

# BIOLOGY MAJOR

## Wildlife and Environmental Biology Concentration

This worksheet is a guide to supplement your degree audit in Degree Works. All students need 32 FSU course-credits to graduate. For students who change majors or enter FSU with transfer credits your degree audit may appear differently, as previous coursework could fulfill Domains and Free Electives. Please see your Advisor and/or The Advising Center with any questions.

### **DOMAIN GENERAL EDUCATION (11 Courses Required):**

The FSU General Education program consists of 11 requirements. In the Biology major Domain II-B is satisfied through completion of the major (X). One (1) additional subdomain is met by a specific course in the major (see below), leaving ***nine (9) 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. Please refer to the catalog (p. 256) for full information.

#### **Common Core**

- \_\_\_\_\_ A. ENWR 110 Composition II  
 \_\_\_\_\_ B. MATH/STAT XXX (credit-bearing): MATH 180\*

#### **Domain I**

- \_\_\_\_\_ A. Creative Arts: \_\_\_\_\_  
 \_\_\_\_\_ B. Humanities: \_\_\_\_\_  
 \_\_\_\_\_ C. Language: \_\_\_\_\_

#### **Domain II**

- \_\_\_\_\_ A. Analysis, Modeling, Problem-Solving  
 \_\_\_\_\_ B. Natural Sciences (2): Non-Lab Science: \_\_\_\_\_  
 \_\_\_\_\_ X \_\_\_\_\_ Lab Science

#### **Domain III**

- \_\_\_\_\_ A. Perspectives on the Past: \_\_\_\_\_  
 \_\_\_\_\_ B. Perspectives on Contemporary World: \_\_\_\_\_  
 \_\_\_\_\_ C. Global Competency, Ethical Reasoning,  
 and/or Human Diversity: \_\_\_\_\_

X = Fulfilled through completion of major  
 \* = Required course in the major

### **MAJOR COURSES (19):**

#### **Required Core Courses (11):**

_____	BIOL 125	The Biology Experience
_____	BIOL 135/135L	Foundations of Biological Science with Lab
_____	BIOL 208/208L	Genetics with Lab
_____	BIOL 230	Professional Communication in Biology
_____	BIOL 262/262L	Molecular Biology with Lab
_____	BIOL 402	Processes of Organic Evolution
_____	CHEM 107/107L	Principles of Chemistry with Lab
_____	CHEM 108/108L	Principles of Chemistry and Quantitative Analysis with Lab
_____	CHEM 207/207L	Organic Chemistry I with Lab
_____	MATH 180	Precalculus* (CC-B) **
_____	STAT 208	Biostatistics
_____	<b><u>or</u></b> ENVS 202	Data Analysis for Scientists

*\*Students proficient at the precalculus level should enroll in MATH219 Calculus 1 to satisfy the Gen. Ed. Domain Common Core Math Requirement.*

*\*\* Fulfills a General Education requirement.*

#### **Required Capstone Course (1):**

_____	BIOL 460	Research Experience in Biology**
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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.*

#### **Wildlife and Environmental Biology Concentration (7):**

_____	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 (see below)**

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#### **One (1) Course from Group B (see below)**

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## Wildlife and Environmental Biology Concentration

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**One (1) Course from Group D (see below)**

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

**Recommended courses – not required but would be useful for students in this concentration include the following:**

CHEM 300/300L	Principles of Biochemistry with Lab
EASC 118	Oceanography
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 (1-4): May be used toward the recommended courses above**

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**Group A: Cellular and Molecular Biology Electives**

BIOL 218/218L	Introduction to Bioinformatics with Lab
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
<u>or</u> 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 236/236L	Ornithology with Lab
BIOL 251/251L	Vascular Plant Taxonomy with Lab
BIOL 320/320L	Animal Behavior with Lab
BIOL 323	Biology and Conservation of Crocodiles

\* This course may not be used as a required plant course.

**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