Environmental Studies

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Degree(s)

Transfer:
A.S. in Environmental Studies 16765 AS.ENVS.OPTB or AS.ENVS.OPTC
(with Transfer Emphasis using General Education Requirements Option B or C)

See Also:
A.A. in Liberal Arts - Mathematics & Science Emphasis

Non-Transfer:
None

See:
A.S. in Science
A.S. in Horticulture/ Turf & Landscape Management
A.S. in Water Technology

Certificate(s)
None

Employment Concentration Certificate(s)
None

Program Description

The Environmental Studies transfer and non-transfer programs draw on a multi-disciplinary curriculum that emphasizes the impact of human civilizations on environmental systems. The disciplines represented draw from the physical, life and social sciences as well as the humanities. Environmental science is largely issues-based and relies heavily on the critical thinking skills necessary to understand contemporary issues and propose meaningful solutions to complex problems. Successful completion of the degree requirements entails a broad scientific background, which provides a foundation for continued academic and career success.

Career Opportunities

For any BA/BS careers, please see your transfer institution.

Transfer Preparation

MSJC offers a range of course work to prepare students to transfer to four-year colleges and universities. All four-year institutions prescribe their own standards for course evaluation and admissions. Prospective transfer students are advised to research careers, degrees and majors in the Career/Transfer Center, access www.assist.org, review the MSJC catalog and meet with a counselor to expedite their transfer plan.

Learning Outcomes

- Explain how scientific knowledge is obtained and verified.
- Evaluate the cycling of matter and the flow of energy in environmental systems.
- Achieve basic environmental literacy.
- Think critically about the environmental issues by drawing on an understanding of scientific principles.
- Explore the ethical and social considerations inherent in environmental science.
- Apply the most current environmental discoveries and regulations to contemporary situations.

Degree

An Associate in Science (A.S.), degree in Environmental Studies prepares students for transfer to four-year colleges offering a Bachelor of Science (BS) in Environmental Studies or related fields. The major requirements for an A.S. in Environmental Studies can be met by completing the pattern described plus all MSJC General Education Option B (CSU-GE breadth) and/or Option C (IGETC) requirements.

MSJC Core Requirements (17 units)

CHEM-101	General Chemistry I	5 units
CHEM-102	General Chemistry II	5 units
ENVS-101	Environmental Science	3 units
or		
ENVS-101H	Honors Environmental Science	3 units
MATH-110	Pre-Calculus (or higher)	4 units

Elective Courses (12 units)

ANTH-101	Physical Anthropology	3 units
or		
ANTH-101H	Honors Physical Anthropology	3 units
ANTH-102	Cultural Anthropology	3 units
or		
ANTH-102H	Honors Cultural Anthropology	3 units
BIOL-116	Natural History and Biodiversity of California	4 units
BIOL-117	Conservation Biology	3 units
BIOL-130	Marine Biology	4 units
BIOL-140	Ecology	4 units

