mechanical drafting, CAD and CNC machining skills required for entry-level placement in industry, but is specifically for students wishing to transfer into the CAD/CAM engineering technology bachelor of science degree program at Southern Utah University.

GENERAL EDUCATION REQUIREMENTS (15 CREDITS)

COURSE	CR	SEM	PREREQUISITES
CORE SKILLS COMPOSITION			
ENGL 1010 Intro to Writing	3	A	pre-test
ENGL 2010 Interm Writing	3	A	ENGL 1010
QUANTITATIVE LITERACY			
MATH 1210 Calculus I	4	A	MATH 1060
AMERICAN INSTITUTIONS			
ECON 1740 Econ Hist of US	3	A	none
OR			
HIST 1700 American Civ	3	A	none
OR			
POLS 1100 US Gov& Politics	3	A	none

INSTITUTIONAL REQUIREMENTS (19 CREDITS)

COURSE	CR	SEM	PREREQUISITES
LIFELONG WELLNESS			
HLAC	1	A	none
STUDENT CHOICE (3 CREDITS)			
COMM 1010 Intro to Comm	3	A	none
OR			
COMM 1020 Princpls of Pub Spk	3	A	none

COMPUTER LITERACY

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).

Biological Science (BS)	3	A	none
Fine Arts (FA)	3	A	none
Humanities (HU)	3	A	none
Interdisciplinary (ID)	3	A	none
Social Science (SS)	3	A	none

Physical Science area is exempted; PHYS 2010 is required for the program. See pp. 25-27 for options in each of these categories.

MAJOR COURSE REQUIREMENTS (29 CREDITS)

COURSE	CR	SEM	PREREQUISITES
*EDDT 1010 Technical Drafting I	3	A	none
*EDDT 1040 Intro to AutoCAD	3	A	none
EDDT 1100 Advanced AutoCAD	2	A	EDDT 1040
EDDT 2180 Electronic Drafting	3	F	EDDT 1100
EDDT 2340** Manufacturing Process	2	F	EDDT 1040, w/EDDT 2350
EDDT 2350 Manufact. Lab	1	F	w/EDDT 2340
EDDT 2540** Geo. Dimen. & Tol	2	Sp	EDDT 1100
EDDT 2600 Modeling w/ SolidWorks	3	F	EDDT 1100
MAT 1600 CNC Machine Theo	2	Sp	w/MAT 1610
MAT 1610 CNC Machining Lab	1	Sp	w/MAT 1600
MAT 2650 CAD/CAM	2	Sp	EDDT 2540 or conc & EDDT 2600
PHYS 2010 College Physics I	4	A	MATH 1060
PHYS 2015 College Physics Lab I	1	A	w/PHYS 2010

*Waived for equivalent experience or course.

**These courses can be taken concurrently with the prerequisites.

SAMPLE SCHEDULE Day Students***

FIRST SEMESTER			SECOND SEMESTER		
EDDT 1010	3		ENGL 1010	3	
EDDT 1040*	3		EDDT 2540	2	
EDDT 1100*	2		MAT 1600	2	
EDDT 2340	2		MAT 1610	1	
EDDT 2350	1		MATH 1210	4	
DISTRIBUTION	3		DISTRIBUTION	3	
HLAC	1		TOTAL	15	
TOTAL	15				
SUMMER TERM**					
THIRD SEMESTER			FOURTH SEMESTER		
EDDT 2180	3		COMM	3	
EDDT 2600	3		MAT 2650	2	
ENGL 2010	3		PHYS 2010	4	
AMERICAN INST	3		PHYS 2015	1	
DISTRIBUTION	3		Distribution	6	
TOTAL	15		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.

**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.

***Evening classes are generally offered on alternating semesters than those listed or summer term.

* **NOTE:** 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 the Utah System of Higher Education web site: www.utahsbr.edu/hel02a.html.

COMPLETING THE LISTED REQUIREMENTS BELOW RESULTS IN RECEIVING AN ASSOCIATE OF SCIENCE TRANSFER DEGREE*

MANUFACTURING ENGINEERING TECHNOLOGY

(minimum 63 hours required)

Manufacturing Engineering Technology - the manufacturing engineering technician designs tooling for the fabrication of mass-produced parts, monitors the manufacturing processes, and performs inspection. The degree also provides two years for transfer into the Manufacturing Engineering Technology Bachelor of Science at Weber State University.

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.

Earning an AS degree while focusing on manufacturing engineering technology provides students with the CAD/CAM, solid modeling design, manual and CNC machining skills required for placement as technicians in industry but is specifically for students wishing to transfer into the manufacturing engineering technology bachelor of science degree program at Weber State University.

