OCEAN ENGINEERING (M.S.)

https://ceps.unh.edu/ocean-engineering/program/ms/ocean-engineering

Description

Programs in Ocean Engineering are by definition interdisciplinary and require students to interact with the ocean science community as well as the traditional engineering disciplines. In this context, students are exposed to the broad-based issues of working engineering problems in the ocean environment. They are trained to develop responsible solutions to problems that will lead to sustainable activity and life in the ocean.

Requirements

Degree Requirements

The Master of Science in Ocean Engineering requires the completion of at least **30 graduate credits**.

Code		Title	Credits
Core Courses			
OE 990 & OE 991		Ocean Seminars I and Ocean Seminars II	2
Select one course from the following:			3-4
BIOL 85	5	Biological Oceanography	
ESCI 85	2	Chemical Oceanography	
ESCI 85	8	Introduction to Physical Oceanography	
ESCI 85	9	Geological Oceanography	
ESCI 86 & ESCI 8	8 869	Applied Physical Oceanography for Hydrographic Surveyors and Marine Geology and Geophysics for Hydrographic Surveyors	
Select four courses from the following:			13-16
ESCI 82	0	Ocean Measurements Lab	
ESCI 86	4	Spectral Analysis of Geophysical Time Series Data	
OE 817		Marine Robotics and Applications	
OE 853		Ocean Hydrodynamics	
OE 854		Ocean Waves and Tides	
OE 857		Coastal Engineering and Processes	
OE 858		Design of Ocean Structures	
OE 865		Underwater Acoustics	
OE 874		Integrated Seabed Mapping Systems	
Select two additional 800/900-level CEPS courses			6-8
Complete Master's Thesis			
OE 899		Master's Thesis	6
Total Credits			30-36

Student Learning Outcomes

Program Learning Outcomes

- Use their ocean engineering graduate education for success in technical careers in industry, academia, government, or for advanced ocean-related research in engineering and the physical sciences.
- Rigorously apply fundamentals of science and engineering to professional practice that enhances our understanding of and/or contributes to the sustainable development of the oceans.
- Contribute their ocean engineering problem solving skills to society through participation and leadership in groups dedicated to serving both professional associations and the public interest.