BIOLOGY MAJOR WILDLIFE AND ENVIRONMENTAL BIOLOGY CONCENTRATION

DOMAIN GENERAL EDUCATION (10 courses Required):

Domain II B is satisfied through completion of the Biology major, leaving ten courses to be completed to satisfy the remaining general education subdomains through courses taken outside the major department. Only courses designated (Gen. Ed. Domain) after the course title will meet general education requirements.

Common Core:	A. ENWR 110 Composition 2 B. MATH XXX	
Domain I:	A. Creative Arts B. Humanities C. Language	
Domain II:	A. Analysis, Modeling, Problem-Solving B. Sciences (two; one must be a lab science)	
Domain III:	A. Perspectives on the Past	
	B. Perspectives on Contemp. World	
	C. Global Comp., Eth. Reas., Human Div.	
BIOLOGY MAJOR AND RELATED COURSES:		
Required Major	Related Core Courses (12):	
BIOL 125	The Biology Experience	
	Foundations of Biological Science with Lab	
BIOL 208/208L	Genetics with Lab	
	Professional Communication in Biology	
BIOL 262/262L	Molecular Biology with Lab	
BIOL 402	Processes of Organic Evolution	
	Principles of Chemistry with Lab	
CHEM 108/108L	Principles of Chemistry and Quantitative	
	Analysis with Lab	
	Organic Chemistry I with Lab	
MATH 180	Precalculus (CCM)*	
MATH 208	Biostatistics OR	
ENVS 202	Data Analysis for Scientists	
*Student proficient at the precalculus level should enroll in MATH219 Calculus 1 to satisfy the Gen. Ed. Domain Common Core Math Requirement.		
Ea. Domain Common Core Main Requirement.		

Biology Major Capstone:

BIOL460 Research Experience in Biology**

Additional Biology electives, Wildlife and Environmental Biology **Concentration:**

Requirements for the concentration in wildlife and environmental biology include courses in wildlife biology or environmental science, both animal and plant systems, ecology, and policy/communication. Upon graduation, students will have completed the majority of curriculum requirements for certification as a Wildlife Biologist by the Wildlife Society*. Graduates of this program are prepared for graduate studies or careers as wildlife biologists, wildlife managers, conservation biologists, environmental consultants, park rangers, and zookeepers.

Students must take an additional seven (7) electives: BIOL 344/344L Animal Physiological Ecology with Lab BIOL 248/248L Principles of Ecology with Lab BIOL 251/251L Vascular Plant Taxonomy with Lab BIOL 335/335L Principles of Wildlife Biology with Lab One (1) Course from Group A (attached) One (1) Course from Group B (attached) One (1) Course from Group D (attached)

*Note: Students interested in certification by The Wildlife Society should meet with the program advisor when choosing electives

Other courses that are not required but would be useful for students in this concentration include the following:

CHEM 300/300I	Principles of Biochemistry with Lab
EASC 118	Oceanography
	C 1 ,
GEOG 216	Introduction to Geographical Information Systems (GIS)
GEOG 235	Environmental Law and Policy
GEOG 240	Municipal Land Use
GEOG 375	Resource Management
PHYS 201/201L	Physics for Earth and Life Scientists with Lab
POSC 329	Public Policy Analysis
FREE ELECTIVES (Three (3) for Wildlife & Environmental Biology	
Concentration):	
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^{**}An original research project is required of all Biology Majors. Prior to enrollment in BIOL469 Research Experience in Biology, the student should meet with their academic advisor and with other Biology faculty to tailor the research project to the student's interests and career goals.

*For students who plan to pursue an advanced degree in Biology, the following courses are strongly recommended: CHEM 300/300L Principles of Biochemistry with Lab MATH219 Calculus I PHYS 201/201L Physics for Earth and Life Scientists with Lab or both PHYS211/211L Physics I with Lab AND PHYS 212/212L Physics II with lab

Group A: Cellular and Molecular Biology Electives

BIOL 228/228L Microbiology with Lab

BIOL 260/260L Cellular Biology with Lab

BIOL 356 Biology of Cancer

BIOL 381 Theories of Infectious Diseases

BIOL 400 Trends in Biotechnology

BIOL 426 Human Immunity

BIOL 432 Vertebrate Development

CHEM 300/300L Principles of Biochemistry with Lab **or** CHEM 301/301L Biochemistry I with Lab

Group B: Organismal Diversity Electives

BIOL 203 Plants and Society*

BIOL 212/212L Wildlife Specimen Preparation Techniques

BIOL 232/232L Invertebrate Zoology with Lab

BIOL 251/251L Vascular Plant Taxonomy with Lab

BIOL 320/320L Animal Behavior with Lab

BIOL 323 Biology and Conservation of Crocodiles

BIOL 236/236L Ornithology with Lab

Group C: Physiology Electives

BIOL 344/344L Animal Physiological Ecology* with Lab

BIOL 235/235L Principles of Human Physiology* with Lab

BIOL 241/241L Human Anatomy and Physiology I* with Lab

BIOL 242/242L Human Anatomy and Physiology II with Lab

BIOL 255/255L Plant Physiology with Lab

BIOL 269 Sex, Brains, and Hormones

HLTH 302 Exercise Physiology

NEUR 225 Biopsychology

NEUR 380 Neuropharmacology

* Only one of these courses may be taken in order to receive biology credit.

Group D: Ecological and Evolutionary Biology Electives

BIOL 233/233L Comparative Vertebrate Anatomy with Lab

BIOL 248/248L Principles of Ecology with Lab

BIOL 291 Principles of Tropical Ecology and Conservation: Field Study

BIOL 321/321L Limnology with Lab

BIOL 335/335L Principles of Wildlife Biology with Lab

BIOL 341/341L Marine Biology with Lab

BIOL 393 Wildlife Management and Conservation Topics

Group E: Advanced Biology Electives

BIOL 490 Independent Study in Biology

BIOL 495 Internship in Biology

^{*} This course may not be used as a required plant course.