BIOLOGY MAJOR

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)  
X

Domain III:  
A. Perspectives on the Past
B. Perspectives on Contemp. World

BIOLOGY MAJOR AND RELATED COURSES:

Required Major Related Core Courses (12):
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 Genetics with Lab
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 (CCM)*
MATH 208 Biostatistics  
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.

Biology Major Capstone:
BIOL 460 Research Experience in Biology**

**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.

Additional Biology electives, General Biology Concentration:
Students must take an additional six (6) courses (one of these courses must focus on plants and one on animals):

One (1) Course from 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 1 with Lab

One (1) Course from 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

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

One (1) from the Following Group of Courses:
BIOL 344/344L Animal Physiological Ecology* w/Lab
BIOL 235/235L Principles of Human Physiology* w/Lab
BIOL 242/242L Human Anatomy and Physiology II* w/Lab
BIOL 255/255L Plant Physiology w/Lab

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

One (1) from 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

Two (2) additional Courses from Group A-E*

* Group E: Advanced Biology Electives
BIOL 490 Independent Study in Biology
BIOL 495 Internship in Biology

FREE ELECTIVES (4):

*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

2022-2023