# 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.

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| *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 | | |

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|---|---|---|
| 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 | 2 - 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 |

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|---|---|---|
| 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*

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|---|---|---|
| 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 300, EFB 417, EFB 312 | 6 |

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|---|---|---|
| | Option Courses (Including 3 credits in Methods) | 15 |
| *Environmental Policy, Planning and Law Option* | | |
| 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)