OCEAN ENGINEERING (M.ENG.)

https://gradschool.unh.edu/program/meng/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. The Ocean Engineering M.Eng. degree includes both coursework and a M.Eng. project as a capstone experience.

Requirements

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>OE 990</td>
<td>Ocean Seminars I</td>
<td>2</td>
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<tr>
<td>&amp; OE 991</td>
<td>Ocean Seminars II</td>
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Select one of the following: 3-4 credits

- BIOL 855  Biological Oceanography
- ESCI 852  Chemical Oceanography
- ESCI 858  Introduction to Physical Oceanography
- ESCI 859  Geological Oceanography

Select four courses from the following: 13-16 credits

- ESCI 820  Ocean Measurements Lab
- OE 854  Ocean Waves and Tides
- OE 857  Coastal Engineering and Processes
- OE 858  Design of Ocean Structures
- OE 864  Spectral Analysis of Geophysical Time Series Data
- OE 865  Underwater Acoustics
- OE 874  Integrated Seabed Mapping Systems

Three additional 800-900 CEPS Courses 9-12 credits

Complete Master’s Project 3 credits

Total Credits 30-37

Student Learning Outcomes

Students graduating with a MS or MEng in Ocean Engineering should be able to:

- 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.