

Please visit the catalog archive for details about 2022-23 degrees and programs.

Page PDF

- DEGREES & PROGRAMS
- COURSES
- COLLEGES & SCHOOLS
- FACULTY
- CAREER CONNECTIONS
- ONLINE PROGRAMS

- Academic Calendar
- Academic Policies & Standards
- Administration
- Admissions
- Campus Safety
- Essential Learning Outcomes
- Financial Aid & Scholarships
- General Education
- General Information
- Graduation
- Registration
- Student Code of Conduct
- Student Services
- Tuition & Fees

Biology, A.A.

REQUIREMENTS	GRADUATION PLAN	DEPARTMENT	PROGRAM DETAILS
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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 AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor's program and meet the minimum requirements.

Total Program Credits: 60

General Education Requirements:			39 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGL 1005	Literacies and Composition Across Contexts CC (5.0)	
	ENGL 2010	Intermediate Academic Writing CC	3
	MATH 1050	College Algebra QL	4
or	MATH 1055	College Algebra with Preliminaries QL (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 AS (3.0)	
and	HIST 2710	US History since 1877 AS (3.0)	
	HIST 1700	American Civilization AS (3.0)	
	HIST 1740	US Economic History AS (3.0)	
	POLS 1000	American Heritage SS (3.0)	
	POLS 1100	American National Government AS (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
or	PHIL 205G	Ethics and Values IH GI (3.0)	
	HLTH 1100	Personal Health and Wellness TE (2.0)	
or	EXSC 1097	Fitness for Life TE	2
Distribution Courses:			
	BIOL 1610	College Biology I BB (To be taken with BIOL 1615)	4
	CHEM 1210	Principles of Chemistry I PP (To be taken with CHEM 1215)	4
	CHEM 1220	Principles of Chemistry II PP (To be taken with CHEM 1225)	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			13 Credits
Complete the following:			
	BIOL 1615	College Biology I Laboratory (To be taken with BIOL 1610)	1
	BIOL 1620	College Biology II	3
and	BIOL 1625	College Biology II Laboratory	1
	CHEM 1215	Principles of Chemistry I Laboratory (To be taken with CHEM 1210)	1
	CHEM 1225	Principles of Chemistry II Laboratory (To be taken with CHEM 1220)	1
	Minimum of 2 additional biology courses (BIOL, BOT, BTEC, MICR, or ZOO prefixes). ¹		6
Elective Requirements:			8 Credits
	Same Foreign Language.		8

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.
5. For the AA degree, completion of 8 credit hours of course work from one language.

Footnote

¹ BIOL 1010 cannot be used to meet this requirement. See Biology Advisor

[^ Back to Top](#)

STUDENT

- [ADMISSIONS](#)
- [ACADEMICS](#)
- [CAMPUS LIFE](#)
- [LOOKING TO ATTEND UVU](#)
- [CURRENT STUDENT](#)
- [ACCREDITATION](#)

STAFF

- [AREAS OF SUPPORT](#)
- [DIRECTORY](#)
- [TALENT BUREAU](#)
- [WORK AT UVU](#)
- [HUMAN RESOURCES](#)

FACULTY

- [MEET THE FACULTY](#)
- [ALUMNI](#)

COMMUNITY

- [VISITORS & COMMUNITY](#)
- [OFFICE OF THE PRESIDENT](#)
- [ABOUT UVU / HISTORY](#)
- [INCLUSION & DIVERSITY](#)
- [ESPAÑOL](#)
- [GIVE TO UVU](#)
- [CONTACT US](#)

UTILITY

- [COVID-19 INFO](#)
- [MAPS / PARKING](#)
- [SERVICE DESK](#)
- [EMERGENCY](#)
- [POLICE](#)
- [GET HELP](#)
- [SEARCH](#)
- [ACCESSIBILITY](#)
- [TITLE IX / EQUAL OPPORTUNITY](#)

Please visit the catalog archive for details about 2022-23 degrees and programs.

Page PDF

- DEGREES & PROGRAMS
- COURSES
- COLLEGES & SCHOOLS
- FACULTY
- CAREER CONNECTIONS
- ONLINE PROGRAMS

- Academic Calendar
- Academic Policies & Standards
- Administration
- Admissions
- Campus Safety
- Essential Learning Outcomes
- Financial Aid & Scholarships
- General Education
- General Information
- Graduation
- Registration
- Student Code of Conduct
- Student Services
- Tuition & Fees

Biology, A.S.

