BIOLOGY (AS)

Associate of Science

Transfer Program
Interest Areas:
Science, Tech., Engr. and Math

The biological sciences deal with the basic principles of all living things: structure, function, and ecological associations. An understanding of biological principles is important in a wide variety of fields, including medical sciences, education, agriculture, forestry, and environmental sciences.

Completion of the following courses results in an Associate of Science Degree with an area of emphasis in Biology. The required coursework normally fulfills the first half of baccalaureate degree requirements in Biology. Course selection should be tailored to match requirements defined by the intended transfer institution.

Contact Information:
Natural Sciences Division
Meyer Health and Sciences Building, Room 250
Phone: (208) 769-3495
Program Website (https://www.nic.edu/programs/biology-botany-and-zoology/)

Program Requirements

Code	Title	Credits
General Education Requirements		
GEM 1 - Written Communication		6
GEM 2 - Oral Communication		3
GEM 3 - Mathematical Ways of Knowing [1]		0
GEM 4 - Scientific Ways of Knowing [1]		0
GEM 5 - Humanistic and Artistic Ways of Knowing		6
GEM 6 - Social and Behavioral Ways of Knowing		6
GEM 7W - Wellness		1-3
Select one of the following:		3
GEM 7F - First Year Experience		
GEM 7I - Institutionally Designated		
Program Requirements		
BIOL-114	Organisms and Environments	4
BIOL-115	Introduction to Life Sciences	4
CHEM-111	General Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
PHYS-111	General Physics I	4-5
or PHYS-211	Engineering Physics I	
MATH-160	Survey of Calculus	4
or MATH-170	Calculus I	
Program Electives [2]		**9**
BACT-250	General Microbiology	
BIOL-101	Introduction to Natural Resources	
BIOL-175	Human Biology	
or BIOL-227	Human Anatomy and Physiology I	
BIOL-221	Forest Ecology	
or BIOL-231	General Ecology	
BIOL-228	Human Anatomy and Physiology II With Cadaver	
BIOL-251	Principles of Range Resources Management	
BIOL-290	Principles of Wildlife Biology	
BTNY-203	General Botany	
BTNY-241	Systematic Botany	
CHEM-253	Quantitative Analysis	
CHEM-275	Carbon Compounds	
CHEM-277	Organic Chemistry I	
CHEM-278	Organic Chemistry I Lab	
CHEM-287	Organic Chemistry II	
CHEM-288	Organic Chemistry II Lab	
MATH-253	Statistical Methods	
PHYS-112	General Physics II	
or PHYS-212	Engineering Physics II	
ZOOL-202	General Zoology	
Total Credits		**60-63**

[1] This General Education Requirement is met by the Program Requirements.
[2] Select courses based on major and/or intended transfer institution.

Course Key

GEM	AAS Institutionally Designated	Gateway	Milestone

Program Outcomes

Upon completion of the program, students will be able to:

1. Explain major concepts in biological sciences.
2. Demonstrate proper lab techniques and use of biological instrumentation.
3. Communicate biological knowledge in oral and written form.
4. Explain the relationships between structure and function at all levels of the biological hierarchy.
5. Read, interpret and critically respond to scientific information.
6. Demonstrate ethical conduct in scientific activities.
7. Apply foundational knowledge to interact with organic, biological specimens in order to develop laboratory and observational skills, and to enhance understanding of the relationships between form and function.

In addition to the program outcomes, students will meet the North Idaho College General Education (GEM) Requirements