

Biology

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Professors: James Hampton, Arleen Sawitzke, William Tanner
Associate Professor: Jane Rudolph, Tim Beagley
Assistant Professors: Melaney Farr, Jim Blevins, Eric Green, Mary Jane Keleher, Melissa Tillack
Instructor: Randy Moon, Kristen Taylor, Kathy Bell

THE PROGRAM

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.

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.

CLASS AVAILABILITY

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.

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

(minimum 64 hours required)

GENERAL EDUCATION REQUIREMENTS

COURSE	CR	SEM	PREREQUISITES
CORE SKILLS COMPOSITION			
ENGL 1010 Intro to Writing	3	A	pre-test
ENGL 2010 Interm Writing	3	A	ENGL 1010 w/C or better
QUANTITATIVE LITERACY			
MATH 1210 Calculus I	4	A	MATH 1060
AMERICAN INSTITUTIONS (3 CREDITS)			
ECON 1740 Econ Hist of US	3	A	RDG 0990 w/C or better or appropriate placement
OR			
HIST 1700 Amer Civilization	3	A	RDG 0990 w/C or better or appropriate placement
OR			
POLS 1100 US Gov & Politics	3	A	RDG 0990 w/C or better or appropriate placement

INSTITUTIONAL REQUIREMENTS

COURSE	CR	SEM	PREREQUISITES
LIFELONG WELLNESS			
HLAC ____	1	A	none

STUDENT CHOICE (3 CREDITS)

Communications, depth, or intensive course.

COMPUTER LITERACY

DISTRIBUTION AREAS

Complete the following distribution (BS) courses:
 BIOL 1610 College Biology I 4 A

(Placement Required)
 With a grade of C or better in Math 0990 or equivalent CPT/ACT score AND a grade of C or better in RDG 0990 or equivalent CPT/ACT score.
 W/BIOL 1615 (lab)

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

Fine Arts	3	A	none
Humanities	3	A	none
Interdisciplinary	3	A	none
Social Science	3	A	none

Physical Science area is exempted; CHEM 1210 is required for program.

See pp. 23-27 for options in each of these categories.

MAJOR COURSE REQUIREMENTS

COURSE	CR	SEM	PREREQUISITES
BIOL 1620 College Biology II	4	F, Sp	BIOL 1610/1615 (C grade or better), w/BIOL 1625 (lab)
BIOL 2030 Genetics	4	F, Sp	CHEM 1210 (C grade or better), BIOL 1610/1615 (C grade or better), w/BIOL 2035 (lab)
CHEM 1210 Gen Chem I	4	F, Sp	MATH 1050, w/CHEM 1215
CHEM 1215 Gen Chem Lab I	1	F, Sp	w/CHEM 1210
CHEM 1220 General Chem II	4	Sp, Su	CHEM 1210 w/CHEM 1225
CHEM 1225 Gen Chem Lab II	1	Sp, Su	w/CHEM 1220
CHEM 2310 Organic Chem I	4	F, Sp	CHEM 1220, w/CHEM 2315
CHEM 2315 Organic Chem Lab I	1	F, Sp	w/CHEM 2310

ELECTIVES (8 CREDITS)

¹ BIOL 2020 Cell Biology	4	F, Sp	BIOL 1610/1615 (C grade or better) w/BIOL 2025 (lab)
BIOL 2060 Microbiology	4	A	BIOL 1610/1615 (C grade or better), w/BIOL 2065 (lab)
² BIOL 2220 Ecology	4	Sp	BIOL 1610/1615 (C grade or better) w/BIOL 2225 (lab)
BIOL 2320 Human Anatomy	4	A	BIOL 1610/1615 (C grade or better), w/BIOL 2325 (lab)
BIOL 2350 Field Studies Bio	1-3	TBA	BIOL 1610/1615 (C grade or better)
BIOL 2420 Human Physiology	4	A	BIOL 1610/1615, (C grade or better) CHEM 1110, w/BIOL 2425 (lab)
*CHEM 2320 Organ Chem II	4	Sp, Su	CHEM 2310, w/CHEM 2325
*CHEM 2325 Organic Chem Lab II	1	Sp, Su	w/CHEM 2320
*PHYS 2210 Physics f/Sci & Eng I	4	A	MATH 1210, w/PHYS 2215
*PHYS 2215 Physics f/Sci&Eng L I	1	A	w/PHYS 2210
*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

*Required for U of U Biology major.
¹BIOL 2020/2025 Cell Biology and Lab are required for students transferring to the University of Utah.

