

## Environmental Biology (13.5 units)

### 8.5 units of Biology

1 unit of Introductory Biology chosen from

\_\_\_\_\_ **BIOL 110**: Human Biology, **BIOL 111**: Zoology, **BIOL 121**: Botany, **BIOL 141**: Microbiology  
 \_\_\_\_\_ **BIOL 151**: Marine Biology, **BIOL 161**: Aquatic Biology

4 core courses

\_\_\_\_\_ **BIOL 217**: Evolution  
 \_\_\_\_\_ **BIOL 247**: Biometrics  
 \_\_\_\_\_ **BIOL 289**: Genetics  
 \_\_\_\_\_ **BIOL 385**: Biology Capstone: Advanced Topics or **BIOL 387**: Biology Capstone: Senior Manuscript

2 units of Ecology, Evolution, and Behavioral Biology, at least 1 unit of BIOL at the 300 level, chosen from

\_\_\_\_\_ **BIOL 206**: Environmental Biology, **BIOL 210**: Paleobiology<sup>1</sup>, **BIOL 274**: Topics in Ecology, Evolution, and Behavioral Biology, **BIOL 337**: Population Biology, **BIOL 343**: Animal Behavior, **BIOL 372**: Ecology, **BIOL 374**: Advanced Topics in Ecology, Evolution, and Behavioral Biology, **BIOL 385**: Biology Capstone: Advanced Topics<sup>2</sup>

2 units of Molecular, Cellular, and Integrative Biology chosen from

\_\_\_\_\_ **BIOL 215**: Emerging Diseases, **BIOL 237**: Cell Biology, **BIOL 256**: Anatomy, **BIOL 260**: Nutrition and Metabolism: Biochemical Mechanisms<sup>3</sup>, **BIOL 273**: Topics in Molecular, Cellular, and Integrative Biology, **BIOL 300**: DNA and Protein Biochemistry<sup>4</sup>, **BIOL 340**: Neuroscience, **BIOL 345**: Molecular Biology, **BIOL 357**: Human Physiology, **BIOL 373**: Advanced Topics in Molecular, Cellular, and Integrative Biology, **BIOL 385**: Biology Capstone: Advanced Topics<sup>2</sup>

### 5 units of Chemistry, Mathematics, and Geology

2 units of Chemistry<sup>5</sup>

\_\_\_\_\_ 1 unit chosen from **CHEM 117**: Chemistry, **CHEM 150**: Nanochemistry  
 \_\_\_\_\_ 1 unit chosen from **CHEM 220**: Environmental, Analytical and Geochemistry, **CHEM 230**: Organic Chemistry I, **CHEM 235**: Organic Chemistry II

1 unit of Mathematics chosen from

\_\_\_\_\_ **MATH 104**: Finite Mathematics, **MATH 110**: Calculus I, **MATH 113**: Calculus as Applied Mathematics

2 units of Geology chosen from

\_\_\_\_\_ 1 unit chosen from **GEOL 100**: Earth: Exploring a Dynamic Planet, **GEOL 110**: Environmental Geology and Geologic Hazards  
 \_\_\_\_\_ 1 unit chosen from **GEOL 235**: Surface Processes and Landforms, **GEOL 240**: Hydrogeology, **GEOL 251**: Advanced Topics in Geology<sup>6</sup>

<sup>1</sup> Must be taken as **BIOL 210**.

<sup>2</sup> With approval of advisor (topic must be appropriate). May not also fulfill capstone requirement.

<sup>3</sup> Must be taken as **BIOL 260**.

<sup>4</sup> Must be taken as **BIOL 300**.

<sup>5</sup> A student with a strong high school background in chemistry should consult with a member of the Chemistry Department about beginning coursework in **CHEM 150**, **220**, or **230**.

<sup>6</sup> With approval of advisor (topic must have an environmental focus).

Other: Students who wish to take **BIOL 206**: Environmental Biology should do so within their first 3 semesters. Students intending to apply to graduate school in biology should complete **MATH 110**, **115**; **CHEM 220**, **230**, **235**; **PHYS 101**, **102**. A course at a biological field station (e.g. Coe College Wilderness Field Station), international study, a research experience, or an internship is strongly recommended.

Other requirements:

Liberal arts in practice experience (research, internship, field course, or other activity plus reflection):

Expectations:

International experience:

Interdisciplinary, synthetic, connection experience (HEAL, ENVS, CRIS, IDST, etc.):