

Biology BA/BS

The biology major is designed to provide students with a solid foundation in biology through five core classes covering molecular, cellular, organismal, microbiological, ecological, and evolutionary biology. The flexibility in the program allows students and academic advisers to work together to design a program of study that best suits students' strengths and interests. Upper division electives include courses such as immunology, mammalogy, and animal behavior. Students can opt to participate in undergraduate research projects, serve as teaching assistants, or complete internships. Because of the breadth of course offerings, the Biology Program offers successful preparation for a wide-variety of career paths, including admission to graduate school and numerous health-related professional schools, such as medicine and dentistry. Some graduates are trained to enter the workforce as biologists with organizations such as Idaho Fish and Game, while other students complete courses required for secondary education teaching certification.

The goals of the biology program are to provide students with learning experiences in both the classroom and laboratory so that they can achieve the following:

- Understand cell structure, function, and reproduction;
- Understand the principles of natural selection and evolution;
- Understand organismal form and function;
- Think critically and apply knowledge in novel contexts;
- And, perform basic laboratory procedures in a safe manner.

General Education Core

Written Communication

Select one of the following:		6.00
ENGL-101 & ENGL-102	COLLEGE WRITING and RESEARCH WRITING	
ENGL-109	COLLEGE WRITING AND RESEARCH	

Oral Communication

Select one of the following:		3.00
COMM-101	PRINCIPLES OF SPEECH	
COMM-202	INTERPERSONAL COMMUNICATION	
COMM-203	SMALL GROUP COMMUNICATION	
COMM-204	PUBLIC SPEAKING	

Mathematical Ways of Knowing

MATH-170	CALCULUS I	4.00
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Humanistic & Artistic Ways of Knowing

Select one of the following:		3.00
ENGL-150	INTRODUCTION TO LITERATURE	
ENGL-258	INTERNATIONAL LITERATURE	
ENGL-257	WORLD CLASSICS	
Select one of the following:		3.00
ART-100	SURVEY OF ART	
HUM-101	THE ART AND HISTORY OF THE MOTION PICTURE	
HUM-150	INTRODUCTION TO THE ARTS	
THEA-101	SURVEY OF THE THEATER	

Scientific Ways of Knowing

Select two of the following:		8.00
CHEM-111	PRINCIPLES OF CHEMISTRY I	
PHYS-111 or PHYS-211	GENERAL PHYSICS I ENGINEERING PHYSICS I	

Social & Behavioral Ways of Knowing

Select from two disciplines:		6.00
ANTH-102	CULTURAL ANTHROPOLOGY	
ANTH-120	WORLD PREHISTORY	
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES	

ECON-201	PRINCIPLES AND THEORY OF MACROECONOMICS
ECON-202	PRINCIPLES AND THEORY OF MICROECONOMICS
GEOG-102	INTRODUCTION TO GEOGRAPHY
HIST-101	HISTORY OF CIVILIZATION
HIST-102	HISTORY OF CIVILIZATION
HIST-111	UNITED STATES HISTORY TO 1865
HIST-112	UNITED STATES HISTORY SINCE 1865
HRPT/SS-184	DIVERSITY IN ORGANIZATIONS
HRPT/SS-185	HUMAN RELATIONS IN ORGANIZATIONS
POLS-101	AMERICAN NATIONAL GOVERNMENT
POLS-285	COMPARATIVE GOVERNMENT
PSYC-101	INTRODUCTION TO PSYCHOLOGY
PSYC-205	DEVELOPMENTAL PSYCHOLOGY
SOC-101	INTRODUCTION TO SOCIOLOGY
SOC-102	CURRENT SOCIAL PROBLEMS

Diversity

Select one from the following: 3.00

ANTH-102	CULTURAL ANTHROPOLOGY
ANTH-120	WORLD PREHISTORY
ANTH-170	INTRODUCTION TO NATIVE AMERICAN STUDIES
ANTH-360	RACE AND ETHNICITY
COMM-345	COMMUNICATION AND DIVERSITY
ENGL-258	INTERNATIONAL LITERATURE
ENGL-474	NATIVE AMERICAN WRITTEN LITERATURE
GEOG-102	INTRODUCTION TO GEOGRAPHY
HIST-101	HISTORY OF CIVILIZATION
HIST-102	HISTORY OF CIVILIZATION
HIST-111	UNITED STATES HISTORY TO 1865
HIST-112	UNITED STATES HISTORY SINCE 1865
HRPT/SS-184	DIVERSITY IN ORGANIZATIONS
NP-101	ELEMENTARY NEZ PERCE LANGUAGE I
NP-102	ELEMENTARY NEZ PERCE LANGUAGE II
POLS-285	COMPARATIVE GOVERNMENT
SOC-101	INTRODUCTION TO SOCIOLOGY
SPAN-101	ELEMENTARY SPANISH I
SPAN-102	ELEMENTARY SPANISH II
SPAN-201	INTERMEDIATE SPANISH I
SPAN-202	INTERMEDIATE SPANISH II

Integrative Seminar: Ethics & Values

Select one of the following: 3.00

ID 300A - 300T (see course descriptions for options)	
ID-301A	HELLS CANYON INSTITUTE

Foreign/Heritage Language

Take 16 credits of language if selecting Bachelor of Arts degree 16.00

Total Credits 39.00

Program Requirements**Major Courses**

BIOL-181	ECOLOGY, EVOLUTION, DIVERSITY OF LIFE	4.00
BIOL-182	CONCEPTS IN CELLULAR MECHANISMS	4.00
BIOL-213	PLANT AND ANIMAL FORM AND FUNCTION	4.00
BIOL-341	GENETICS	4.00

BIOL-355	GENERAL MICROBIOLOGY	4.00
or BIOL-362	CELLULAR AND MOLECULAR BIOLOGY	
CHEM-112	PRINCIPLES OF CHEMISTRY II	4.00
CHEM-371	ORGANIC CHEMISTRY I	4.00
& CHEM-373	and ORGANIC CHEMISTRY I LAB	
CHEM-481	BIOCHEMISTRY I	4.00
PHYS-112	GENERAL PHYSICS II	4.00
or PHYS-212	ENGINEERING PHYSICS II	
MATH-253	STATISTICAL METHODS FOR THE SCIENCES	3.00
BIOL-380	BIOLOGY SENIOR SEMINAR	1.00

Electives

Select 23 credits from the following: ¹ 23.00

Select 7-8 credits from BIOL/CHEM/GIS 200/300/400

Select 4 credits from BIOL/CHEM/GIS 300/400

Select 4 credits from BIOL/CHEM 300/400

Select 8 credits from BIOL 300/400

General Electives

Select 26 elective credits 26.00

Total Credits 89.00

¹ 8 or less credits of CHEM/GIS and 3 or less credits total from courses ending in -94, -95, -96, or -99.

Summary

General Education	39
Major	40
Program Credits	23
General Electives	26
Total	128