



Rider University has sustained a tradition of academic excellence and student success since 1865. Rider offers an array of excellent undergraduate and graduate programs that promote experi-

ential learning in an intellectually stimulating and caring environment.

Rider's Department of Geological and Marine Sciences has offered a BS degree in marine science since 1988. Our philosophy stresses the interdisciplinary nature of marine science and our students often double major or minor in biology, geoscience, or environmental science. For students interested in marine science and teaching at the secondary level, we have a complimentary degree program with a marine ecology emphasis for K-12 education majors. Rider also offers certification courses in hazardous materials handling and in SCUBA diving.

UNDERGRADUATE PROGRAMS OFFERED IN:

- Geological and Marine Science with Geoscience Concentration
- Geological and Marine Science with Marine Science Concentration
- Geological and Marine Science with Environmental Science Concentration
- Honors Programs in Environmental Science, Geoscience, or Marine Science
- Liberal Studies with a Marine Ecology Concentration

Rider students experience the relationships and interactions among the disciplines of chemical and physical oceanography, marine biology, and sedimentology. Many of our courses offer field trips to local marine habitats including trawling and benthic sampling aboard the New Jersey Marine Science Consortium's R/V Walford, coastal dune communities at Sandy Hook, upland marsh at the Trenton-Mercer county marsh, and Spartina marsh habitats at the

Rutgers University Marine Field Station.

Rider also offers three 2-week long introductory field courses that immerse students in unique marine ecosystems including: a boreal (cold water) course at the Shoals Marine Laboratory in Maine, a sub-tropical course at the Bermuda Biological Station for Research, a tropical course at the Roatan Institute for Marine Science, in Honduras, and an advanced course in the Florida Keys. Rider's newest field course is offered to K-12 educators and integrates practical experience in marine science and teaching techniques that teachers can use in their classrooms. Rider's field courses expose students to a variety of marine communities including coral reefs, seagrass beds, mangrove forests, rocky intertidal areas, sand and mud tidal flats, and salt marshes. Students explore these communities by collecting organisms using various types of gear; quantifying various aspects of the substrate they live in, and measuring the physical and chemical aspects of the water with an array of electronic instruments. Students also conduct team mapping projects as well as individual research projects during these courses. A semester-long experience in Bermuda is also available via the study abroad program.

Rider encourages marine science students to conduct independent research projects with a faculty mentor. Marine science faculty have an array of research backgrounds allowing Rider students to perform research while earning credits via independent study, senior thesis options, and internships at places such as the New Jersey aquarium, the Center of Marine Biotechnology in Baltimore, and the Rutgers University Marine Field Station. The result is that marine science majors are well prepared as young scientists and Rider graduates have a history of success in the marine science field. Many marine science graduates have subsequently completed masters and doctoral programs at excellent universities. Marine science graduates are working at a variety of locations including the National Aquarium in Baltimore, the National Marine Fisheries Service, the Smithsonian Environmental Research Center, the New Jersey Department of Environmental Protection, and teaching science in area school systems.

For more information about the Department of Geology and Marine Sciences, please visit our website at <http://enigma.rider.edu/~wwwgeo/>.

