

Biology

Bachelor of Arts

The Biology program provides students with a comprehensive understanding of living things with examination of plants, animals and microbes on a microscopic and macroscopic level. Students receive hands-on training using sampling and identification techniques in the lab and in the field.

Career Options:

- Public Health Careers
- Academic Research in University Settings
- Conservation Biologist
- Wildlife Biologist
- Research and Product Development in Medical Supply and Pharmaceutical Industries
- Laboratory Technology
- Middle & High School Science Teacher
- Industry Scientist & Outreach Coordinator

Major Requirements:

Life Science w/Lab
Methods in Biology
Cell Biology
Evolution
Intro to Environmental Science*
Conservation Biology
Genetics
Ecology
Ecological Methods
Senior Seminar
Two additional BIO 300-400 level courses (one must include a lab)
General Chemistry I w/Lab

General Chemistry II or General Organic and Biochemistry Requirement
College Algebra (or equivalent)
Elementary Statistics

At least one course from each of the following categories:

1. *Written Communication*: Journalism, Editorial Techniques, Business Communication, Creative Writing
2. *Oral Communication*: Presentation 3, Oral Communication Methods; Fundamental Communication
3. *Business*: Fundamental Accounting; Principles of Management; Computer Software; Principles of Marketing

Minor Requirements:

Life Science w/Lab
Methods in Biology
Cell Biology
Evolution

At least one course from two of the four categories below and one lab:

1. *Animal Form & Function*: Developmental Biology, Developmental Biology Lab, Physiological Ecology, Pathophysiology, Histology
2. *Animal Diversity*: Animal Behavior, Invertebrate Zoology, Vertebrate Zoology
3. *Taxonomic Diversity*: Biology of Plants, Microbiology, Molecular Evolution/Biotechnology
4. *Biology Core*: Genetics, Ecology, Ecological Methods

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General Education Requirements

I. Interdisciplinary Requirements	Credits
Ethics	3
International Studies	3
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Total Hours	6
II. Science Courses	Credits
Mathematics	3
Biology, including lab	4
Physics, Earth Science or Chemistry, incl. lab	4
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Total Hours	11
III. Social Science Courses	Credits
History, Political Science	3
Communication, Economics, Geography or Criminal Justice	3
Psychology or Sociology	3
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Total Hours	9

IV. Humanities Courses	Credits
Religion	3
English Composition	6
Literature	3
Art, Music or Entertainment/Theatre	3
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Total Hours	15
TOTAL GENERAL EDUCATION HOURS	41

Unless otherwise specified, transferred credits may be used to fulfill the general requirements at the Registrar's discretion.

Major Requirements

	Credits		Credits
BIO 101	Life Science	3	
BIO 102	Life Science Lab	1	
BIO 123	Methods in Biology	2	
BIO 200	Cell Biology	3	
BIO 222	Evolution	3	
BIO 224	Intro. to Environmental Science	3	
BIO 301	Conservation Biology	4	
BIO 303	Genetics	4	
BIO 401	Ecology	3	
BIO 402	Ecological Methods	2	
BIO 499	Senior Seminar	3	
<i>Two additional 300-400 level BIO courses, at least one must include lab.</i>			
CHM 111	General Chemistry I	3	
CHM 112	General Chemistry I Lab	1	
CHM 121	General Chemistry II	3	
CHM 122	General Chemistry II Lab	1	
or CHM 201	General Organic & Biochemistry	3	
CHM 202	General Organic & Biochemistry Lab	1	
MAT 113	College Algebra or higher-level equivalent	3	
MAT 213	Elementary Statistics	3	
At least one course including the laboratory from each of the following three categories:			
1. <i>Written Communication:</i>			
ENG 210	Journalism	3	
or ENG 211	Editorial Techniques	3	
or ENG 304	Business Communication	3	
or ENG 305	Creative Writing	3	
2. <i>Oral Communication:</i>			
ENT 120	Presentation	3	
or ENT 140	Oral Communication Methods	3	
or ENG 130	Fundamentals of Communication	3	
3. <i>Business:</i>			
ACC 200	Fundamental Accounting	3	
or BUS 206	Principles of Management	3	
or CIS 310	Computer Software	3	
or MKT 205	Principles of Marketing	3	

A customized plan will be developed for each student.

General Graduation Guidelines:

Total of 120 semester hours, 33 of which must be numbered 300 or 400.

(Other programs may require coursework beyond 120 semester hours.)

At least 9 semester hours of courses designated as writing intensive.

A declared major.

A cumulative GPA average of C (2.00) and at least a C average in the graduation major.