From its beginnings more than 50 years ago, Stony Brook University has been characterized by innovation, energy, and progress transforming the lives of people who earn degrees, work, and make groundbreaking scientific discoveries here.

Today Stony Brook is one of only 62 members of the prestigious, invitation-only Association of American Universities. Listed among the top 1 percent of the world’s universities in the Times Higher Education World University Rankings, Stony Brook University is consistently named one of the best values among public universities by Kiplinger’s Personal Finance.

Sustainability Studies Program

Stony Brook University is a national leader in sustainability education. The Sustainability Studies program, in the School of Marine and Atmospheric Sciences, offers five majors and six minors that help prepare students for careers in developing sustainable solutions to the growing problems our planet faces. Our multi-disciplinary programs encourage our students to think critically, work collaboratively, and engage in hands on problem solving. We share a vision of a safer, healthier, sustainable planet for future generations.

**Majors**
- BS in Coastal Environmental Studies
- BA in Ecosystems and Human Impact
- BA in Environmental Design, Policy, and Planning
- BA in Environmental Humanities
- BA in Sustainability Studies

**Minors**
- Minor in Coastal Environmental Studies
- Minor in Environmental Humanities
- Minor in Ecosystems and Human Impact
- Minor in Environmental Design, Policy and Planning
- Minor in Geospatial Sciences
- Minor in Sustainability Studies
Sustainability Studies

Faculty Director: Dr. Arlene Cassidy
Arlene.Cassidy@stonybrook.edu

Major and Minor

When we produce goods, how much and how quickly are we consuming natural resources to keep production flowing? When political decisions are made in the name of progress, how do they affect future generations? In Sustainability Studies you will learn about viable economic practices that are ecologically sound, socially just, and fiannically prosperous in the growing global economy.

This major leading to a BA degree, helps prepare students to understand and address the environmental, social, political, economic, and ethical issues related to the transformation of our current practices in societies to ones that are more sustainable. Our curriculum integrates principles and methodologies from social and natural sciences, as well as the humanities. Students are encouraged to take advantage of internships, team project courses, independent research, and hands on activities to gain real-world experience during their studies.

Fast - Track BA / MBA

Complete your BA / MBA in 5 years!

Business is an ever growing part of the sustainable job market. By choosing the Sustainability Studies major you can plan to complete both degrees in just five years. This program is a great opportunity and is designed for high achieving students who can begin planning their courses in their freshman year.

Ecosystems and Human Impact

Faculty Director: Dr. James Hoffmann
James.Hoffmann@stonybrook.edu

Major and Minor

Human beings can sometimes take the environment for granted. We may threaten the air, water, and wildlife with our current way of life on planet Earth. This major examines natural ecosystems and how they function or degrade in the face of potential threats from humans. We also look at the “services” these ecosystems provide: food, shelter, and purifying our water and air. (For example: did you know 25 % of the oxygen we breathe comes from microscopic algae floating in lakes and oceans?)

The Ecosystems and Human Impact major, leading to a BA degree, prepares students to analyze and address the complex interaction of humans and the natural environments that surround us.

The curriculum for this major and minor integrate principles and methodologies from ecology, biology, genetics, anthropology, and geography, combined with an understanding of economics, ethics, and policy within a global perspective. Students will learn skills in modeling and systems thinking which are increasingly becoming sought after in the evolving global job market.

All students will have the opportunity to enroll in one of our Study Abroad programs, including a winter session in Costa Rica which provides hands on training in field work on renewable energy, ecology, permaculture, and cultural anthropology.

Environmental Design, Policy and Planning

Faculty Director: Dr. H. James Quigley
Harold.QuigleyJr@stonybrook.edu

Major and Minor

Must we live with the traffic congestion created by suburban sprawl? As people push ever outward from our cities, is there any way to preserve open space and manage urbanization? Are today’s plans for the repair or expansion of transportation, water, power supply, and waste management infrastructure sufficiently accommodating the concept of sustainability?

