

# BACHELOR OF SCIENCE IN ENVIRONMENTAL STUDIES

Students may enter the Bachelor of Science program as first-year students or as transfer students. Students who are preparing to transfer to ESF as juniors must have earned at least 60 credits of college coursework, in courses comparable to the lower-division course requirements as noted below.

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
EFB 100	Survey of Biology	4
OR		
EFB 101	Gen Bio I:Organismal Bio&Ecol	3
AND		

EFB 102	General Biology I Laboratory	1
EFB 103	Gen Bio II:Cell Bio & Genetics	3
AND		
EFB 104	General Biology II Laboratory	1
OR		
EST 231	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 Envrnment	3
EWP 220	Public Presentation Skills	3
EWP 290	Research Writing & Humanities	3
FCH 110	Survey of Chemical Principles	3
AND		
FCH 111	Survey/Chemical Principles Lab	1
OR		
FCH 150	General Chemistry I	3
AND		
FCH 151	General Chemistry I Lab	1
FOR 207	Introduction To Economics	3

## Lower Division Electives

Course	Codes*	Credits
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		27
Open Electives		18

*Upper Division Environmental Studies Core Courses*

APM 391	Intro/Probability&Stats	3
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	History/Am Envrn Movement	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 Envirn 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)

