

## ENVIRONMENTAL SCIENCE

Minimum courses required: **15**

Students must complete an internship or independent research project. Internships must be approved by the one of the faculty coordinators, Professor Jani Benoit (Chemistry), Professor Scott Shumway (Biology) or Professor Geoffrey Collins (Physics) prior to January of the senior year.

Course requirement	Semester Taken
1. BIO 111: Evolution and Ecology	_____
2. BIO 112: Cells and Genes	_____
3. BIO 201: Environmental Science	_____
4. BIO 215: Ecology	_____
5. CHEM 153: Chemical Principles	_____
6. CHEM 154: Inorganic Reactions	_____
7. CHEM 253: Organic Chemistry I	_____
8. CHEM 303: Current Problems in Environmental Chemistry	_____
<b>ONE</b> course from: MATH 104: Calculus I, MATH 151: Accelerated Statistics or Math 141: Introductory Statistics	
9. _____	_____
10. PHYS 160: Geology	_____
11. <b>Capstone</b>	_____

**FOUR** courses from the following courses, to include at least **TWO** 300-level courses, **ONE** of which must be from Biology:

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|---|--|
| BIO 211: Genetics                               | BIO 364: Freshwater and Marine Botany      |
| BIO 221: Microbiology and Immunology            | BIO 375: Ornithology                       |
| BIO 226 or PSY 226: Comparative Animal Behavior | CHEM 254: Organic Chemistry II             |
| BIO 231: Marine Biology                         | CHEM 298: Chemistry of Natural Waters      |
| BIO 252: Parasitology and Symbiosis             | CHEM 331: Analytical Chemistry I           |
| BIO 262: Plant Biology                          | CHEM 332: Analytical Chemistry II          |
| BIO 303: Evolution                              | PHYS 198: Climate Change: Past and Present |
| BIO 317: Molecular Ecology and Evolution        | PHYS 227: Remote Sensing                   |
| BIO 318: Tropical Field Biology                 | PHYS 298: Meteorology and Oceanography     |
| BIO 331: Advanced Marine Biology                | PHYS 298: Scientific Computing             |
| BIO 361: Vernal Pool Conservation Biology       |  |

**Through the Marine Studies Consortium**

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|--|---------------------------|
| BIO 290 Biology of Whales                        | BIO 390 Biology of Fishes |
| BIO 291 Introduction to Marine Mammals           | BIO 391 Wetlands          |
| BIO 380 Wetlands Ecology, Hydrology, Restoration |                           |

**Through Williams College-Mystic Seaport Maritime Studies Program**

- Marine Ecology (200 level)  
 Oceanography (200 level)

**Through Marine Biological Laboratory Semester in Environmental Science**

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|------------------------------------|---|
| Aquatic Ecosystems (300 level)     | Mathematical Modeling of Ecosystems (300 level) |
| Terrestrial Ecosystems (300 level) | Microbial Methods in Ecology (300 level)        |

12. _____	_____
13. _____	_____
14. _____	_____
15. _____	_____
<b>Internship</b>	_____