

# ENVIRONMENTAL SCIENCE (A.S.) +

The Environmental Science program is designed to prepare students for employment in areas of the environment or for transfer to a four-year institution of higher learning. In this multidisciplinary program, you will learn to relate underlying scientific theory to environmental considerations affecting our everyday lives. You will gain an understanding of environmental problems and obtain the knowledge and skills to begin developing solutions.

All associate degrees include completion of general education requirements which, together with program requirements, constitute a minimum of 60 credits. In some cases program requirements also fulfill general education requirements. You may not use a single course to meet two general education requirements.

Students in the Environmental Science degree program may choose to pursue the STEM Studies certificate while obtaining their degree

## General Education

Complete at least one course in each of the following:

- First Semester Seminar  
INT 1050 - Dimensions of Self & Society
- Introductory Written Expression – VSCS  
ENG 1061 - English Composition
- Digital and Computing Literacy – VSCS  
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- Mathematics - VSCS  
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- Natural Science - VSCS  
ENV 1010 - Introduction to Environmental Science
- Social Science - VSCS  
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- Arts & Aesthetics - VSCS  
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- Humanistic Perspectives - VSCS  
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- Communication  
Meets graduation standard in oral communication  
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- Research & Writing Intensive  
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- HUM 2010 - Seminar in Educational Inquiry  
Meets graduation standard in writing and information literacy
- Quantitative Reasoning Assessment  
Meets graduation standard in quantitative reasoning

*\*You may use a course to meet both a program requirement and a general education requirement; however, you may not use a single course to meet two general education requirements.*

## Program Requirements

Courses are listed in the order in which we recommend you take them. These courses meet both program and general education requirements.\*

- ENV 1010 - Introduction to Environmental Science \*
  - BIO 1211 - Introductory Biology: Ecology & Evolution
  - CHE 1020 - Introductory Chemistry  
or  
CHE 1031 - General Chemistry I
  - ENV 2175 - Natural and Cultural History of Vermont
  - ENV 2010 - Moving toward Sustainability
  - BIO 2340 - Fundamentals of Ecology
  - INT 2860 - Professional Field Experience
- Electives: 5 credits

**Minimum Total Credits in Degree: 60**

+ This program can be completed fully online.

## **Program Outcomes**

### **Graduates of the Environmental Science program will be able to:**

- examine the impact of humankind on the environment from scientific, sociological, political, and economic viewpoints both locally and globally;
- address real-world environmental issues by applying methods and concepts learned in the sciences, mathematics, and humanities;
- analyze scientific evidence regarding how human activities affect ecosystems;
- demonstrate academic skills required of all CCV graduates, including competency in writing, information literacy, oral communication, and quantitative reasoning; and
- explore pathways and demonstrate preparedness for educational and career development in the student's field of study.

### **The Environmental Science program is great for you if:**

- you are curious about natural and physical sciences;
- you have good math, science, reading, writing, and communication skills;
- you benefit from hands-on, field-based, and service learning course activities;
- you have a passion for participating in environmental inquiry and solutions; and
- you enjoy working in interdisciplinary teams.

### **Key information and advice for students in the Environmental Science program:**

- A core curriculum helps students develop key skills for applying biological, physical, and chemical principles to the study of the environment and the developing solutions to environmental problems.
- The required Professional Field Experience course at the end of the degree program gives students an opportunity to make connections with local environmental agencies and employers.
- Required courses for the Environmental Science degree are offered at CCV academic centers throughout the state and in online and hybrid formats. Students can choose to do all courses online.

### **The Environmental Science program prepares you for careers such as:**

- |   |                                    |
|---|------------------------------------|
| • Agriculture & Food Science Technician         | • Forest & Conservation Technician |
| • Environmental Engineering Technician          | • Water and Waste Water Operator   |
| • Environmental Science & Protection Technician | • Water Conservation Technician    |

For up-to-date Vermont labor market information, including salary information and growth projections, view the Economic and Labor Market Information on the Vermont Department of Labor Website <http://www.vtlmi.info/>.