

ENVIRONMENTAL SCIENCE - ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science for Transfer (AS-T) degree in Environmental Science provides students with a broad interdisciplinary foundation in physical and life sciences, economics, and mathematics in preparation for transfer to a four year-year institution. Students will develop knowledge of ecological principles, earth science concepts, and social and cultural institutions that shape the human-environment relationship and its effect on human being's longevity and health. The AS-T degree is designed to prepare students to research, analyze, and propose solutions to the myriad environmental challenges facing the world today through a well-rounded curriculum combining classroom, laboratory, and field study instruction.

Successful completion of the AS-T degree in Environmental Science satisfies lower division requirements and guarantees admission to the California State University (CSU) system (though not to a particular campus or major). The study of Environmental Science can lead to employment in a wide variety of field in both the public and private sector, such as environmental consulting, environmental education, urban and regional planning, sustainable landscaping, recycling and waste management, renewable energy, hydrology, and ecology.

Program Learning Outcomes

- Apply scientific method to form and test hypotheses and draw valid conclusions from data collected.
- Demonstrate a coherent understanding of environmental issues, their underlying causes and potential solutions from an interdisciplinary perspective.
- Assess threats to the environment and human health resulting from air, water, and land pollution, describe waste-management strategies and communicate the role of renewable energy in establishing and fostering sustainable society and promote equity.
- Analyze the impacts of conventional and sustainable and food production of the environment and human health.
- Appraise issues such as continued human population growth, global climate change and appropriate responses to these challenges in education, laws, and social policies and practices.

Program Requirements

Course	Title	Credits
Required Core		
BIOL 004A	General Principles and Cell Biology	5
CHEM 001A	General Chemistry or CHEM 001AHonors General Chemistry	5
CHEM 001B	General Chemistry	5
List A		
ENVIR 010	Environmental Science	4
GEOL 010	Physical Geology	3
GEOL 010L	Physical Geology Laboratory	1
MATH 062	Calculus for Business and the Social Sciences	3
MATH 063	Elementary Statistics	3

List B

ECON 010B	Introduction to Microeconomic Theory	3
PHYS 002A	Algebra/Trigonometry-Based Physics I	4
PHYS 002B	Algebra/Trigonometry-Based Physics II	4
General Education		31-33
CSU GE for STEM		33
IGETC for STEM		31
CSU Transferable Electives		0-2
Total Units		60
As necessary to reach 60 units required for the AS-T degree in Environmental Science		