

# Environment, Geography, and Marine Sciences

## Bachelor of Arts • Bachelor of Science • Minors

**Environmental Science** is a diverse, multi-faceted field that offers environmentally-minded students a number of rewarding paths to careers. At Southern, students learn via hands-on educational experiences, participating in environmental and geographic courses and activities, student-faculty research collaborations or faculty-supervised research projects, cutting-edge field data collection methods and technologies, and lab-based data analysis procedures. This program has three tracks: Environmental Systems, Coastal Marine Systems, and Policy and Management.

### DEGREE PROGRAMS

**Environmental Systems and Sustainability, B.S. — Concentration: Coastal Marine Systems** | With almost half of humanity living within 60 miles of the coast, the coastal marine environment requires in-depth understanding of aquatic ecosystems and processes. Students focus on environmental problem solving in terrestrial and coastal marine settings, with courses that explore the area's geography, processes, and pollution.

**Environmental Systems and Sustainability, B.S. — Concentration: Environmental Systems** | Students focus on environmental problem solving in terrestrial and coastal marine settings, with an emphasis on solving environmental problems such as water, food and climate change, which are essentially terrestrial in nature.

**Environmental Systems and Sustainability Studies, B.S. — Concentration: Sustainability Science and Environmental Policy** | Provides students with the theoretical background and practical skills necessary to ensure sustainability challenges are addressed effectively and meaningfully. This concentration focuses on skills development and experiential learning in areas such as public engagement, applied sustainability, and environmental policy analysis.

**Geography, B.A.** | Students study the behavioral and social aspects of geography through courses such as physical and human geography, as well as economic and political geography. Students are encouraged to supplement their degree with the completion of a minor, which will allow students to apply disciplinary skills (e.g., multi-scalar analysis, geographical thinking, etc.) in an interdisciplinary context.

**Geography, B.S. — Concentration in Geographic Information Science and Technology** | Students learn the fundamentals of geography and, through hands-on projects using the latest geospatial technologies, the different scientific tools to study the relationships between earth's systems. After completion of the geography core, students take advanced coursework in Geographic Information Systems, Geospatial Analysis and Data Visualization, Remote Sensing and/or Field Techniques.

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### The Werth Center for Coastal and Marine Studies

(WCCMS) provides innovative research and educational opportunities for all undergraduates, and serves as a model for facilitating faculty collaboration in teaching and research.



Expect more. Be more.  
**Southern.**



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**Minor in Drone Applications — Joint with Journalism** | This interdisciplinary minor is designed for students interested in learning about emerging drone technologies and how they can be applied to professional settings. Students study how drones (small unmanned aerial systems or UAS) are employed for geography, environmental sciences, and other industries, with consideration given to their legal and ethical applications.

**Minor in Environmental Studies** | Courses address a broad range of topics including climate change, biodiversity loss, chemical pollution, agricultural and food practices, water resources, energy, and natural resource depletion.

**The Geographic Information Science and Technology Minor** | Students gain cutting-edge technical knowledge and skills using state-of-the-art information technology, such as geographic information systems (GIS), satellite imagery analysis, and global positioning systems (GPS).

**Minor in Geography** | This program provides students with a solid foundation in geographical theory and concepts while augmenting their Liberal Studies, Interdisciplinary Studies, or other major enhanced by expertise in the field of geography.

**Minor in Marine Studies** | Designed for science and non-science majors, a hands-on approach at field sites such as marshes, estuaries, beaches, rocky intertidal zones, urban harbors, and regional aquaria provide students an exciting opportunity to learn science and its application to environmental problems.

For more information on program requirements, visit

[Catalog.SouthernCT.edu/undergraduate](http://Catalog.SouthernCT.edu/undergraduate)

### CAREER OPPORTUNITIES

There are many rewarding careers you can pursue with a degree in Environment, Geography and Marine Sciences, including:

- Botanist • Ecologist or Restoration Ecologist • Environmental Educator
- Fisheries Biologist • Forester • Geographic Information System (GIS) Specialist • Marine Biologist • Oceanographer • Park Ranger • Soil Scientist
- Wildlife Biologist

### FOR MORE INFORMATION

Undergraduate Admissions Office  
501 Crescent Street, New Haven, CT 06515  
(203) 392-5644

[Admissions@SouthernCT.edu](mailto:Admissions@SouthernCT.edu)

[SouthernCT.edu/admissions/undergraduate](http://SouthernCT.edu/admissions/undergraduate)



### Study Abroad

Two short-term study abroad opportunities available — summer in Iceland (6 credits) and winter in South Africa (3 credits). Both programs count directly – but are not required – to the major and allow students to get ahead in credits over the break.



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