

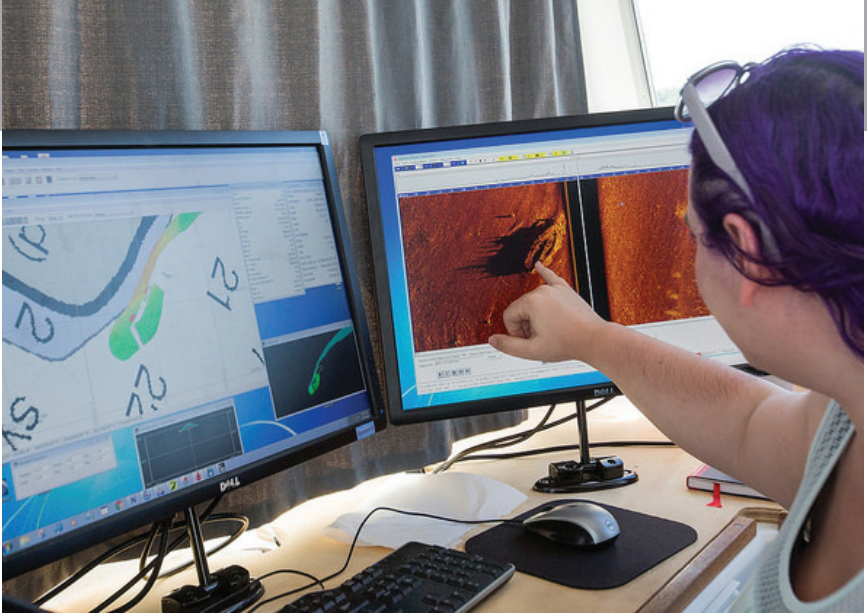


MARINE SCIENCE

Program

stockton.edu/nams

STOCKTON | SCHOOL OF NATURAL
UNIVERSITY | SCIENCES & MATHEMATICS



Marine Science Program | MARS

ABOUT THE PROGRAM

Stockton University is located adjacent to the Jacques Cousteau National Estuarine Research Reserve (Mullica River-Great Bay estuary) and is one of only a few undergraduate institutions in the U.S. that offers a degree program in Marine Science alongside a dedicated, easily accessible field facility (Stockton Marine Field Station) www.stockton.edu/marine. With direct access to the Field Station only 10 minutes away, the program is well situated to provide superior field, teaching, and undergraduate research opportunities that form the backbone of the curriculum.

Stockton's **Marine Science (MARS) program** encompasses two general areas of study: Marine Biology and Oceanography. A number of field and laboratory courses, seminars, independent studies, internships, and research team opportunities are offered, with a strong emphasis on gaining experience in the field. The program is interdisciplinary and requires student competence in several areas of science. Upper-level students have the opportunity to design and implement their own independent study projects and are strongly encouraged to present results at the NAMS Undergraduate Research Symposium and regional conferences. Teacher (K-12) and GIS certifications are available through affiliated Stockton programs.

The Marine Sciences tracks of study:

Marine Biology, BA and BS, Oceanography, BA and BS

Program Highlights

- Small course sections taught primarily by full-time faculty (not by graduate assistants).
- Every student is assigned a faculty member as their academic adviser (preceptor)
- Faculty encourage and supervise internships and research projects.
- Numerous field-related volunteer and employment opportunities in the area.

Marine Field Station

- Facility provides easy access to the pristine Mullica River-Great Bay estuary.
- Aquaria housing local fauna.
- Multiple buildings with GIS-equipped teaching and research spaces.



- A fleet of five research vessels: U.S.C.G. Safety Compliant; Estuarine and ocean capabilities;
- State-of-the-art sampling and research equipment: Multibeam Sonar; Side-scan Sonar; Remotely Operated Vehicle; Magnetometer; Mobile LiDAR; Acoustic Doppler Current Profilers; Advanced water monitoring instruments; All basic oceanographic/estuarine sampling needs.
- Student employment and internship opportunities.
- Site of the Coastal Research Center that studies NJ coastal erosion and beach replenishment.

In addition to the University's general education requirements, Marine Science majors are expected to complete the following courses:

The BS requires 80 credits in Core Courses. The BA requires 64 credits in Core Courses. These courses include:

- Introduction to Marine Biology, Introduction to Oceanography, Marine Science Seminar, Chemistry I and Chemistry II with labs, Physics I and II with lab.

Additional courses are taken to fulfill the degree requirements and may be chosen in consideration of a specific concentration or focus. These courses include:

Marine Biology Concentration:

Biodiversity and Evolution with lab, Cells and Molecules with lab, Coastal Oceanography, Global Ocean Basins, Marine Geology, Ecology, Marine Botany, Marine Biology Methods and Analysis, Biological Oceanography, Invertebrate Zoology, Introduction to Ichthyology, Marine Mammalogy, Aquaculture, Fisheries Science & Management, Marine Conservation Ecology.

Oceanography Concentration:

Chemistry IV with Lab, Calculus I & II, Oceanographic Methods, Global Ocean Basins, Marine Geology, Coastal Processes, Coastal Oceanography, Biological Oceanography, Geographic Information Systems, Data Methods in Marine Science, Calculus I, and Upper Level Cognates.

During their Junior and Senior years, Marine Science majors may choose from the following upper level courses:

Tropical Marine Biology	Underwater Robotics	Marine Survey Methods
Deep Sea Biology	Analysis of Ecological Statistics	Coastal Processes
Marine Chemistry Lab	Biostatistics	Underwater Archeology

FOR ADDITIONAL INFORMATION

Susanne Moskalski, Marine Science Chair

Susanne.Moskalski@stockton.edu | 609.626.6853



stockton.edu/nams

FOR INFORMATION ABOUT THE PROGRAM:

STOCKTON UNIVERSITY | Marine Science Program

101 Vera King Farris Drive, Unified Science Center, Suite 240,
Galloway NJ 08205-9441

nams@stockton.edu | 609.652.4546



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Stockton is an AA/EQ institution.