The Environmental Design, Policy and Planning major, leading to a BA degree, focuses on the built environment, culminating in a degree that prepares students to work in areas such as: land use planning and design, community redevelopment, real estate development, landscape architecture, and public policy advocacy. This major prepares students to understand and address complex issues related to planning and development, land-use, urbanization, the impacts of climate change on cities and how societies need to adapt to a changing environment.

The curriculum for the major and minor integrates principles and methodologies from social and natural sciences, as well as arts and design in the humanities. The goal is to address the complex scientific, ethical, political, environmental, and socio-economic issues that surround the development, management, and use of the built environment in today’s societies.
COASTAL ENVIRONMENTAL STUDIES
Faculty Director: Dr. Katherine Aubrecht
Katherine.Aubrecht@stonybrook.edu

Major and Minor
This rigorous science degree integrates physical and natural sciences together with environmental ethics, policy, and law in order to understand challenges relating to water and land resource use in coastal zone development. This major will prepare students for one of the most important environmental careers of the future - coastal zone management. Coastal zones have always seen concentrated populations and robust economic activities because of their natural resources and trading opportunities.

The Coastal Environmental Studies major, leading to a BS degree, provides the skills, knowledge, and preparation for students to analyze and address coastal environmental problems. Students will have opportunities to engage in critical thinking, team project classwork, and hands on problem solving. The curriculum integrates principles and methodologies from the physical and natural sciences, geography, environmental ethics, geospatial sciences, public policy, and law.

The COS major prepares students for entry level employment in the public, private, or non-profit sectors concerned with assessment, monitoring abatement, or regulation of a wide range of coastal environmental problems, in addition to laying the foundation for graduate study in environmental or marine science, geoscience, environmental planning and related fields.

ENVIRONMENTAL HUMANITIES
Faculty Director: Dr. Heidi Hutner
Heidi.Hutner@stonybrook.edu

Major and Minor
How does our understanding of narratives in literature and the media help us to better grasp current environmental issues? EHM students will take courses in environmental literature, media & environmental film, environmental aesthetics and art, environmental philosophy and history. The interdisciplinary program also includes study in politics, social issues related to gender, race, culture, and class. The curriculum includes research, public speaking, and outdoor nature experiences. The design of the major highlights connections in the humanities and social sciences through a variety of environmental and sustainability topics. Also required are basic science courses that enable students to gain a rich and deep understanding of the field of sustainability.

The Environmental Humanities major which leads to a BA degree, integrates areas including: writing, ecofeminism, philosophy, history, media arts, anthropology, art, environmental literature, and architectural history. This major prepares students for careers in educational, not-for-profit and NGO work, community organizing and activism, environmental advocacy and writing, eco-aesthetics and the arts.

The Environmental Humanities major and minor draw upon a range of disciplines that explore human understanding and interpretation of nature, incorporating hands on learning experiences and career skills development.

GEOSPATIAL SCIENCES
Faculty Director: Dr. Sung Gheel Jang
Sunggheel.Jang@stonybrook.edu

Minor and Graduate Certificate Program
Geographical Information Systems can integrate and relate any data with a spatial component (location), regardless of the source of the data. These systems integrate methodology capable of capturing, querying, analyzing, and displaying geographically referenced information; that is, data identified according to location. Geospatial Science (GSS) is used in a wide range of disciplines as a research and decision making tool and for planning and data analysis.

The Minor in Geospatial Science (GSS) is flexible and allows students from a broad spectrum of academic backgrounds to acquire the necessary skills to complement their area of study. Students will receive training in the use of Geographical Information System software and may choose from several electives to broaden their experience in geospatial sciences.

The Graduate Certificate (GSS) will allow graduate students and working professionals to advance their GIS knowledge and employment opportunities with an industry recognized certificate. Students will earn 18 credits in the graduate certificate where flexible scheduling and many online course offerings are intended to allow enrollees to complete the certificate requirements in one year. Three admissions cycles per year allow you to start as soon as you are ready!
GREEN CAREERS:
The Direction of Jobs and the Economy: Present & Future

Our society is adapting to the new realities of an interconnected world that faces increasing environmental challenges, population growth, and dwindling non-renewable resources. New careers are emerging and others are being redefined in the context of these new challenges. Careers focusing on conservation of ecosystems and biodiversity, working with industries on the implementation of alternative energy resources, designing and building greener communities, developing new policies and incentives for businesses and consumers to make sustainable choices are just a few examples of that are seeing rapid development and expansion.

