

# BIOLOGY MAJOR

## Teaching Program with Minor in Secondary Education

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). Three (3) additional subdomains are met by specific courses in the major (see below), leaving ***seven (7) 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: PSYC 200\*  
 \_\_\_\_\_ C. Global Competency, Ethical Reasoning,  
 and/or Human Diversity: EDUC 246\*

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

### **MAJOR COURSES (16 or 17):**

#### **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
_____	<u>or</u> 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.*

#### **Secondary Education Teaching Program Concentration (4 or 5):**

#### **Required Courses (3 or 4):**

_____	BIOL 235/235L	Principles of Human Biology with Lab
_____	<u>or</u> BIOL 241/241L	Human Anat. & Physiology I with Lab <b>AND</b>
_____	BIOL 242/242L	Human Anat. & Physiology II with Lab
_____	BIOL 248/248L	Principles of Ecology with Lab
_____	PHYS 201/201L	Phys. for Earth and Life Scientists with Lab

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*Continued from previous page*

**One (1) of the following courses relating to plants:**

_____	BIOL 203	Plants and Society
_____	BIOL 251/251L	Vascular Plant Taxonomy with Lab
_____	BIOL 255/255L	Plant Physiology with Lab

**Recommended Courses:**

BIOL 228/228L Microbiology with Lab  
GEOL 108/108L Physical Geology with Lab

**MINOR IN SECONDARY EDUCATION (7 courses, 9 course-credits):**

**Teacher of Science: Biology Grades 8-12**

_____	EDUC 200	Foundations of Secondary Education with Pre-Practicum I
_____	EDUC 246	Sheltered English Immersion in Secondary Education (III-C) **
_____	EDIL 302	Secondary Methods with Field Study II: Special Needs and Educational Technology
_____	EDIL 325	Secondary Methods with Field Study II: Science 8-12
_____	EDPS 425A	Secondary Professional Practicum A: Science 8-12 (2 course-credits)
_____	EDPS 425B	Secondary Professional Practicum B: Science 8-12 (2 course-credits)
_____	PSYC 200	Psychology of Development (III-B)**

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

**FREE ELECTIVES (0):**

*All Free Electives in this major are used to complete the Secondary Education minor.*