BS IN ENVIRONMENTAL STUDIES

Units required for Major: 67-69
Total units required for BS: 120

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Minimum Grade Requirement

A minimum grade of "C-" is required in all courses required for the Environmental Studies B.A. and B.S. majors.

Program Requirements

Code	Title	Units
Required Lower Division Courses (24 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
or BIO 10	Basic Biological Concepts	
& BIO 15L	Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I [1]	5
or CHEM 6A	Introduction to General Chemistry	
ECON 1B	Introduction to Microeconomic Analysis [1]	3
ENVS 10	Introduction to Environmental Science	3
GEOG 1	Physical Geography: The Distribution of Natural Phenomena [1]	3
or GEOL 10	Physical Geology	
Required Upper Division Courses (21 Units)		
BIO 160	General Ecology	3
ENVS 111	Environmental Ethics	3
ENVS 112	International Environmental Problems [1]	3
ENVS 120	Quantitative Methods for Environmental Science	3
ENVS 121	Field Methods in Environmental Science	2
ENVS 187	Environmental Studies Seminar	1
ENVS 190	Senior Thesis	3
ENVS 195	Environmental Studies Internship	3
Policy Electives (3 Units)		
Select one of the following courses:		3
ENVS 122	Environmental Impact Analysis: CEQA and NEPA	
ENVS/POLS 128	Environment and the Law	
ENVS/POLS 171	Environmental Politics and Policy	
Environmental Science Electives (9 Units)		
Select three of the following courses:		9
ENVS 110	Contemporary Environmental Issues	
ENVS 130	Environmental Toxicology	
ENVS 135	California Water and Society	
ENVS 137	Conservation and Society	
ENVS 144	Sustainability Science & Policy	
ENVS 140	Energy, Society, and the Environment	
ENVS 147	Urban Agriculture and Aquaponics	
ENVS 149	Agroecology	
ENVS 151	Restoration Ecology	
ENVS 158	Wetlands Ecology	
Interdisciplinary Electives (9 Units)		
Select three of the following courses:		9
BIO 103	Plants and Civilization	
BIO 112	Plant Taxonomy	
BIO 118	Natural Resource Conservation	
BIO 157	General Entomology	
BIO 162	Ichthyology: The Study of Fishes	
BIO 164	Amphibians and Reptiles: An Introduction to Herpetology	
BIO 166	Ornithology	
BIO 168	Mammalogy	
BIO 169	Animal Behavior	
BIO 173	Principles of Fisheries Biology	
BIO 179	Conservation Biology & Wildlife Management	
ENVS/SOC 138	Introduction to Environmental Sociology	
ENVS 163	Ethnoecology	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 118	Earth Transformed	
GEOG 161	California's Water Resources	
GEOL 127	Hydrogeology	
GEOL 130	Oceanography	
GEOL 140	Geology and the Environment	
HIST 139A	Global Environmental History in the Age of Imperialism, 1450-Present Day	
HIST 165	American Environmental History	
RPTA 153	Environmental Interpretation	
Other Courses (require instructor permission) (1-3 Units)		
ENVS 199	Special Problems	1 - 3
Total Units		**67-69**

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (3 Units)		
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Area F: Ethnic Studies		
Area F Course		
Total Units		**30**

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (http://catalog.csus.edu/colleges/academic-affairs/general-education/). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (http://catalog.csus.edu/colleges/academic-affairs/general-education/). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)