

ENVIRONMENTAL SCIENCE, A.S.-T

An A.S.-T in Environmental Science for Transfer fulfills the requirements for transferring to a California State University as an Environmental Science major. The courses in the A.S.-T in Environmental Science for Transfer degree provide the requisite background in math and science that are necessary for pursuing a Bachelor's degree and career in Environmental Science.

AS.ENVS.OPTBAST or AS.ENVS.OPTCAST

Program Map

Design Your Future!

Begin by exploring MSJC program maps to find a career or transfer (<https://msjc.emsicc.com/?radius=®ion=All%20Regions>) opportunities. Program maps show the recommended sequence of courses that lead to graduation or transfer. The maps were developed by program experts to give you the skills and knowledge you need to succeed.

- **Starting in Spring?** Choose Fall Semester 1 courses.
- **Are you a part-time student?** Start Fall Semester 1 courses and follow the course sequence.

CSU: General Education Option B

Fall Semester 1		Units
ENGL-101	College Composition (formerly Freshman Composition)	4
MATH-211	Analytic Geometry and Calculus I	4
ENVS-101	Environmental Science	3
CHEM-101	General Chemistry I	5
Units		16
Spring Semester 1		
COMM-104	Argumentation and Debate (formerly Advocacy and Argument)	3
CHEM-102	General Chemistry II	5
COMM-100	Public Speaking	3
MATH-212	Analytic Geometry and Calculus II	4
Units		15
Summer 1		
MATH-140	Introduction to Statistics	3
DAN-100	History and Appreciation of Dance	3
Units		6
Fall Semester 2		
ECON-202	Principles of Microeconomics	3
BIOL-150	General Biology I	4
HIST-112 or PS-101	U.S. History Since 1865 or Introduction to American Government and Politics	3
PHY-201	Mechanics and Wave Motion	4
Units		14
Spring Semester 2		
GEOL-100	Physical Geology	4

PHY-202	Electricity and Magnetism	4
Select one of the following:		3
HIST-160	Black History in the American Context	
LIT-275	Latinx/Chicanx Literature	
LIT-280	Multiethnic Literature (formerly ENGL-280)	
PS-103	Ethnic Politics in America	
Select One		
SPAN-101 or FREN-101 or ASL-100	Elementary Spanish I or Elementary French I or American Sign Language I	4
Units		15
Total Units		66

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.

UC: General Education Option C

Fall Semester 1		Units
ENGL-101	College Composition (formerly Freshman Composition)	4
MATH-211	Analytic Geometry and Calculus I	4
ENVS-101	Environmental Science	3
CHEM-101	General Chemistry I	5
Units		16
Spring Semester 1		
ENGL-103	Critical Thinking and Writing	3
CHEM-102	General Chemistry II	5
PS-101	Introduction to American Government and Politics	3
MATH-212	Analytic Geometry and Calculus II	4
Units		15
Summer 1		
MATH-140	Introduction to Statistics	3
Units		3
Fall Semester 2		
GEOL-100	Physical Geology	4
BIOL-150	General Biology I	4
HIST-111 or HIST-112	U.S. History to 1877 or U.S. History Since 1865	3
PHY-201	Mechanics and Wave Motion	4
Units		15
Spring Semester 2		
Select One		
SPAN-101 or FREN-101 or ASL-100	Elementary Spanish I or Elementary French I or American Sign Language I	4
PHY-202	Electricity and Magnetism	4
PHIL-101	Introduction to Philosophy I	3
DAN-100	History and Appreciation of Dance	3

COMM-100	Public Speaking	3
	Units	17
	Total Units	66

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

NOTE: For students who did not meet the LOTE requirement in high school, they may fulfill Area 6 by demonstrating proficiency by completing ASL-100 American Sign Language I, FREN-101 Elementary French I or SPAN-101 Elementary Spanish I with a grade C or better. Languages other than English for Native Speakers are also acceptable for meeting this requirement.