REQUIREMENTS	GRADUATION PLAN	DEPARTMENT	PROGRAM DETAILS
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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 AS/AA degree is intended for students who plan to use it as a first step toward a baccalaureate degree. The AS/AA degree may be granted to those who do not continue in a bachelor's program and meet the minimum requirements.

Total Program Credits: 60

General Education Requirements:			39 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGL 2010	Intermediate Academic Writing CC	3
	ENGL 1005	Literacies and Composition Across Contexts CC (5.0)	
	MATH 1050	College Algebra QL	4
or	MATH 1055	College Algebra with Preliminaries QL (5.0)	
Complete one of the following:			3
	HIST 2700	US History to 1877 AS (3.0)	
and	HIST 2710	US History since 1877 AS (3.0)	
	HIST 1700	American Civilization AS (3.0)	
	HIST 1740	US Economic History AS (3.0)	
	POLS 1000	American Heritage SS (3.0)	
	POLS 1100	American National Government AS (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
or	PHIL 205G	Ethics and Values IH GI	
	HLTH 1100	Personal Health and Wellness TE (2.0)	
or	EXSC 1097	Fitness for Life TE	2
Distribution Courses:			
	BIOL 1610	College Biology I BB (To be taken with BIOL 1615)	4
	CHEM 1210	Principles of Chemistry I PP (To be taken with CHEM 1215)	4
	CHEM 1220	Principles of Chemistry II PP (To be taken with CHEM 1225)	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3
Discipline Core Requirements:			13 Credits
Complete the following:			
	BIOL 1615	College Biology I Laboratory (To be taken with BIOL 1610)	1
	BIOL 1620	College Biology II	3
and	BIOL 1625	College Biology II Laboratory	1
	CHEM 1215	Principles of Chemistry I Laboratory (To be taken with CHEM 1210)	1
	CHEM 1225	Principles of Chemistry II Laboratory (To be taken with CHEM 1220)	1
	Minimum of 2 additional biology courses (BIOL, BOT, MICR, or ZOOL prefixes). ¹		6
Elective Requirements:			8 Credits
	Complete any course 1000 or higher. See Biology Advisor.		8

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements.

Footnote

¹BIOL 1010 cannot be used to meet this requirement. See Biology Advisor.

[^ Back to Top](#)

STUDENT

- [ADMISSIONS](#)
- [ACADEMICS](#)
- [CAMPUS LIFE](#)
- [LOOKING TO ATTEND UVU](#)
- [CURRENT STUDENT](#)
- [ACCREDITATION](#)

STAFF

- [AREAS OF SUPPORT](#)
- [DIRECTORY](#)
- [TALENT BUREAU](#)
- [WORK AT UVU](#)
- [HUMAN RESOURCES](#)

FACULTY

- [MEET THE FACULTY](#)
- [ALUMNI](#)

COMMUNITY

- [VISITORS & COMMUNITY](#)
- [OFFICE OF THE PRESIDENT](#)
- [ABOUT UVU / HISTORY](#)
- [INCLUSION & DIVERSITY](#)
- [ESPAÑOL](#)
- [GIVE TO UVU](#)
- [CONTACT US](#)

UTILITY

- [COVID-19 INFO](#)
- [MAPS / PARKING](#)
- [SERVICE DESK](#)
- [EMERGENCY](#)
- [POLICE](#)
- [GET HELP](#)
- [SEARCH](#)
- [ACCESSIBILITY](#)
- [TITLE IX / EQUAL OPPORTUNITY](#)

Please visit the catalog archive for details about 2022-23 degrees and programs.

Page PDF

- DEGREES & PROGRAMS
- COURSES
- COLLEGES & SCHOOLS
- FACULTY
- CAREER CONNECTIONS
- ONLINE PROGRAMS

- Academic Calendar
- Academic Policies & Standards
- Administration
- Admissions
- Campus Safety
- Essential Learning Outcomes
- Financial Aid & Scholarships
- General Education
- General Information
- Graduation
- Registration
- Student Code of Conduct
- Student Services
- Tuition & Fees

Biology, B.S.

REQUIREMENTS	GRADUATION PLAN	DEPARTMENT	PROGRAM DETAILS
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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 College Biology I with C- or higher and approval of Biology Department advisor.

