

Biology Education, B.S.

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Requirements

Biology is the study of living organisms and includes study of subjects such as evolution, ecology, zoology, physiology, anatomy, and botany among other subjects. Completion of this degree will prepare students to teach classes in high school biology, and related subjects, plus integrated science at the 7th grade level.

Total Program Credits: 126

Matriculation Requirements:			
Admission to Professional Education status is a requirement for enrollment in professional studies level courses. Admission criteria includes:			
1. ACT exam minimums: Composite 21, English 20, Math 19; or SAT exam minimums: Critical Read /Math 1000, with Math and Reading scores of 450; or if student has a bachelor degree or higher, he/she does not need to meet this testing requirement.			
2. GPA of 3.0 or higher with no grade lower than a C in content area courses.			
3. Completion of all General Education requirements and the majority of content area courses.			
4. Pass LiveScan Criminal Background Check.			
General Education Requirements:			38 Credits
	ENGL 1010	Introduction to Academic Writing	3
or	ENGL 1005	Literacies and Composition Across Context (5.0)	
	ENGL 2010	Intermediate Writing Academic Writing and Research	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 1110	Elementary Chemistry for the Health Sciences	4
	PHYS 1010	Elementary Physics	3
Humanities Distribution			3
Fine Arts Distribution			3
Social/Behavioral Science Distribution			3
Discipline Core Requirements:			88 Credits

	BIOL 1615	College Biology I Laboratory	1
	BIOL 1620	College Biology II	3
	BIOL 1625	College Biology II Laboratory	1
	MICR 2060	Microbiology for Health Professions	3
and	MICR 2065	Microbiology for Health Professions Laboratory	1
or	MICR 3450	General Microbiology (3.0)	
and	MICR 3455	General Microbiology Laboratory (1.0)	
	BIOL 3500	Genetics	3
	BIOL 3700	General Ecology	3
	BIOL 4200	Teaching Methods in Science	3
	BIOL 4500	Principles of Evolution WE	3
	BIOL 494R	Student Seminar WE	2
	BOT 2050	Field Botany	3
or	BOT 2100	Flora of Utah (3.0)	
or	BOT 4300	Native Trees and Shrubs of Utah (3.0)	
	BOT 3340	Plant Biology	4
	ZOOL 2320	Human Anatomy	3
	ZOOL 2325	Human Anatomy Laboratory	1
	ZOOL 2420	Human Physiology	3
	ZOOL 2425	Human Physiology Laboratory	1
	ZOOL 3100	Vertebrate Zoology	3
	ZOOL 3105	Vertebrate Zoology Laboratory	1
	ZOOL 3200	Invertebrate Zoology	3
	ZOOL 3205	Invertebrate Zoology	1
	CHEM 1115	Elementary Chemistry Laboratory	1
	CHEM 1120	Elementary Organic Bio-Chemistry	4
	CHEM 1125	Elementary Organic Bio-Chemistry Laboratory	1
	GEO 1010	Introduction to Geology	3
	GEO 1015	Introduction to Geology Laboratory	1
Education Courses: ¹			
	EDEL 1010	Introduction to Education	2
	EDSC 3000	Educational Psychology	3
	EDSC 3250	Instructional Media	2
	EDSC 4200	Classroom Management I	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies	3
	EDSC 445G	Multicultural Instruction ESL	3
	EDSC 455G	Secondary Curriculum Instruction and Assessment	3
	EDSC 4850	Student Teaching--Secondary	8
	EDSC 4990	Teacher Performance Assessment Project WE	2
	EDSP 340G	Exceptional Students	2

Graduation Requirements:

1. Complete the required minimum credit hours.

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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 30 credits must be in the major (BIOL, BOT, MICR, or ZOOL prefixes), courses as follows: minimum of 9 Biology credits must be taken at UVU and a minimum of 20 Biology credits must be upper-division.
6. Complete the appropriate application for graduation form.
7. Successful completion of at least one Global/Intercultural course.
8. Overall Grade of 3.0 (B) or above with no grade lower than a C or better in major required content courses and no grade lower than a B- in Licensure and Methods courses.

