

OCEANOGRAPHIC SCIENCE AND TECHNOLOGY (GRADUATE CERTIFICATE)

This graduate certificate program is designed to train engineers and environmental scientists in ocean science and technology. The certificate program focuses on the environmental factors, design challenges, and corresponding analysis with direct applications to the growing fields of marine technology, ocean engineering, and marine renewable energy. Students complete a 12-credit set of online courses in Marine Sciences, Mechanical Engineering, and Electrical and Computer Engineering. These courses build competency in ocean fluid dynamics, oceanographic data analysis, underwater acoustics, and underwater sensing systems analysis and design.

Required Courses

Course	Title	Credits
MARN 5068	Ocean Fluid Dynamics	3
MARN 5200	Oceanographic Data Analysis	3
ECE 5151	Underwater Acoustics and Sensing Systems	3
ME 5215	Underwater Sensor Systems Analysis and Design	3
Total Credits		12