General Education Requirements: 39 Credits

	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGL 1005	Literacies and Composition Across Contexts CC (5)	
	ENGL 2010	Intermediate Academic Writing CC	3
	MATH 1050	College Algebra QL	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
Complete one of the following:			3
	HIST 2700	US History to 1877 AS	
and	HIST 2710	US History since 1877 AS (6)	
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	

Complete the following:

	PHIL 2050	Ethics and Values IH	3
or	PHIL 205G	Ethics and Values IH GI (3)	
	HLTH 1100	Personal Health and Wellness TE (2)	
or	EXSC 1097	Fitness for Life TE	2

Distribution Courses:

	BIOL 1610	College Biology I BB	4
	CHEM 1210	Principles of Chemistry I PP	4
	CHEM 1220	Principles of Chemistry II PP	4
	Humanities Distribution		3
	Fine Arts Distribution		3
	Social/Behavioral Science		3

Discipline Core Requirements: 54 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 WE	3
	BIOL 492R	Professional Development	1
	BIOL 494R	Student Seminar WE	2
	BIOL 497R	Biology Colloquium (0.5 cr, two required)	1

Complete one of the following upper division lab courses: *One course from this category needs to be taken although only 1 credit hour is required.*

	BIOL 3100	Introduction to Data Analysis for Biologists (3)	
	BIOL 3200	Guided Research Experience (1-3)	
	BIOL 3405	Cell Biology Laboratory (1)	
	BIOL 3515	Advanced Genetics Laboratory (1)	
	BIOL 3555	Experiments in Molecular Biology (1)	
	BIOL 4300	Bioinformatics and Genome Analysis (4)	
	BIOL 4550	Molecular Evolution and Bioinformatics WE (3)	
	MICR 3150	Microbial Ecology WE (4)	
	MICR 3455	General Microbiology Laboratory (1)	
	MICR 4505	Applied Virological Methods (3)	
	BOT 3500	Mycology (4)	
	BOT 3800	Ethnobotany WE (4)	
	BOT 4100	Plant Anatomy (4)	
	BOT 4200	Plant Systematics (3)	
	BOT 4430	Plant Pathology (3)	
	BOT 4600	Plant Physiology WE	
and	BOT 4605	Plant Physiology Laboratory (4)	
	BOT 4700	Plant Tissue Culture WE (4)	

Complete one of the following:

	STAT 2040	Principles of Statistics QL	4
or	MATH 1060	Trigonometry QL (3)	
and	MATH 1210	Calculus I QL (5)	
	PHYS 2010	College Physics I PP	4
	PHYS 2015	College Physics I Lab	1
	PHYS 2020	College Physics II PP	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: 27 Credits

	Choose 4 credits from any MICR electives. ¹	4
	Choose 3 credits from any BOT electives. ¹	3
	Choose 3 credits from any ZOOL electives. ¹	3
	Additional credits to meet credit and upper-division requirements.	17

Graduation Requirements:

- Complete the required minimum credit hours.
- If an AA or AS degree has been earned, a maximum of 64 of these credits may apply toward the BS.
- At least 30 credit hours in residence at UVU or satellite sites are required, with 10 hours earned during the last 45 hours.
- A minimum of 40 credits must be upper-division (numbered 3000 or above).
- 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.
- 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.
- Complete Biology Department core courses with a grade of "C-" or higher in each course.
- Achieve a minimum overall GPA of 2.0 with a minimum GPA of 2.25 in biology department courses.
- Complete the appropriate application for graduation form.
- Successful completion of at least one Global/Intercultural course.

Footnote

¹ Upper division is suggested to meet upper division requirements

^ Back to Top

STUDENT

- ADMISSIONS
- ACADEMICS
- CAMPUS LIFE
- LOOKING TO ATTEND UVU
- CURRENT STUDENT
- ACCREDITATION

STAFF

- AREAS OF SUPPORT
- DIRECTORY
- TALENT BUREAU
- WORK AT UVU
- HUMAN RESOURCES

FACULTY

- MEET THE FACULTY
- ALUMNI

COMMUNITY

- VISITORS & COMMUNITY
- OFFICE OF THE PRESIDENT
- ABOUT UVU / HISTORY
- INCLUSION & DIVERSITY
- ESPAÑOL
- GIVE TO UVU
- CONTACT US

UTILITY

- COVID-19 INFO
- MAPS / PARKING
- SERVICE DESK
- EMERGENCY
- POLICE
- GET HELP
- SEARCH
- ACCESSIBILITY
- TITLE IX / EQUAL OPPORTUNITY