

Spring 2020
Bachelor of Science in Biology
Specialization in Ecology & Conservation Biology

BG Perspective (BGP) Requirements

Must complete at least 1 course in each of the following:

English Composition and Oral Communication	
Course	Credits
_____	_____
Quantitative Literacy	
_____	_____

Must Complete at least 2 courses in each of the following:

Humanities and the Arts	
_____	_____
_____	_____
Natural Sciences - at least one Lab Science required	
_____	_____
_____	_____
Social and Behavioral Sciences	
_____	_____
_____	_____

Complete total required BGP credit hours by selecting courses from any of the above categories:

_____	_____
_____	_____
_____	_____

University Requirements Designated courses in Humanities and the Arts and the Social and Behavioral Sciences domains may be used to fulfill both the BGP requirement and one of the following university requirements:

Cultural Diversity in the US	_____
International Perspective	_____

Composition Requirement:

WRIT 1120 Research Writing	_____
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Total BGP Credits: Must be at least 36

Arts & Sciences Requirements

Foreign Language (____ yrs of HS _____)

_____	1010	_____
_____	1020	_____
_____	2010	_____
_____	2020/2120	_____

Lab Science

_____	_____
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Quantitative Literacy

_____	EITHER MATH 1310 OR MATH 1340 & MATH 1350
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Multidisciplinary Component Select from approved offerings, in consultation with an advisor and a faculty mentor. Four courses total, each with a different subject prefix. At least two courses at 3000/4000 level. Courses applied to the Arts & Sciences MDC may not be used to fulfill other Arts and Sciences degree requirements, nor may they be used to fulfill major, minor, BGP or other program requirements.

_____	_____
_____	_____
_____	_____
_____	_____

Major Requirements (36-37 Hrs.)

Core courses in Biology (16 hours)

Hrs	Grade	
1	_____	BIOL 2000 Biology Today
4	_____	BIOL 2040 Concepts in Biology I
4	_____	BIOL 2050 Concepts in Biology II
4	_____	BIOL 3500 Genetics
3	_____	BIOL 3510 Evolution

Complete courses required for the Specialization and Biology electives. Ensure that you have at least 10 hours of courses at the 4000 level.

Ecology & Conservation Biology Specialization

Courses required (6 hours)

3	_____	BIOL 3540 Principles of Ecology
3	_____	BIOL 4090 Conservation Biology OR
		BIOL 4100 Conservation Biology in Practice*

Electives - Complete 3 credit hours in each of the 4 groups, A-D

Group A: Ecology & Conservation

3	_____	BIOL 4090 Conservation Biology OR
		BIOL 4100 Conservation Biology in Practice*
3	_____	BIOL 4160 Landscape Ecology
4	_____	BIOL 4200 Animal Behavior
3	_____	BIOL 4220 Restoration Ecology
3	_____	BIOL 4250 Limnology
3	_____	BIOL 4290 Evolutionary Ecology
3	_____	BIOL 4450 Environmental Microbiology
3	_____	BIOL 4710 Sensory Ecology
3	_____	ENVS 4120 Great Lakes Ecosystems

Group B: Biodiversity

4	_____	BIOL 3130 Microbiology
4	_____	BIOL 3430 Botany
3	_____	BIOL 3740 Marine Biology
4	_____	BIOL 4050 Parasitology
4	_____	BIOL 4140 Plant Taxonomy and Evolution
4	_____	BIOL 4270 Invertebrate Biology
3	_____	BIOL 4300 Wildlife Biology
4	_____	BIOL 4350 Entomology
3	_____	BIOL 4720 Ichthyology
4	_____	BIOL 4730 Mammalogy
3	_____	BIOL 4760 Herpetology
3	_____	BIOL 4770 Ornithology

Group C: Cell, Molecular & Regulatory Biology

4	_____	BIOL 4070 Cell Biology
3	_____	BIOL 4080 Molecular Biology
4	_____	BIOL 4110 Animal Physiology
3	_____	BIOL 4180 Neurophysiology
3	_____	BIOL 4210 Molecular Biotechnology
3	_____	BIOL 4310 Development Biology
4	_____	BIOL 4380 Endocrinology
3	_____	BIOL 4390 Immunobiology
3	_____	BIOL 4430 Microbial Physiology
4	_____	BIOL 4460 Scanning Electron Microscopy
3	_____	BIOL 4470 Microbial Genetics
3	_____	BIOL 4660 Genomics

Group D: Quantitative & Applied Science

1-4	_____	BIOL 4010 Biological Research
1	_____	BIOL 4540 Biology Learning Environment Tours
3	_____	BIOL 4620 Principles of Biometry
1-3	_____	BIOL 4890 Biology Internship
3	_____	ENVS 3010 Environmental Problems
3	_____	ENVS 4020 Environmental Impact Statements
3	_____	SEES 3000 Geospatial Science

***Note:** BIOL 4090 and BIOL 4100 may not count in both the Required Courses or in Group A of Electives.

Biology electives: These courses do not meet group requirements, but do count toward the 10 hours of required courses at the 4000 level: BIOL 4500, 4700, 4900