Footnotes:
1-Must be completed with a grade of B- or higher.

Biology Education, B.S.**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
<i>BIOL 1610</i>	College Biology I	4
BIOL 1615	College Biology I Lab	1
<i>ENGL 1010 or ENGH 1005</i>	Introduction to Academic Writing or Literacies and Composition Across Context	3
<i>MATH 1050 or MATH 1055</i>	College Algebra or College Algebra with Preliminaries	4
American Institutions	GE List	3
	Semester total:	15
Semester 2	Course Title	Credit Hours
<i>BIOL 1620</i>	College Biology II	3
BIOL 1625	College Biology II Lab	1
<i>BIOL 3500</i>	Molecular Genetics	3
<i>ENGL 2010</i>	Intermediate Writing Academic Writing and Research	3
PHIL 2050	Ethics and Values	3
HLTH 1100 or PES 1097	Personal Health and Wellness or Fitness for Life	2
	Semester total:	15
Semester 3	Course Title	Credit Hours
BIOL 3700	General Ecology	3
<i>CHEM 1110</i>	Elementary Chemistry for Health Sciences	4
<i>CHEM 1115</i>	Elementary Chemistry Lab	1
GEO 1010	Introduction to Geology	3
GEO 1015	Introduction to Geology Lab	1
PHYS 1010	Elementary Physics	3
	Semester total:	15
Semester 4	Course Title	Credit Hours
ZOOL 2320	Human Anatomy	3
ZOOL 2325	Human Anatomy Lab	1
MICR 2060 and MICR 2065 or MICR 3450 and MICR 3455	Microbiology for Health Professions and Microbiology for Health Professions Lab or General Microbiology and General Microbiology Laboratory	4
<i>CHEM 1120</i>	Elementary Organic Bio-Chemistry	4
<i>CHEM 1125</i>	Elementary Organic Bio-Chemistry Lab	1

BOT 2050 or BOT 2100 of BOT 4300	Field Botany or Flora of Utah or Native Trees and Shrubs of Utah	3
	Semester total:	16
Notes: Student would apply to Secondary Education Program during this semester.		
Semester 5	Course Title	Credit Hours
ZOOL 2420	Human Physiology	3
ZOOL 2425	Human Physiology Lab	1
BOT 3340	Plant Biology	4
ZOOL 3200	Invertebrate Zoology	3
ZOOL 3205	Invertebrate Zoology Laboratory	1
Humanities Distribution	GE List	3
Social/Behavioral Science Distribution	GE List	3
	Semester total:	18
Notes: Student would apply to Secondary Education Program during this semester.		
Semester 6	Course Title	Credit Hours
ZOOL 3100	Vertebrate Zoology	3
ZOOL 3105	Vertebrate Zoology Lab	1
BIOL 494R	Student Seminar WE	1
Fine Arts Distribution	GE List	3
EDEL 1010	Introduction to Education	2
EDSC 3250	Instructional Media	2
BIOL 4500	Principles of Evolution WE	3
	Semester total:	16
Semester 7	Course Title	Credit Hours
BIOL 4200	Teaching Methods in Science	3
EDSC 3000	Educational Psychology	3
EDSC 4440	Content Area Literacies	3
EDSC 445G	Multicultural Instruction/ESL	3
EDSC 455G	Secondary Curriculum Instruction and Assessment	3
<i>EDSC 4200</i>	Classroom Management I	2
	Semester total:	17
Semester 8	Course Title	Credit Hours
EDSC 4250	Classroom Management II	2
EDSC 4850	Student Teaching-Secondary	8
EDSC 4990	Teacher Performance Assessment Project WE	2
EDSP 340G	Exceptional Students	2
	Semester total:	14
	Degree total:	126

