

# SCIENCE, MATH & ENGINEERING PATHWAY PROGRAM MAP: CATALOG YEAR: 2022-23

## *Environmental Science: Associate in Science for Transfer CSU*

The environment on which humans depend is under unprecedented pressure to maintain the lifestyles and economies of the world's population. Sustainable solutions to global problems have never been as imperative as they are today. The environmental studies program engages students in a rewarding and multidisciplinary approach to understanding how humans impact the environment.

**Please see a Pathways Counselor:** Create an education plan customized to meet your needs. [Contact a Counselor](#)

### **Transfer Majors/Award Focus**

- Environmental Sciences, A.S.-T CSU, UC
- Environmental Studies, A.S. CSU, UC

### **GE Pattern/Units**

- GE Pattern: Option B
- Total Units: 66



**Program maps** indicate the major coursework and recommended general education courses to fulfill your degree in 2 years (approximately 15 units/semester or 30 units/year). If you are a part-time student, start Semester 1 courses and follow the course sequence. Some of the courses listed may be substituted by another course. Please view these options in the official course [catalog](#).

### **Semester 1**

**16 Units**

| ✓                        | COURSE   | TITLE                            | UNIT |
|--------------------------|----------|----------------------------------|------|
| <input type="checkbox"/> | ENGL-101 | College Composition              | 4    |
| <input type="checkbox"/> | MATH-211 | Analytic Geometry and Calculus I | 4    |
| <input type="checkbox"/> | ENVS-101 | Environmental Science            | 3    |
| <input type="checkbox"/> | CHEM-101 | General Chemistry I              | 5    |

### **Semester 2**

**15 Units**

| ✓                        | COURSE   | TITLE                             | UNIT |
|--------------------------|----------|-----------------------------------|------|
| <input type="checkbox"/> | COMM-104 | Argumentation and Debate          | 3    |
| <input type="checkbox"/> | CHEM-102 | General Chemistry II              | 5    |
| <input type="checkbox"/> | COMM-100 | Public Speaking                   | 3    |
| <input type="checkbox"/> | MATH 212 | Analytic Geometry and Calculus II | 4    |

### **Career Options**

Environmental Compliance Inspector (B)  
Nursery and Greenhouse Manager (B)  
Environmental Engineer (B)  
Find more careers: [msjc.emsicc.com](https://msjc.emsicc.com)

Required Education: SM: some college; C: Certificate; A: Associate,  
B: Bachelor's, M: Master's; D: Doctorate

### **Financial Aid**



Financial aid is determined by the number of credit hours you take in a semester. Maximize your financial aid by taking 12-15 units per semester.

**Summer****6 Units**

| ✓                        | COURSE   | TITLE                             | UNIT |
|--------------------------|----------|-----------------------------------|------|
| <input type="checkbox"/> | MATH-140 | Introduction to Statistics        | 3    |
| <input type="checkbox"/> | DAN-100  | History and Appreciation of Dance | 3    |

**Semester 3****14 Units**

| ✓                        | COURSE                | TITLE  | UNIT |
|--------------------------|-----------------------|--|------|
| <input type="checkbox"/> | ECON-202              | Principles of Microeconomics   | 3    |
| <input type="checkbox"/> | BIOL-150              | General Biology I  | 4    |
| <input type="checkbox"/> | HIST-112 or<br>PS-101 | U.S. History Since 1865 or<br>Introduction to American Government and Politics | 3    |
| <input type="checkbox"/> | PHY-201               | Mechanics and Wave Motion  | 4    |

**Semester 4****15 Units**

| ✓                        | COURSE  | TITLE   | UNIT |
|--------------------------|---|---|------|
| <input type="checkbox"/> | GEOL-100  | Physical Geology  | 4    |
| <input type="checkbox"/> | PHY-202   | Electricity and Magnetism   | 4    |
| <input type="checkbox"/> | PS-103 or<br>HIST-160 or<br>LIT-275 or<br>LIT-280 | Ethnic Politics in America or<br>Black History in the American Context or<br>Latinx/Chicanx Literature or<br>Multiethnic Literature | 3    |
| <input type="checkbox"/> | SPAN-101 or<br>FREN-101 or<br>ASL-100             | Elementary Spanish I or<br>Elementary French I or<br>American Sign Language I   | 4    |

**Notes:**

**Recommended:** Students should take courses the summer before the Fall start of the semester.

**Language Requirement:** Some CSU's require the equivalency of an intermediate language proficiency for graduation. Please see a counselor for more detail regarding specific CSU major and graduation requirements.

**Work Experience**

Sign up for a special project or internship opportunity. Gain [work experience](#) and earn credits.

**Scheduling Notes**

Science and math courses can be challenging! But you don't have to do it alone! Take advantage of tutoring services provided by the college and create study groups with your peers!

**Helpful Hints**

There is only one environmental science course required in the major, but there are more to come when you transfer. Maintain your momentum and your interest by getting involved with other students in the environmental club!