GENERAL EDUCATION REQUIREMENTS

COURSE	CR	SEM	PREREQUISITES
CORE SKILLS (17 CREDITS)			
COMPOSITION			
ENGL 1010 Intro to Writing	3	A	pre-test
ENGL 2010 Interm Writing	3	A	ENGL 1010

QUANTITATIVE LITERACY

MATH 1210 Calculus I 4 A MATH 1060

AMERICAN INSTITUTIONS

ECON 1740 Econ Hist of US 3 A none
OR

HIST 1700 American Civ 3 A none
OR

POLS 1100 US Gov & Politics 3 A none

INSTITUTIONAL REQUIREMENTS

LIFELONG WELLNESS

HLAC 1 A none

STUDENT CHOICE (3 CREDITS)

COMM 1010 Intro to Comm 3 A none
OR

COMM 1020 Princpls of Pub Spk 3 A none

COMPUTER LITERACY

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).

Biological Science (BS)	3	A	none
Fine Arts (FA)	3	A	none
Humanities (HU)	3	A	none
Interdisciplinary (ID)	3	A	none
Social Science (ECON1010)	3	A	none

Physical Science is exempted, as CHEM 1110 is required in the program.

See pp. 24-27 for options in each of these categories.

MAJOR COURSE REQUIREMENTS (31 CREDITS)

COURSE	CR	SEM	PREREQUISITES
CHEM 1110 Elem Chemistry	4	A	MATH 1010, w/CHEM 1115
CHEM 1115 Elem Chem Lab	1	A	w/ CHEM 1110
OR			
CHEM 1210 Gen Chemistry I	4	A	MATH 1050, w/CHEM 1215
CHEM 1215 Gen Chem Lab I	1	A	w/ CHEM 1210
PHYS 2010 College Physics I	4	A	MATH 1060, w/PHYS 2215
PHYS 2015 College Physics Lab I	1	A	w/ PHYS 2010
OR			
PHYS 2210 Physics f/Sci & Eng I	4	A	MATH 1210
PHYS 2215 Physics f/Sci&Eng L I	1	A	w/ PHYS 2210
EDDT 1100 Adv AutoCAD	2	A	EDDT 1040*
EDDT 2340** Manufacturing Process	2	F	EDDT 1040, w/EDDT 2350
EDDT 2350 Manufac Process Lab	1	F	w/EDDT 2340
EDDT 2540** Geo Dim & Tol	2	Sp	EDDT 1100
EDDT 2600 Modeling w/ SolidWorks	3	F	EDDT 1100
MAT 1500 Manual Machining	2	F	w/ MAT 1510
MAT 1510 Manual Mach Lab	1	F	w/ MAT 1500
MAT 1600 CNC Machine Theo	2	Sp	w/MAT 1610
MAT 1610 CNC Machining Lab	1	Sp	w/MAT 1600
MAT 2650 CAD/CAM	2	Sp	EDDT 2540 or conc EDDT 2600
WLD 1005 Related Welding	3	A	none

*This prerequisite can be waived for equivalent experience or course; challenge test available.

**These courses can be taken concurrently with the prerequisites.

* **NOTE:** 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 the Utah System of Higher Education web site: www.utahsbr.edu/hel02a.html.

SAMPLE SCHEDULE Day Students

1st SEMESTER		2nd SEMESTER	
EDDT 1100	2	ENGL 1010	3
EDDT 2340	2	MAT 1600	2
EDDT 2350	1	MAT 1610	1
MAT 1500	2	AMERICAN INST	3
MAT 1510	1	DISTRIBUTION	6
MATH 1210	4	HLAC	1
WLD 1005	3	TOTAL	16
TOTAL	15		
SUMMER SEMESTER**			
3rd SEMESTER		2ND SPRING SEMESTER	
ECON 1010	3	CHEM	5
EDDT 2600	3	COMM 1010	3
ENGL 2010	3	EDDT 2540	2
PHYSICS	5	MAT 2650	2
DISTRIBUTION	3	DISTRIBUTION	3
TOTAL	17	TOTAL	15

*Evening classes are generally offered on alternating semesters than those listed or summer term.

**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.

In addition to the required courses listed above, WSU's Manufacturing Engineering Technology Bachelor of Science degree requires the following courses that may also be completed at SLCC before transferring:

COURSE	CR	SEM	PREREQUISITES
*MEEN 2010 Statics	3	F,Sp	PHYS 2210
*MEEN 2140 Strength of Materials	2	F,Sp	MEEN 2010
*MEEN 2145 Mat Lab	1	F,Sp	w/ MEEN 2140

*These three courses can be taken at Weber State University as one course, MFET 2300.

* **NOTE:** 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 the Utah System of Higher Education web site: www.utahsbr.edu/hel02a.html.

COMPLETING THE LISTED REQUIREMENTS BELOW RESULTS IN RECEIVING AN ASSOCIATE OF SCIENCE TRANSFER DEGREE*

MECHANICAL ENGINEERING TECHNOLOGY

(minimum 60 hours required)

Mechanical Engineering Technology - the mechanical engineering technician provides support for design engineers as quality technicians, drafter/designers, and document specialists. The degree also provides two years for transfer into the Mechanical Engineering Technology Bachelor of Science at Weber State University.

