

BS IN ENVIRONMENTAL STUDIES



SACRAMENTO STATE
Redefine the Possible

In Workflow

1. ENVS Committee Chair (wayne.linklater@csus.edu)
2. ENVS Chair (wayne.linklater@csus.edu)
3. SSIS College Committee Chair (tristan.josephson@csus.edu)
4. SSIS Dean (mendriga@csus.edu)
5. Academic Services (torsetj@csus.edu; cnewsome@skymail.csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (james.german@csus.edu; celena.showers@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (torsetj@csus.edu)
10. Registrar's Office (w lindsey@csus.edu)
11. OIREP (pillais@csus.edu)

Approval Path

1. Wed, 18 Aug 2021 19:24:51 GMT
Wayne Linklater (wayne.linklater): Approved for ENVS Committee Chair
2. Wed, 18 Aug 2021 19:25:16 GMT
Wayne Linklater (wayne.linklater): Approved for ENVS Chair
3. Sat, 04 Sep 2021 01:00:36 GMT
Tristan Josephson (tristan.josephson): Rollback to Initiator
4. Thu, 09 Sep 2021 20:34:03 GMT
Wayne Linklater (wayne.linklater): Approved for ENVS Committee Chair
5. Thu, 09 Sep 2021 20:34:27 GMT
Wayne Linklater (wayne.linklater): Approved for ENVS Chair
6. Sun, 19 Sep 2021 23:47:45 GMT
Tristan Josephson (tristan.josephson): Approved for SSIS College Committee Chair
7. Tue, 28 Sep 2021 18:26:22 GMT
Marya Endriga (mendriga): Approved for SSIS Dean

History

1. May 3, 2018 by clmig-jwehrheim
2. Aug 8, 2018 by 212408496
3. Dec 6, 2018 by 216279922
4. Apr 28, 2020 by Celena Showers (celena.showers)
5. Apr 23, 2021 by Katie Dickson (katie.dickson)

Date Submitted: Thu, 09 Sep 2021 20:16:04 GMT

Viewing: BS in Environmental Studies

Last approved: Fri, 23 Apr 2021 21:53:00 GMT

Last edit: Thu, 09 Sep 2021 20:16:03 GMT

Changes proposed by: Wayne Linklater (223005380)

Academic Group: (College)

Social Sciences & Interdisciplinary Studies

Academic Organization: (Department)

Environmental Studies

Catalog Year Effective:

2022-2023 Catalog

Individual(s) primarily responsible for drafting the proposed degree major program:

Name (First Last)	Email	Phone 999-999-9999
Wayne Linklater	wayne.linklater@csus.edu	916-278-6671

Type of Program Proposal:

Major

Program Change Type:

Non-Substantive

Title of the Program:

BS in Environmental Studies

Designation: (degree terminology)

Bachelor of Science

Briefly describe the program proposal (new or change) and provide a justification:

The ENVS BS includes an area for Inter-disciplinary electives. Students must choose 3 courses (for a total of 9 units) from other Departments. The purpose of this proposal is to update the list of acceptable courses to include the new course in Global Environmental History, HIST 139A, alongside HIST 165.

The objective of the change is two-fold:

1. to not unnecessarily constrain entry into the ENVS Major, and
2. provide students greater flexibility and diversity in their learning about environmental studies by the inclusion of the social sciences (e.g., politics, economics) and humanities (e.g., history) and how they are applied in Environmental Studies.

This insert will also help our program meet 4 and 5 of its learning objectives (listed below in the "Objectives of the degree program").

Objectives of the degree program:

1. Ability to assess environmental problems and solutions by applying scientific concepts.
2. Ability to write and speak clearly and persuasively.
3. Ability to carry out research tasks appropriate to analyzing environmental problems
4. Ability to integrate knowledge, research, and interpretation with substantially greater sophistication than commonly expected in coursework.
5. Ability to assess environmental problems and solutions by applying economic and political concepts.

University Learning Goals**Undergraduate Learning Goals:**

Competence in the disciplines
 Knowledge of human cultures and the physical and natural world
 Integrative learning
 Personal and social responsibility
 Intellectual and practical skills

Will this program be required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

Do these changes impact the Smart Planner roadmap?

No

Catalog Description:

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.

Admission Requirements: Course prerequisites and other criteria for admission of students to the degree major program, and for their continuation in it.

Minimum Grade Requirement

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

As defined by policy <http://www.csus.edu/umannual/acadaff/fsm00010.htm>, a change in units constitutes a substantive change to the program. If your changes constitute a substantive change, please refer back to the "Program Change Type" field above to ensure that "Substantive" is selected.

Program Requirements: (If new courses are being created as part of a new program, it will be useful to propose courses first.)

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 & BIO 15L	Basic Biological Concepts 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>)

Fiscal Impact to Change an Existing Program

Indicate programmatic or fiscal impact which this change will have on other academic units' programs, and describe the consultation that has occurred with affected units:

no impact

Attach a copy of correspondence with these units:

HIST 139A into BA and BS IE.docx

Provide a fiscal analysis of the proposed changes:

no fiscal impact

How will the above changes be accommodated within the department/College existing fiscal resources?

no fiscal impact

Will the proposed changes require additional resources?

No

What additional space, equipment, operating expenses, library, computer, or media resources, clerical/technical support, or other resources will be needed?

no additional resources required

Estimate the cost and indicate how these resource needs will be accommodated:

\$0

Reviewer Comments:

Michelle Stevens (stevensm) (Wed, 18 Aug 2021 22:34:44 GMT): ENVS 163 is missing from this program Michelle

Tristan Josephson (tristan.josephson) (Sat, 04 Sep 2021 01:00:36 GMT): Rollback: Please see email for requested changes.

Key: 235