

Botany, B.S.

Requirements

Students interested in botany, or related fields, are strongly encouraged to earn at least a baccalaureate degree (BS). To be competitive in the job market additional post-baccalaureate education is suggested. The BS degree in Botany may be used for entry into a career or in preparation for graduate (Masters/ PhD) or professional schools (medical, pharmacy etc.).

Total Program Credits: 120

Matriculation Requirements:			
1. BIOL 1610 with C- or higher and approval of Biology Department adviser.			
General Education Requirements:		39 Credits	
	ENGL 1010	Introduction to Academic Writing	3
or	ENGH 1005	Literacies and Composition Across Context (5)	
	ENGL 2010	Intermediate Writing Academic Writing and Research	3
	MATH 1050	College Algebra	4
or	MATH 1055	College Algebra with Preliminaries (5)	
Complete one of the following:		3	
	HIST 2700	US History to 1877 (3)	
and	HIST 2710	US History since 1877 (3)	
	HIST 1700	American Civilization (3)	
	HIST 1740	US Economic History (3)	
	POLS 1000	American Heritage (3)	
	POLS 1100	American National Government (3)	
Complete the following:			
	PHIL 2050	Ethics and Values	3
	HLTH 1100	Personal Health and Wellness (2)	
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:		63 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 4500	Principles of Evolution WE	3
	BIOL 492R	Professional Development	1
	BIOL 494R	Student Seminar WE	2
	BIOL 497R	Biology Colloquium (0.5 cr, two required)	1

	BOT 2100	Flora of Utah	3
or	BOT 2050	Field Botany (3)	
	BOT 2400	Plant Kingdom	4
	BOT 4050	Plant Ecology	3
	BOT 4055	Plant Ecology Laboratory	1
	BOT 4100	Plant Anatomy	4
	BOT 4200	Plant Systematics	3
	BOT 4300	Native Trees and Shrubs of Utah	3
or	BOT 4500	Introduction to Grasses (3)	
	BOT 4600	Plant Physiology	3
and	BOT 4605	Plant Physiology Laboratory WE	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
	STAT 2040	Principles of Statistics	4
or	MATH 1060	Trigonometry (3)	
and	MATH 1210	Calculus I (5)	
	MICR 3450	General Microbiology	3
and	MICR 3455	General Microbiology Laboratory	1
	PHYS 2010	College Physics I	4
	PHYS 2015	College Physics I Lab	1
Elective Requirements:		18 Credits	
	Additional credits to meet credit and upper-division requirements.		18

Graduation Requirements:

1. Complete the required minimum credit hours.
2. Completion of GE and specified departmental requirements.
3. If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
4. At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
5. A minimum of 40 credits must be upper-division (numbered 3000 or above).
6. A minimum of 40 credits must be in the Biology Department (BIOL, BOT, BTEC, MICR, or ZOOL prefixes), 30 of which must be upper-division. A minimum of nine Biology Department credits must be taken at UVU.
7. Complete discipline 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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Botany, 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>MATH 1050</i> or <i>MATH 1055</i>	College Algebra or College Algebra with Preliminaries	4
Social/Behavioral Science		3
<i>ENGL 1010</i> or <i>ENGH 1005</i>	Introduction to Academic Writing or Literacies and Composition Across Context	3
Fine Arts		3
<i>BOT 2050*</i>	Field Botany	3
	Semester total:	16
Notes: *BOT 2100 - Flora of Utah can be taken in place of this course (offered summer only)		
Semester 2	Course Title	Credit Hours
<i>BIOL 1610</i>	College Biology I	4
<i>BIOL 1615</i>	College Biology I Lab	1
STAT 2040 (or <i>Math 1060</i> and 1210)*	Principles of Statistics (or Trigonometry and Calculus I)	4
ENGL 2010	Intermediate Writing	3
PES 1097 or HLTH 1100	Fitness for Life or Personal Health and Wellness	2
	Semester total:	14
Notes: *If student is choosing Math 1210 - Calculus 1 instead of Stat 2040, then Math 1210 will be taken in Semester 3		
Semester 3	Course Title	Credit Hours
<i>BIOL 1620</i>	College Biology II	3
<i>BIOL 1625</i>	College Biology II Lab	1
<i>CHEM 1210</i>	Principles of Chemistry I	4
<i>CHEM 1215</i>	Principles of Chemistry I Lab	1
<i>BIOL 3500</i>	Genetics	3
American Institutions		3
	Semester total:	15
Semester 4	Course Title	Credit Hours
<i>BOT 2400</i>	Plant Kingdom	4
<i>CHEM 1220</i>	Principles of Chemistry II	4
<i>CHEM 1225</i>	Principles of Chemistry II Lab	1

Humanities		3
Elective	Any Upper Division elective	3
	Semester total:	15
Semester 5	Course Title	Credit Hours
<i>PHIL 205G</i>	Ethics and Values/GI	3
<i>BOT 4050</i>	Plant Ecology	3
<i>BOT 4055</i>	Plant Ecology Lab	1
<i>CHEM 2310</i>	Organic Chemistry I	4
<i>CHEM 2315</i>	Organic Chemistry I Lab	1
BIOL 497R	Biology Colloquium	0.5
Elective	Any elective	3
	Semester total:	15.5
Semester 6	Course Title	Credit Hours
BOT 4100	Plant Anatomy	4
PHYS 2010	College Physics I	4
PHYS 2015	College Physics I Lab	1
<i>BIOL 3400</i>	Cell Biology	3
BIOL 497R	Biology Colloquium	0.5
Elective	Any Upper Division elective	3
	Semester total:	15.5
Semester 7	Course Title	Credit Hours
BOT 4600/4605	Plant Physiology and Lab	4
<i>BOT 4300*</i>	Native Trees and Shrubs of Utah	3
BIOL 494R	Student Seminar WE	2
BOT 492R	Professional Development	1
Elective	Upper Division Elective	5
	Semester total:	15
Notes: *BOT 4500 - Grasses can be taken in place of this course (spring only)		
Semester 8	Course Title	Credit Hours
MICR 3450	General Microbiology	3
MICR 3455	General Microbiology Lab	1
BIOL 4500	Principles of Evolution WE	3
<i>BOT 4200**</i>	Plant Systematics	3
Biol 492R	Professional Development	1
Elective	Any elective	3
	Semester total:	14
Notes: **Course is only available Spring even years. Student must plan accordingly		
	Degree total:	120

Degree Note: This plan is assuming Semester 1 is Fall semester. Botany courses are specific to fall or spring, and will need to be planned accordingly.

	Degree total:	120
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