Two year graduates in Mechanical Engineering Technology start from \$28,000-\$33,000 per year. Bachelor degree graduates start at \$45,000. Graduates with BS degrees find jobs as technical designers, quality engineers, process engineers and project managers.

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.

GENERAL EDUCATION REQUIREMENTS

COURSE	CR	SEM	PREREQUISITES
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CORE SKILLS (17 CREDITS)

COMPOSITION

ENGL 1010	Intro to Writing	3	A	pre-test
ENGL 2010	Interm Writing	3	A	ENGL 1010

QUANTITATIVE LITERACY

MATH 1210	Calculus I	4	A	MATH 1060
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AMERICAN INSTITUTIONS

ECON 1740	Econ Hist of US	3	A	none
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OR

HIST 1700	American Civ	3	A	none
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OR

POLS 1100	US Gov& Politics	3	A	none
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INSTITUTIONAL REQUIREMENTS

LIFELONG WELLNESS

HLAC		1	A	none
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STUDENT CHOICE (3 CREDITS)

COMM 1010	Intro to Comm	3	A	none
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OR

COMM 1020	Princpls of Pub Spk	3	A	none
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COMPUTER LITERACY

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).

Biological Science (BS)	3	A	none
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Fine Arts (FA)	3	A	none
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Humanities (HU)	3	A	none
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Interdisciplinary (ID)	3	A	none
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Social Science (ECON 1010)	3	A	none
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Physical Science is exempted, as CHEM 1110 is required in the program.

See pp. 25-27 for options in each of these categories.

MAJOR COURSE REQUIREMENTS (28 CREDITS)

COURSE	CR	SEM	PREREQUISITES	
PHYS 2210	Physics f/Sci & Eng I	4	A	MATH 1210
PHYS 2215	Physics f/Sci&Eng L I	1	A	w/PHYS 2210
CHEM 1110	Elem Chem	4	A	MATH 1010, w/CHEM 1115
CHEM 1115	Elem Chem Lab	1	A	none
*EDDT 1040	Intro to AutoCAD	3	A	none
EDDT 1100	Adv AutoCAD	2	A	EDDT 1040
EDDT 2340**	Manufacturing Process	2	F	EDDT 1040, w/EDDT 2350
EDDT 2350	Manufac Process Lab	1	F	w/EDDT 2340
EDDT 2540**	Geo Dim & Tol	2	Sp	EDDT 1100
EDDT 2600	Modeling w/ SolidWorks	3	F	EDDT 1100
MAT 1500	Manual Machng	2	F	w/MAT 1510
MAT 1510	Manual Mach Lab	1	F	w/MAT 1500
MAT 2650	CAD/CAM	2	Sp	EDDT 2540 or conc and EDDT 2600

*Can be waived for equivalent experience or course.

**These courses can be taken concurrently with the prerequisites.

*** NOTE:** 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 the Utah System of Higher Education web site: www.utahsbr.edu/hel02a.html.

SAMPLE SCHEDULE

1st SEMESTER			2nd SEMESTER		
EDDT 1040*	3		ENGL 1010	3	
EDDT 1100*	2		EDDT 2540	2	
EDDT 2340	2		PHYS 2210	4	
EDDT 2350	1		PHYS 2215	1	
MAT 1500	2		AMERICAN INST	3	
MAT 1510	1		DISTRIBUTION	3	
MATH 1210	4		TOTAL	16	
TOTAL	15				
2ND FALL SEMESTER			2ND SPRING SEMESTER		
CHEM 1110	4		COMM 1010	3	
CHEM 1115	1		OR		
ECON 1010	3		COMM 1020	3	
EDDT 2600	3		EDDT 2540	2	
ENGL 2010	3		MAT 2650	2	
HLAC	1		DISTRIBUTION	9	
TOTAL	15		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 summer term.

**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.

In addition to the required courses listed above, Weber State University's Mechanical Engineering Technology Bachelor of Science degree requires the following courses that may also be completed at SLCC before transferring:

COURSE	CR	SEM	PREREQUISITES	
MATH 1220	Calculus II	4	A	MATH 1210
PHYS 2220	Physics f/Sci&Eng II	4	A	PHYS 2210, w/PHYS 2225
PHYS 2225	Physics f/Sci&Eng LII	1	A	w/PHYS 2220
*MEEN 2010	Statics	3	F, Sp	PHYS 2210
*MEEN 2140	Strngth of Mat	2	F, Sp	MEEN 2010
*MEEN 2145	Mat Lab	1	F, Sp	w/MEEN

2140

*These three courses can be taken at Weber State University as one course, MFET 2300.

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ENGINEERING DRAFTING TECHNOLOGY

SEE ENGINEERING DESIGN /DRAFTING TECHNOLOGY