

# ENVIRONMENTAL SCIENCE: ENVIRONMENTAL BIOLOGY, AS

Program code: EBIO-AS

Location: Naugatuck Valley

## Program Description

The Environmental Biology AS program is intended for students interested in Environmental Biology, Ecology, or a related field. The environmental field is a broad-based area of study and is truly interdisciplinary in nature. The subjects of biology, chemistry and geology are interwoven to provide a full picture of our environment and humanity's impact upon this system. The degree provides students with a foundation in the basic sciences and highlights the field's interdisciplinary nature, with a focus on the life sciences.

The goal of the Environmental Biology program is to prepare students to transfer into a biological environmental science program at a four-year institution. The requirements for the Environmental Biology program allow students to transfer seamlessly to most four-year colleges and to successfully complete their bachelor's degree in Environmental Biology, Ecology, or a related field without loss of credit or time.

## Learning Outcomes

Upon successful completion of all program requirements, graduates will be able to:

1. Research and assess the accuracy of information from print, online and media sources and be able to distinguish between scientific fact and media sensationalism.
2. Apply the scientific method to environmental problems using both laboratory and field skills to gather, analyze and interpret scientific data.
3. Scientifically analyze and critically evaluate local/regional/global environmental problems in terms of ecological principles and development of sustainable solutions.
4. Demonstrate knowledge of the interdisciplinary nature of environmental science with the fundamental principles of biology, chemistry, geology, law and public policy.
5. Describe the relationship between biotic organisms and the abiotic factors within an ecosystem.
6. Demonstrate knowledge gained from scientific investigation by appropriate written, oral and mathematical means as these skills are vital to success as an environmental profession.
7. Examine environmental problems and issues as well as establish personal positions on such issues and problems collaboratively.

## Degree Requirements

| Code                                     | Title           | Credits |
|--|-----------------|---------|
| <b>General Education Courses</b>         |                 |         |
| ENG 1010                                 | Composition     | 3       |
| MATH 1600                                | College Algebra | 3       |
| Elective ARHX - Arts & Humanities Course |                 | 3-4     |

|  |                                       |              |
|--|---------------------------------------|--------------|
| ENV 1010   | Introduction to Environmental Science | 3            |
| Elective SBSX - Social / Behavioral Science Course (ECON elective recommended) |                                       | 3            |
| Elective ORAX - Oral Communication Course <sup>1</sup>                         |                                       | 3            |
| CCS 1001   | College and Career Success            | 3            |
| <b>Program Courses</b>   |                                       |              |
| CSA 1110   | Introduction to Software Applications | 3            |
| BIO 1210   | General Biology I                     | 4            |
| BIO 1220   | General Biology II                    | 4            |
| BIO 1750   | Introduction to Marine Science        | 3            |
| BIO 2350   | Microbiology                          | 4            |
| BIO 2700   | Ecology                               | 4            |
| CHEM 1210  | General Chemistry I                   | 4            |
| CHEM 1220  | General Chemistry II                  | 4            |
| ENV 1100   | Environmental Regulations             | 3            |
| GEOL 1200  | Introduction to Physical Geology      | 4            |
| MATH 1200  | Statistics I                          | 3            |
| <b>Total Credits</b>   |                                       | <b>61-62</b> |

<sup>1</sup> COMM 1301 Public Speaking recommended

Students may earn only one Associate degree in this parent discipline.

- Environmental Science: Environmental Science & Toxicology Certificate
- Environmental Science: Environmental Science and Toxicology, AS
- Environmental Science: Sustainability, AS