UC Assist Note: No credit for ENVS-100/ENVS-100H if taken after ENVS-101/ENVS-101H.

Requirements

Course	Title	Credits
Required Core Courses		
Select one of two options:		
Option 1		
BIOL-150 or BIOL-150H	General Biology I Honors General Biology I	4
BIOL-151 or BIOL-151H	General Biology II Honors General Biology II	4
CHEM-101	General Chemistry I	5
Option 2		
BIOL-150 or BIOL-150H	General Biology I Honors General Biology I	4
CHEM-101	General Chemistry I	5
CHEM-102	General Chemistry II	5
List A		
Select from the following:		13-14
ENVS-101 or ENVS-101H	Environmental Science Honors Environmental Science	
GEOL-100 or GEOG-101	Physical Geology Physical Geography	
GEOG-104	Physical Geography Lab	
MATH-140	Introduction to Statistics	
MATH-211 or MATH-135	Analytic Geometry and Calculus I Calculus for Social Science and Business	
List B: Select two or three		
Select two or three of the following:		7-11
ECON-202 or ECON-202H	Principles of Microeconomics Honors Principles of Microeconomics	
PHY-201	Mechanics and Wave Motion	
PHY-202 or PHY-202H	Electricity and Magnetism Honors Electricity and Magnetism	
Total Units		37-39

Total Units for A.S.-T Degree: 60 units

Course	Title	Credits
Units for Major		37-39
CSU General Education for STEM or IGETC for STEM		31-33
Possible double counting: 12 (CSU GE) /15 (IGETC GE)		
Transferable Electives (as need to reach 60 CSU transferable units)		

The STEM General Education for a **STEM Associates Degree for Transfer (ADT)** can only be applied to the **Biology, Chemistry and Environmental Science ADT Degrees**.

The overall requirements for an approved STEM Associates Degree for Transfer (ADT) can be met by:

- Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University.
- Completion of California State University General Education Breadth for STEM (CSUGE) requirements or the Intersegmental General Education Transfer Curriculum for STEM requirements (IGETC).
 - **CSUGE Breadth for STEM (33 units):** Students are to complete all CSUGE requirements. However, the CSUGE for STEM requires 6 semester units/9 quarter units from AREA C by selecting one course from C1 and one course from C2; 3 semester units/ 4 quarter units from AREA D by selecting one course; and 3 semester units/ 4 quarter units from AREA F by selecting one course.
 - **IGETC for STEM (31 units):** Students are to complete all IGETC requirements. However, the IGETC for STEM requires 6 semester units/9 quarter units from AREA 3 by selecting one course from 3A and one course from 3B. Students are also to complete 6 semester units/9 quarter units from AREA 4 by selecting two courses from two different disciplines.
- Students are to confirm that the CSU or UC major/program or college they are applying to accepts partial CSUGE and IGETC certification. Although CSUGE and IGETC for STEM is an option, it is important that students prioritize completing major-preparation courses for the specific campuses and programs students are considering.
- Completion of a minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- Completion of a minimum grade point average of 2.0.

ADTs also require that students earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is acceptable if pass is defined as a grade of C or better. ADTs are intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. A student completing an ADT is guaranteed admission to the CSU system, but not a particular campus or major. Students should meet with a Counselor to develop a comprehensive educational plan to further understand university and transfer requirements.

Career Exploration

Discover information about careers that interest you!

1. Take a Career Quiz (<https://msjc.emsicc.com/assessment/>) to learn about yourself and receive career suggestions based on your interests.
2. Search available in-demand jobs (<https://msjc.emsicc.com/browse-careers/>) in your career areas of interest and find up-to-date salaries and education requirements.

3. Find the MSJC Program (<https://msjc.emsicc.com/browse-programs/>) that connects your interests to a career.

Note: There are no guaranteed positions for students completing these programs. Education and work experience required will vary by employer. The salary and benefits for specific occupations will be dependent on work experience, education, background, and employer.