

Biological Science

Degree Type

Associate in Science

The Biological Science Associate in Science degree serves students who intend to transfer to a 4- year institution to pursue a bachelor's degree with a major field related to biological or biomedical sciences. It is designed to replicate the course schedule for the freshman and sophomore years at a bachelor's degree granting institution such as the University of New Hampshire, and with sufficiently high math placement, is fully transferable to the College of Life Science and Agriculture at UNH.

Program Outcomes

Students will be able to:

- Understand theoretical principles across a broad range of sub-disciplines in biological sciences and chemistry.
- Understand and be able to apply principles of mathematics as they pertain to the study of biological science and chemistry.
- Understand and be able to apply the scientific method.
- Understand and be able to execute a wide variety of laboratory techniques in microbiology, biochemistry, cell biology, ecology, genetics, and chemistry.
- Generate and maintain accurate lab documentation, including a laboratory notebook.
- Analyze and draw conclusions from generated scientific data, and present findings both orally and in formal laboratory reports.
- Conduct basic bioinformatics-based analysis.
- Qualify for transfer to a four-year college or university with the necessary foundation in biology, chemistry, and mathematics for upper level study in a wide variety of biological disciplines.

Technical Standards

Students enrolling in Biological Science degree programs must, in addition to meeting the specific pre-requisite requirements for each course, meet the following general, technical standards:

- Students must be able to comprehend the English language, both oral and written, and must have sufficient manual dexterity to produce legible written documents in a timely manner.
- Students must be able to sit or stand at a desk/ laboratory bench and must possess the necessary focus to stay on task for extended periods of time.
- Students must be able to comprehend and follow instructions in the classroom and laboratory in a timely manner.
- Students must possess the necessary manual dexterity to carry out assigned laboratory tasks.
- Students must be able to perform required classroom and laboratory operations, including mathematical operations, without reference to notes, as directed.

First Year

Fall Semester

Item #	Title	Theory Hours	Lab Hours	Credits
	ENGL110G/111G	4	0	4-5
BIOL108G	General Biology I	3	3	4
	MATH150/152G (Biological Science)	4	0	4-5
CHEM115G	General Chemistry I	3	3	4
Sub-Total Credits		14-15	6-8	16-18

Spring Semester

Item #	Title	Theory Hours	Lab Hours	Credits
BIOL109G	General Biology II	3	3	4
CHEM116G	General Chemistry II	3	3	4
MATH210G	Pre-Calculus	4	0	4
ENGL214G	Introduction to Creative Nonfiction	3	0	3
Sub-Total Credits		13	6	15

MATH210G: Students with appropriate test scores or the appropriate prerequisite may substitute a higher-level course from the Calculus math pathway: MATH230G, MATH235G, MATH250G, MATH265G.

Second Year

Fall Semester

Item #	Title	Theory Hours	Lab Hours	Credits
	BIOLXXXG - Biology Elective	3	3	4
	Math/Science Elective	3	0	4
	Math/Science Elective	3	0	4
	Humanities/Foreign Language/Fine Arts Elective*	3	0	3
Sub-Total Credits		12-14	3-9	15

Spring Semester

Item #	Title	Theory Hours	Lab Hours	Credits
	BIOLXXXG - Biology Elective	3	3	4
	Math/Science Elective	3	0	4
	Social Science Elective*	3	0	3-4
	Open Elective(s)	3	0	3-4
Sub-Total Credits		12-15	3-6	14-16

Note: at least two of the five courses taken as Biology and Math/Science Electives must be at the 200 level.

Total Credits			60-64
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