

Department of Science & Math 232

BACHELOR OF SCIENCE BIOLOGY

GSU 100 The First Year Experience 0 hour

All degree seeking students are required to take GSU 100 during their first semester.

General Education Requirements 30 hours

Students must complete BIOL 120 and MATH 115 as part of the General Education requirements.

Biology Major 70 hours

BIOL	120	Principles of Biology I	
BIOL	121	Principles of Biology II	4
BIOL	193	Scientific Writing	1
BIOL	293	Experimental Design	1
BIOL	456	Genetics	4
BIOL	493	Senior Seminar	1
BIOL	497	Internship II (OR)	
BIOL	499	Individual Research Problems	3
CHEM	101	General Chemistry I	4
CHEM	102	General Chemistry II	4
CHEM	301	Organic Chemistry I	4
MATH	115	College Algebra	
MATH	120	Precalculus (OR)	
MATH	125	College Trigonometry	3-4
MATH	256	Probability and Statistics I	3
PHYS	201	General Physics I	4
PHYS	202	General Physics II	4
BIOL	Electives		30

Students are required to complete at least one course from each of the following categories:

Organismal Biology (select at least one)

BIOL	305	General Botany	4
BIOL	314	Zoology	4
BIOL	351	Flora of West Virginia	3
BIOL	361	Microbiology	4
WLMT	404	Mammalogy	4

*WLMT 404 will not count for the one required course in this category. If a student takes WLMT 404, they must select at least two from this category.

Ecology/Evolution (select at least one)

BIOL	371	Evolution	4
BIOL	400	Ecology and Field Biology	4

Cellular/Physiology (select at least one)

BIOL	335	Cell Physiology	4
BIOL	420	Neurobiology	3
BIOL	435	Developmental Biology	4
BIOL	460	Physiological Ecology	4
CHEM	380	Biochemistry I	4
CHEM	381	Biochemistry II	4

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Applied Biology (select at least one)

BIOL	309	Human Anatomy and Physiology I	4
BIOL	310	Human Anatomy and Physiology II	4
BIOL	425	Bioethics	2
BIOL	470	Conservation Biology	4
NRMT	201	Forest Ecology	3

General Electives

19 hours

General electives should be selected with consultation with your advisor to determine the best electives to help you toward a career and/or professional goal.

Total minimum hours required for degree

120 hours

Gateway Assessment - BIOL 293

Capstone Assessment - BIOL 493

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Suggested for a Career in:

Ecology and Conservation

BIOL	305	Botany
BIOL	314	Zoology
BIOL	351	Flora of West Virginia
BIOL	371	Evolution
BIOL	400	Ecology and Field Biology
BIOL	460	Physiological Ecology
BIOL	470	Conservation Biology
NRMT	201	Forest Ecology

Pre-Professional (Pre-Med, Pre-Dental, Pre-Physician Assistant, Pre-Veterinarian)

BIOL	309	Anatomy and Physiology I
BIOL	314	Zoology
BIOL	335	Cell Physiology
BIOL	361	Microbiology
BIOL	371	Evolution
BIOL	420	Neurobiology
BIOL	425	Bioethics
BIOL	435	Developmental Biology
CHEM	302	Organic Chemistry II
CHEM	380	Biochemistry I
CHEM	381	Biochemistry II

Wildlife Biology

Required courses: Completion of these courses will allow eligibility to apply for an Associate Certificate in Wildlife Biology from the Wildlife Society.

BIOL	305	Botany
BIOL	314	Zoology
BIOL	351	Flora of West Virginia
BIOL	371	Evolution
BIOL	400	Ecology and Field Biology
BIOL	460	Physiological Ecology
BIOL	470	Conservation Biology
ENVR	393	Environmental Compliance
PSYC	201	General Psychology or
WLMT	301	Wildlife Law and Policy
WLMT	302	Wildlife Habitat Management
WLMT	404	Mammalogy
WLMT	493	Wildlife Techniques

Other Biology Careers – talk to your advisor about the best courses for you.