²BIOL 2220/2225 Ecology and Lab are required for students transferring to Utah State University.

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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
2ND FALL SEMESTER		2ND SPRING SEMESTER	
BIOL ELECTIVE	4	ENGL 2010	3
CHEM 2310/2315	5	DISTRIBUTION	3
ENGL 1010	3	AMERICAN INST	3
HLAC ELECTIVE	1	STUDENT CHOICE	3
DISTRIBUTION	3	BIOL ELECTIVE	4
TOTAL	16	TOTAL	16

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.

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.

DEPARTMENTAL OFFERINGS

COURSE	CR	SEM	PREREQUISITES
BIOL 1010 Intro to Biology	4	A	w/BIOL 1015 (lab) (Placement Required) a grade of C or better in RDG 0900 or equivalent CPT/ACT score.
BIOL 1030 Intro Plant Biology	4	F, Sp	w/BIOL 1035 (lab) (Placement Required) a grade of C or better in RDG 0900 or equivalent CPT/ACT score.
BIOL 1050 Intro Animal Biology	4	F, Sp	w/BIOL 1055 (lab) (Placement Required) a grade of C or better in RDG 0900 or equivalent CPT/ACT score.
BIOL 1070 Intro to Marine Bio	4	F, Sp	w/BIOL 1075 (lab) (Placement Required) a grade of C or better in RDG 0900 or equivalent CPT/ACT score.
BIOL 1090 Human Biology	3	A	(Placement Required) a grade of C or better in RDG 0900 or equivalent CPT/ACT score.
BIOL 1120 Intro Conservation Biol	3	F, Sp	(Placement Required) a grade of C or better in RDG 0900 or equivalent CPT/ACT score.
BIOL 1610 College Biology I	4	A	(Placement Required) With a grade of C or better in Math 0990 or equivalent CPT/ACT score AND a grade of C or better in RDG 0990 or equivalent CPT/ACT score. W/BIOL 1615 (lab)

BIOL 1617 College Bio I Workshop	1	A	w/BIOL 1610/1615
BIOL 1620 College Biology II	4	A	BIOL 1610/1615, w/BIOL 1625 (lab)
BIOL 2000 CO-OP	2-4	A	Instructor's approval
BIOL 2020 Cell Biology	4	F, Sp	BIOL 1610/1615 (C grade or better) w/BIOL 2025 (lab)
BIOL 2030 Genetics	4	F, Sp	CHEM 1210 (C grade or better), BIOL 1610/1615 (C grade or better), w/BIOL 2035 (lab)
BIOL 2060 Microbiology	4	A	BIOL 1610/1615 (C grade or better), w/BIOL 2065 (lab)
BIOL 2220 Ecology	4	Sp	BIOL 1610/1615 (C grade or better) w/BIOL 2225 (lab)
BIOL 2320 Human Anatomy	4	A	BIOL 1610/1615 (C grade or better), w/BIOL 2325 (lab)
BIOL 2327 Instr Exp In Human Anat	3	F, Sp	BIOL 2320 (B grade or better)
BIOL 2350 Field Studies Bio	1-3	TBA	BIOL 1610/1615 (C grade or better)
BIOL 2420 Human Physiology	4	A	BIOL 1610/1615, (C grade or better) CHEM 1110, w/BIOL 2425 (lab)
BIOL 2350 Field Studies Bio	1-3	TBA	BIOL 1610/1615 (C grade or better)
BIOL 2900 Spec Topics in Bio	1-5	TBA	Defined by Instructor
BIOL 2990 Independent Studies	1-2	TBA	BIOL 1610/1615 (C grade or better)