The Ecosystems and Human Impact major, leading to a Bachelor of Art degree, provides the skills, knowledge, and preparation for students to assess and address the complex interaction of humans and natural environments. The curriculum integrates principles and methodologies from ecology, biology, genetics, anthropology, human ecology, geography, combined with an understanding of economics, ethics, and policy within a global perspective.

The major prepares students for entry-level employment in the public, private, or non-profit sectors concerned with a wide range of issues, such as: conservation of ecosystems, ecosystem restoration, loss of biodiversity, and development of sustainable bioresources. The major prepares students for graduate study in anthropology, geography, environmental science, sociology, natural resource management, and biology among other fields.

The major builds on the interdisciplinary core curriculum offered at Stony Brook Southampton. Students will enroll in major-specific courses in their junior and senior year. In their junior or senior year students will have the opportunity to enroll in the study abroad program at Ranomafana, Madagascar, which provides training in field biology, ecology, primatology, and anthropology. Students enrolled in this program will take courses and conduct independent research that contributes to a better understanding of Ranomafana National Park and the link between the park and the people of the region. Local internships, research courses, and field courses are also available to students to build up real-world experience.

The major is offered at Stony Brook Southampton only.

Requirements for the Major in Ecosystems and Human Impact (EHI)

A. Required Foundation Courses for Major (33-34 credits)
   - MAT 131-C or MAT 125-C Calculus
   - ECO 108-F Introduction to Economics
   - SBC 111 Introduction to Sustainability
   - SBC 113-E Physical Geography
   - SBC 116 Human Geography
   - ENV 115-E Chemistry, Life, and Environment
   - SBC 201 Systems and Models
   - ANP 120-E Introduction to Physical Anthropology
   - SBC 204 Population Studies
   - SBC 205 Introduction to Geospatial Analysis
   - BIO 201-E and BIO 204 Fundamentals of Biology: Organisms to Ecosystems and lab

B. Career and Leadership Skills (6 credits)
   - CSK 102 Career Leadership Skills: Working in Teams
   - CSK 104 Career Leadership Skills: Negotiation and Conflict Resolution
   - CSK 101, 103, 105, 106, 107, or 108
   - CSK 302 Technical Writing and Communication

C. Core Courses (31 credits)
   - ENV 304-H Global Environmental Change
   - BIO 351 Ecology
   - EHI 326 Conservation Genetics
   - EHI 322 Human Ecology
   - EHI 310 Preservation and Restoration of Ecosystems

In addition to the 4 core courses (12 credits) above, students are required to select four courses from group I (12-14 credits) and one course (3 credits) from group II. (Note ANP 325, 391, 350 are offered in Madagascar)

Group I:
   - ANP 325 Primate Behavior
   - ANP 391 Ecosystem Diversity and Evolution
   - ANP 350 Field Methods in Primatology and Field Biology
   - BIO 352 Ecology Laboratory
   - MAR 315 Conservation Biology and Marine Biodiversity
   - MAR 388 Tropical Marine Ecology
   - EHI 310 Preservation and Restoration of Ecosystems

Group II:
   - SBC 206 Economics and Sustainability
   - SBC 309 Global Environmental Politics
   - SUS 341-H Environmental Treatises and Protocols
   - SBC 307-K, 4 Environmental History of North America
   - SBC 320-J Sub-Saharan Africa: Geography, Cultures, and Societies
   - SUS 350 Contemporary Topics in Sustainability
   - EDP 309 Planning: Policies and Regulations
   - EHI 311 Ecosystem Based Management
   - EHI 321 Human Reproductive Ecology
   - EHI 340-H Ecological and Social Dimensions of Disease
   - EHI 342-H Materials in Human and Natural World
   - EHI 343-H Sustainable Natural Resources
   - ENS 380 Stony Brook in Tanzania: Lake Victoria Environment and Human Health

One of the following course may be substituted for any of the courses in Group II, but each of these courses below has a prerequisite outside the major.

   - SBC 310 Migration, Development and Population Redistribution
   - CUE 321-G Ecology and Evolution in American Literature
   - SUS 303 Demographic Change and Sustainability
   - SUS 305-F Collective Action and Sustainability
   - SUS 301 Environmental Ethics
   - SBC 311-F Disasters and Society: A Global Perspective
   - SBC 312-F Environment, Society, and Health
   - SUS 306 Business and Sustainability
   - SUS 307 Environmental Economics and Sustainability

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D. Systems Course (3 credits)
Choose one of the following:

- GEO 301 Sustainability of the Long Island Pine Barrens
- SBC 401 Integrative, Collaborative Systems Project
  or ANP 487 or ANT 487: Independent Study; Research in Biology, Natural History
  or Anthropology (both Cultural and Physical) as part of study abroad in Madagascar

E. Communications and Writing requirement
Proficiency in writing, oral communication, and computer literacy is encouraged in all students. In addition to CSK 302, these skills will be developed within the context of other formal coursework and no additional credits are required. To meet the upper-division writing requirement, students must submit two papers from any 300-level or 400-level course in the major to the Director of the SUS Undergraduate Program.

Minor in Ecosystems and Human Impact (EHI)
The Ecosystems and Human Impact minor is intended for students who seek to complement their chosen major with a coherent set of courses emphasizing the interaction between humans and ecosystems from an interdisciplinary perspective.

Requirements for the Minor in Ecosystems and Human Impact (EHI)
No more than two courses that are used to satisfy your major can be applied to this minor. No more than one three-credit course in the minor may be taken under the Pass/No Credit option. All upper-division courses offered for the minor must be passed with a letter grade of C or higher. Completion of the minor requires 19 - 20 credits.

1. Required introductory courses:
   - SBC 111 Introduction to Sustainability
   - BIO 201 Fundamentals of Biology: Organisms to Ecosystems
   - SBC 201 Systems and Models
   - One of the following two courses:
     - ANP 120 Introduction to Physical Anthropology
     - ENV 115 Chemistry, Life, and Environment

2. Required three advanced courses chosen from the following:
   - *ANP 325 Primate Behavior
   - *ANP 350 Methods in Studying Primates
   - *ANP 391 Ecosystem Diversity and Evolution
   - BIO 301 Sustainability of the Long Island Pine Barrens
   - BIO 351 Ecology
   - BIO 352 Ecology Laboratory
   - EHI 310 Restoration Ecology
   - EHI 311 Ecosystem-Based Management
   - EHI 322 Human Ecology
   - EHI 342 Materials in Human and Natural World
   - EHI 343 Sustainable Natural Resources
   - ENV 304 Global Environmental Change
   - ENV 340 Contemporary Topics in Environmental Science
   - MAR 315 Conservation Biology and Marine Biodiversity
   - SBC 309 Global Environmental Politics
* These courses are offered as part of the Madagascar Study Abroad Program.

Declaration of the Minor
Students should declare the Ecosystems and Human Impact minor no later than the middle of their sophomore year, at which time they should consult with the minor coordinator or undergraduate director and plan their course of study for fulfillment of the requirements.

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