BIOL-144	Plant Biology	4 units
or		
BIOL-144H	Honors Plant Biology	4 units
BIOL-146	Biodiversity	3 units
BIOL-150	General Biology I	4 units
or		
BIOL-150H	Honors General Biology I	4 units
BIOL-151	General Biology II	4 units
or		
BIOL-151H	Honors General Biology II	4 units
BIOL-201	Biostatistics	3 units
CHEM-112	Organic Chemistry I	5 units
CHEM-113	Organic Chemistry II	5 units
ECON-201	Principles of Macroeconomics	3 units
or		
ECON-201H	Honors Principles of Macroeconomics	3 units
ECON-202	Principles of Microeconomics	3 units
or		
ECON-202H	Honors Principles of Microeconomics	3 units
ECON-203	Introduction to Environmental Economics	3 units
ENVS-100	Humans and Scientific Inquiry	3 units
ENVS-102	Environmental Science Laboratory	1 unit
or		
ENVS-102H	Honors Environmental Science Laboratory	1 unit
ENVS-110	Natural Resources	4 units
ENVS-190	Watershed Resource Management	4 units
GEOG-101	Physical Geography	3 units
GEOG-102	Cultural Geography	3 units
GEOG-104	Physical Geography Lab	1 unit
GEOG-105	Map Interpretation and Spatial Analysis	3 units
GEOG-115	Introduction to Geographic Information Science	3 units
GEOG-120	Intermediate Geographic Information Science	3 units
GEOL-100	Physical Geology	4 units
GEOL-110	Oceanography	4 units
MATH-135	Calculus for Social Science and Business	3 units
MATH-140	Introduction to Statistics	3 units
PHIL-105	Introduction to Ethics	3 units
PHY-201	Mechanics and Wave Motion	4 units
PHY-202	Electricity and Magnetism	4 units
or		
PHY-202H	Honors Electricity and Magnetism	4 units
PS-101	Introduction to American Government and Politics	3 units
or		
PS-101H	Honors Introduction to American Government and Politics	3 units
PS-102	Comparative Politics and Government	3 units
or		
PS-102H	Honors Comparative Politics and Government	3 units
SOCI-101	Principles of Sociology	3 units
or		
SOCI-101H	Honors Principles of Sociology	3 units

Water and Soil Technologies & Environmental Engineering Emphasis

This emphasis is not intended to transfer. It is geared towards students intending to pursue careers in industrial environmental consulting, water or soil quality analysis, environmental engineering, or agricultural, fire, or wastewater technology fields. Emphasis is placed on obtaining hands-on training for students at wastewater treatment plants, water quality analysis industries, and turf management companies.

Water and Soil Technologies & Environmental Engineering Emphasis Major Electives

ANTH-102	Cultural Anthropology	3 units
or		
ANTH-102H	Honors Cultural Anthropology	3 units
BIOL-115	Topics in Biology	4 units
or		
BIOL-115H	Honors Topics in Biology	4 units
BIOL-125	Microbiology	5 units
or		
BIOL-125H	Honors Microbiology	5 units
ECON-203	Introduction to Environmental Economics	3 units
ENGR-154	Computer Aided Drafting I	3 units
ENGR-164	Plane Surveying I	4 units
ENVS-190	Watershed Resource Management	4 units
GEOG-101	Physical Geography	3 units
GEOG-102	Cultural Geography	3 units
GEOG-104	Physical Geography Lab	1 unit
GEOG-115	Introduction to Geographic Information Science	3 units
GEOL-100	Physical Geology	4 units
GEOL-103	Environmental Geology	3 units
GEOL-105	Historical Geology	4 units
GEOL-109	Geology of National Parks	3 units
GEOL-110	Oceanography	4 units
HORT-101	Horticulture Science	3 units
HORT-106	Pesticide Law & Regulations-Turf & Landscape	3 units
HORT-107	Arboriculture	3 units
MATH-140	Introduction to Statistics	3 units
MATH-215	Differential Equations	4 units
PHIL-103	Logic	3 units
or		
PHIL-103H	Honors Logic	3 units
PHIL-104	World Religions	3 units
PHIL-105	Introduction to Ethics	3 units
PS-102	Comparative Politics and Government	3 units
or		
PS-102H	Honors Comparative Politics and Government	3 units

SOCI-101	Principles of Sociology	3 units
or		
SOCI-101H	Honors Principles of Sociology	3 units
WATR-100	Introduction to Water/Wastewater Operations	1 unit
WATR-103	Water Treatment Plant Operations I & II	3 units
WATR-105	Water Treatment Plant Operations III, IV, & V	3 units
WATR-120	Wastewater Treatment Plant Operations I & II	3 units
WATR-122	Wastewater Plant Operations III, IV, & V	3 units
WATR-125	Test Procedures for Water and Wastewater	3 units
WATR-130	Environmental Laws and Regulations	3 units

Note: Every effort has been made to keep program information current.
Please use this information as a guide and consult with the chair of the department/program or an MSJC counselor.