

2022 - 2023

## Environmental Science Associate in Science Degree for Transfer

Complete the following program of study (#C.6000.AS-T)

Students will understand essential biological and physical processes, analyze human/environment interactions, understand different cultural perspectives on the environment, build critical thinking skills as the basis for decision making and sound value judgments, gain specialized analytical skills in at least one area of environmental science, build teamwork, leadership, conflict resolution skills, and develop effective communication skills.

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Course Overview and Selection

Required Core: Complete one of the TWO options listed below:

Option 1 -

Course	Course Description	Units	C-ID	Completed	In Progress	Planned
<b>BIOL 11A</b>	Biology for Science Majors I	5	BIOL 190			
<b>CHEM 1A and CHEM 1B</b>	General Chemistry and General Chemistry, Qualitative	5 5	CHEM 120s			

Or Option 2 -

Course	Course Description	Units	C-ID	Completed	In Progress	Planned
<b>BIOL 11A and BIOL 11B</b>	Biology for Science Majors I and Biology for Science Majors II	5	BIOL 135S			
<b>CHEM 1A</b>	General Chemistry	5	CHEM 110			

List A - Complete the following courses:

Course	Course Description	Units	C-ID	Completed	In Progress	Planned
<b>BIOL 13</b>	Environmental Science Lecture	3	ENVS 100			
<b>GEOL 1</b>	Physical Geography	4	GEOL 101			
<b>MATH 11 or STAT 7</b>	Elementary Statistics or Elementary Statistics	4	MATH 110			
<b>MATH 5A</b>	Math Analysis I	5	MATH 210			

List B - Complete the following courses:

Course	Course Description	Units	C-ID	Completed	In Progress	Planned
<b>ECON 1B</b>	Principles of Microeconomics	3	ECON 201			

Choose one sequence of Physics from below:

Course	Course Description	Units	C-ID	Completed	In Progress	Planned
<b>PHYS 2A and PHYS 2B</b>	General Physics I and General Physics II	4 4	PHYS 205 PHYS 210			
<b>PHYS 4A and PHYS 4B</b>	Physics for Scientist and Engineers and Physics for Scientist and Engineers	4 4	PHYS 100S			

**Total units for major does not include required general education or pre-requisite courses.**

### Program Learning Outcomes:

1. Investigate and describe specific evidence used to construct individual scientific principles.
2. Utilize scientific methodologies when solving a problem.
3. Demonstrate knowledge of how human activities impact the physical and biological environments.
4. Apply concepts, models, and quantitative techniques from mathematics, life sciences, and physical sciences to solve complex problems related to the natural world.
5. Analyze, interpret, and evaluate quantitative and qualitative evidence regarding the causes and consequences of human impacts on the environment.

### Statement of Program Goals and Objectives:

The Associate in Science in Environmental Science for Transfer Degree is an interdisciplinary and multidisciplinary course of study that presents an overview of ecological issues from a scientific perspective. With a broad foundation across the natural sciences, the coursework examines the interrelated nature of environmental and social systems. This program is designed to equip students with the skills and tools to successfully use the scientific method while studying and solving environmental problems.

The Associate in Science in Environmental Science for Transfer degree is designed to demonstrate the breadth of content and disciplines that underlie environmental science and prepare students for advanced courses and projects that they will be presented with in their bachelor degree program. The Associate in Science in Environmental Science for Transfer degree promotes an understanding of basic operational principles underlying the biosphere and ecosystem through a transdisciplinary approach to understanding interaction between the biological and physical world and human

To obtain the Environmental Science Associate in Science Degree for Transfer, students must complete the following requirements:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth requirements.
  - A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Obtainment of a minimum grade point average of 2.0. Associate Degrees for Transfer (ADTs) also require that students must earn a “C” grade or better in all courses required for the major or area of emphasis.

### Notes:

- Certification of either the California State University General Education Breadth (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC-CSU version) is required. CSU GE- Breadth and IGETC advising sheets are available in Student Services, AC2-133 or online at [CCC GE \(CSU/UC\) GE and Major Sheets](#)
- Courses may double count in the major and CSU GE-Breadth or IGETC.

To see what CSU campuses accept this degree go to [www.icangotocollege.com](http://www.icangotocollege.com).

### Comments: