

BACHELOR OF SCIENCE IN ENVIRONMENTAL STUDIES

The B.S. in Environmental Studies program is designed to provide a comprehensive understanding of environmental affairs. That means learning about the scientific diagnosis of environmental issues and having enough knowledge to work with scientists, in addition to the social, cultural, and technological causes of those issues. It also means understanding the diversity of approaches needed to treat the problems. In the pursuit of these objectives, the Environmental Studies program brings together philosophical, theoretical and practical perspectives on a wide range of environmental concerns. In this way, the program prepares students with the knowledge, skills and experience to work for a more ecologically sustainable and socially just world.

Students may enter the Bachelor of Science program as first-year students or as transfer students. In the first two years of the program, students develop a foundation in the social sciences, humanities, and natural sciences as they relate to environmental affairs. During that time, students also fulfill SUNY general education requirements and take some open elective courses.

Option Areas

In the final two years of the program, students must select one of three specializations called Option Areas.

Environment, Communication and Society

This option focuses on how communication and social systems influence environmental affairs and shape our perceptions of the non-human world. It addresses the subjects of rhetoric and discourse; news media; public participation; advocacy campaigns; collaboration; conflict resolution; risk communication; social processes; and representations of nature in literature and popular culture.

Environmental Policy, Planning and Law

This option is concerned with how environmental policies, plans, and laws from the local to the global are created, implemented and contested. It emphasizes legislative, regulatory, and collaborative approaches to addressing environmental issues.

Natural Systems Applications

This option is designed for students interested in the interface between biology and socio-economic issues. It provides an emphasis on natural systems and their interactions with societal issues ranging from education to habitat management.

Lower Division Environmental Studies Core Courses

APM 103	Applied Algebra & Trigonometry	3
OR		
APM 104	College Algebra & PreCalculus	3
OR		

APM 105	Survey Of Calc & Appl I	4
APM 210	Intro/Probability&Stats	3
EFB 100 OR EFB 101 AND EFB 102	Survey of Biology	4
	Gen Bio I:Organismal Bio&Ecol	3
	General Biology I Laboratory	1
EFB 103 AND EFB 104 OR EST 231	Gen Bio II:Cell Bio & Genetics	3
	General Biology II Laboratory	1
	Environmental Geology	3
EFB 120	The Global Envirnmnt & Society	3
ESF 200	Information Literacy	1
EST 132	Orientation Seminar:EST	1
EST 133	Intro to Environmental Studies	3
EST 221	Intro/American Government	3
EST 245	Foundations/Envrn Communicatn	3
EST 255	Research Methods/Envrn Studies	3
EWP 190	Writing And The Envrmnt	3
EWP 220	Public Presentation Skills	3
EWP 290	Research Writing & Humanities	3
FCH 110 AND FCH 111 OR FCH 150 AND FCH 151	Survey of Chemical Principles	3
	Survey/Chemical Principles Lab	1
	General Chemistry I	3
	General Chemistry I Lab	1
FOR 207	Introduction To Economics	3

Lower Division Electives

Course	Codes*	Credits
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General Education Course in one of the following categories: US History & Civic Engagement, The Arts, World History and Global Awareness, World Languages	G	3
General Education Course in Diversity, Equity, Inclusion and Social Justice	G	3
Directed Electives		30
Open Electives		18

Upper Division Environmental Studies Core Courses

EFB 320	General Ecology	4
OR		
FOR 232	Natural Resources Ecology	3
OR		
EST 220	Urban Ecology	3
OR		
FOR 442	Watershed Ecology & Management	3
OR		
LSA 321	Ecol Appl/Plng & Design	3
EST 321	Government & Environment	3
EST 361	DivrseHstries of Amer EnvMvmnt	3
EST 494	Sr. Seminar in Envrn Studies	1
EWP 407	Writing/Env & Sci Professionls	3
	Senior Synthesis	

Upper Division Electives

Course	Codes*	Credits
Upper Division Computing OR Natural Science Course		

Environment, Communication and Society Option

EST 390	Social Processes & Envrn	3
EST 395	Public Communcatn/Science&Tech	3

EST 493	Envrn Comm Workshop	3
	Choose two of the following five courses: EWP 495, EWP 420, ESF 6300, EFB 417, EFB 312	
	Option Courses (Including 3 credits in Methods)	15
<i>Environmental Policy, Planning and Law Option</i>		
EST 550	Envrn Impact Analysis	3
	Method Courses	6
	Law Option Courses	3
	Planning Option Courses	3
	Environmental Policy/Planning/Law Option Courses	15

Natural Systems Applications Option

Course	Codes*	Credits
Field Methods GIS (Required)		3
Field Methods Scientific Breadth		3
Natural Applications Suboptions Natural Systems		3
Natural Applications Suboptions Environmental Quality		3
Social Science Policy or law courses		9
Social Science Communication courses		6
Social Science Critical Issues in the Environment		3

Total Minimum Credits For Degree: 122-125 (total credits must include a minimum of 51 credit hours at the 300 level or above)