Minimizing the use of resources while lowering costs is a growing incentive for businesses, government, and individuals to innovate and operate more sustainably. To achieve this, there is a need for skilled analysts, consultants, educators, advocates, planners, and policy makers. Many of these jobs did not exist several years ago and this “green” sector of the economy is expected to continue to grow. The Ecotech Institute used the U.S. Bureau of Labor Statistics definition of a green job to calculate the number of clean job openings in 2014. The organization found a 13% increase in clean job opportunities from 2013 to 2014, from 3.6 million in 2013 to 3.8 million jobs in 2014. The institute estimates that there were 1.2 million clean job openings in the first three months of 2015, the last period for which data is available. Some examples of “green/clean” and sustainable career opportunities are:

Town/County/ State Planning & Land Use
- Environmental & Green Business Consulting
- Historical Preservation & Stewardship
- Renewable & Alternative Energy Research
- Environmental Education
- Eco-Tourism & Travel
- Geographic Information Systems Specialist
- Recycling & Waste Reduction
- Not-for-Profit Advocacy Organizations
- Governmental & Regulatory Administration
- Ecosystem Restoration and Conservation

RESEARCH OPPORTUNITIES

The Sustainability Studies Program at Stony Brook encourages our undergraduates to explore the synergy between research and classroom learning. Semester long and summer research opportunities are designed to engage students in hands-on discovery based learning to develop skills as they examine a subject in collaboration with outstanding scientists, scholars, and mentors and their peers. Special grant funding is made available for student proposals that meet the rigorous submission standards.

TRAVEL

Get a fresh perspective and first hand experience in looking at the Earth’s environmental problems by studying abroad. We offer winter opportunities to study renewable energy and conduct field work in Costa Rica, including the study of permaculture farming, wind power and water conservation. Coming in the Winter of 2017, study abroad in Cuba, and learn about the environmental concerns of the nation from a humanities perspective.

INTERNSHIPS

Academic internships enable our students to put theory to practice and develop valuable career skills. Some recent internship opportunities include: rehabilitation and release of marine mammals, monitoring protected nesting sites on Fire Island for piping plovers, positions with the city and state parks in environmental education, working with NYC department of transportation and emergency management authorities, GIS mapping project with the Suffolk County Water Authority, and many more.

These experiences will help prepare students to enter one of the many fields related to stewardship of the Earth in many expanding areas like carbon trading, pollution prevention and reduction, geographic information systems, natural resource management, NGO organizations, public policy, and land-use planning. Such experiences can provide students with a competitive edge in the global job market as businesses are increasingly looking for employees with backgrounds that include sustainability experience.

FOR MORE INFORMATION
ABOUT APPLYING TO
STONY BROOK UNIVERSITY

www.stonybrook.edu/admissions

Priority Application Deadline: January 15
We accept both the Common and SUNY applications
E-mail: enroll@stonybrook.edu
Phone: (631) 632-6868

CLUBS

Opportunities abound at Stony Brook University to take part in student clubs and organizations providing scholastic, recreational, intellectual, cultural and social interaction. They give students the opportunity to increase their leadership skills and abilities, enhance personal and scholastic development, and help define and shape personal and professional career goals.

You’ll be sure to find at least one club from the many on the SBU campus that matches your interests, here are just a few examples:

- N.Y. Public Interest Research Group
- The Greening Committee
- The Eco Leaders Program
- The Environmental Club
- The Earthstock Committee
- The Ecology Club
- Campus Organic Farm Club
- Engineers Without Borders
- Global Environmental Brigades
- Health and Nutrition Club
- Marine Science Club
- and many, many more!

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