Biology, B.S.

Requirements

Students interested in Biology, or related fields, are encouraged to earn at least a baccalaureate degree (BS). Many professions (e.g., Pharmacy or Medicine) require additional post -baccalaureate education. The BS degree in Biology may be used for entry into a career or in preparation for graduate (Masters/PhD) or professional schools (medical, dental, pharmacy, etc.).

Total Program Credits: 120

Matriculation Requirements:			
BIOL 1610 with C- or higher and approval of Biology Department advisor.			
General Education Requirements:			39 Credits
	ENGL 1010	Introduction to Writing	3
	ENGL 2020	Intermediate Writing--Science and Technology	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2.0)	
or	PES 1097	Fitness for Life	2
Distribution Courses:			
	BIOL 1610	College Biology I	4
	CHEM 1210	Principles of Chemistry I	4
	CHEM 1220	Principles of Chemistry II	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			51 Credits
	BIOL 1615	College Biology I Laboratory	1
	BIOL 1620	College Biology II	3
	BIOL 1625	College Biology II Laboratory	1
	BIOL 3400	Cell Biology	3
	BIOL 3500	Genetics	3
	BIOL 3550	Molecular Biology	3
	BIOL 3600	Biological Chemistry	3
	BIOL 3700	General Ecology	3
	BIOL 4500	Principles of Evolution	3
	BIOL 494R	Student Seminar	1
	BIOL 497R	Biology Colloquium (0.5 cr, two required) (0.5)	1
	STAT 2040	Principles of Statistics	4
or	MATH 1060	Trigonometry (3.0)	
and	MATH 1210	Calculus I (5.0)	
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
	PHYS 2020	College Physics II	4
	PHYS 2025	College Physics II Lab	1
	CHEM 1215	Principles of Chemistry I Laboratory	1
	CHEM 1225	Principles of Chemistry II Laboratory	1
	CHEM 2310	Organic Chemistry I	4
	CHEM 2315	Organic Chemistry I Laboratory	1
	CHEM 2320	Organic Chemistry II	4
	CHEM 2325	Organic Chemistry II Laboratory	1
Elective Requirements:			30 Credits
	Choose 4 credits from any MICR electives.		4
	Choose 3 credits from any BOT electives.		3
	Choose 3 credits from any ZOOL electives (except ZOOL 1090).		3
	Additional credits to meet credit and upper-division requirements.		20

Graduation Requirements:

1. Complete the required minimum credit hours.
2. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
3. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
4. A minimum of 40 credits must be upper-division (numbered 3000 or above).
5. A minimum of 40 credits must be in the major (BIOL, BOT, BTEC, MICR, or ZOOL prefixes), 30 of which must be upper-division. A minimum of nine Department credits must be taken at UVU.
6. Except for 490R Special Topics courses, a maximum cumulative total of 9 credits in any combination of upper division Departmental courses with an "R" designation may count toward graduation.
7. Complete Biology Department core courses with a grade of "C-" or higher in each course.
8. Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in biology department courses.
9. Complete the appropriate application for graduation form.
10. Successful completion of at least one Global/Intercultural course.

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Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track.

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and Italicized.

Semester 1	Course Title	Credit Hours
BIOL 1610	College Biology I	4
BIOL 1615	College Biology I Lab	1
ENGL 1010	Introduction to Writing	3
Fine Arts Distribution		3
MATH 1050 or MATH 1055	College Algebra or College Algebra with Preliminaries	4
	Semester total:	15
Semester 2	Course Title	Credit Hours
BIOL 1620	College Biology II	3
BIOL 1625	College Biology II Lab	1
ENGL 2020	Intermediate Writing- Science and Technology	3
CHEM 1210	Principles of Chemistry I	4
CHEM 1215	Principles of Chemistry I Lab	1
Humanities Distribution		3
	Semester total:	15
Semester 3	Course Title	Credit Hours
CHEM 1220	Principles of Chemistry II	4
CHEM 1225	Principles of Chemistry II Lab	1
STAT 2040 or MATH 1060 and MATH 1210	Principles of Statistics or Trigonometry and Calculus	4
PHIL 205G	Ethics and Values	3
American Institutions		3
	Semester total:	15
Semester 4	Course Title	Credit Hours
BIOL 3500	Genetics/Genetics Tutorial	3
CHEM 2310	Organic Chemistry I	4
CHEM 2315	Organic Chemistry I Lab	1
Social/Behavioral Science Distribution		3
PES 1097 or HLTH 1100	Fitness for Life or Personal Health and Wellness	2
Elective	Upper Division Course from BIOL, BOT, MICR, or ZOOL	3
	Semester total:	16
Semester 5	Course Title	Credit Hours
BIOL 3700	General Ecology	3
BIOL 3400	Cell Biology	3
CHEM 2320	Organic Chemistry II	4
CHEM 2325	Organic Chemistry II Lab	1
Elective	Upper Division Course from BIOL, BOT, MICR, or ZOOL	4
BIOL 497R	Biology Colloquium	0.5
	Semester total:	15.5
Semester 6	Course Title	Credit Hours
BIOL 3600	Biological Chemistry	3
PHYS 2010	College Physics I	4
PHYS 2015	College Physics I Lab	1
BIOL 3550	Molecular Biology	3
Zoology Elective	See Catalog (Except ZOOL 1090)	3
BIOL 497R	Biology Colloquium	0.5
	Semester total:	14.5
Semester 7	Course Title	Credit Hours
BIOL 4500	Principles of Evolution	3
Botany Elective	See Catalog	3
PHYS 2020	College Physics II	4
PHYS 2025	College Physics II Lab	1
Elective	Upper Division Course from BIOL, BOT, MICR, or ZOOL	3
	Semester total:	14
Semester 8	Course Title	Credit Hours
BIOL 494R	Student Seminar	1
Micr Elective	See Catalog	4
Elective	Upper Division Course from BIOL, BOT, MICR, or ZOOL	10
	Semester total:	15
	Degree total:	120