Environmental Science AST

**Option 1: Biology sequence**

- Required:
  - BIOSC 170 Environmental Science (DVC GE II)
  - ECON 221 Principles of Macroeconomics (DVC GE IV)
  - MATH 142 Statistics (DVC GE Ct)
  - MATH 192 Analytic Geometry and Calculus I (DVC GE Ct)
  - CHEM 108 Chemistry for Non-Science Majors (DVC GE II)
  - CHEM 120 General Chemistry I* (IGETC SA, DVC GE II)
  - BIOSC 130 Principles of Cellular and Molecular Biology* (IGETC SA, DVC GE II)

- Plus 4 units from:
  - BIOSC 131 Principles of Ecology, Evolution and Organismal Biology (IGETC SA, DVC GE II)
  - PHYS 130 Physics for Engineers and Scientists A: Mechanics and Wave Motion
  - PHYS 120 General College Physics I
  - PHYS 121 General College Physics II

- Plus 8 units from:
  - GEOG 120 Physical Geography (DVC GE II)
  - PHYS 130 Physics for Engineers and Scientists A: Mechanics and Wave Motion
  - PHYS 230 Physics for Engineers and Scientists B: Heat and Electromagnetism

**Option 2: Chemistry sequence**

- Required:
  - BIOSC 130 Principles of Cellular and Molecular Biology* (IGETC SA, DVC GE II)
  - CHEM 121 General Chemistry II (DVC GE II)
  - CHEM 120 General Chemistry I (IGETC SA, DVC GE II)
  - CHEM 108 Chemistry for Non-Science Majors (IGETC SA, DVC GE II)

- Plus 4 units from:
  - CHEM 121 General Chemistry II (DVC GE II)
  - CHEM 120 General Chemistry I (IGETC SA, DVC GE II)
  - BIOSC 130 Principles of Cellular and Molecular Biology* (IGETC SA, DVC GE II)

**Total minimum units for the major:** 42

You need to see a Counselor for specific recommendations about courses that will best meet your educational goals. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details.

For information about transferring, see: [https://www.dvc.edu/enrollment/transfer/index.html](https://www.dvc.edu/enrollment/transfer/index.html)

For information on careers in this field see: [https://www.dvc.edu/enrollment/career-employment/index.html](https://www.dvc.edu/enrollment/career-employment/index.html)

**Program Learning Outcomes**

Students completing this program will be able to:

1. Recognize and understand chemical components in physical and biological aspects of ecosystems.
2. Apply the scientific method to collect data on environmental problems, and use data to analyze and solve quantitative and qualitative problems.
3. Evaluate the relationship of organisms to each other and to their changing chemical and physical environment.
4. Integrate environmental and economic issues.
5. Demonstrate the proper use of common laboratory equipment and use proper laboratory techniques in running experiments.

Careers in

- Transfer degree for CSU.