**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**

**Degree 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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<tr>
<td>OE 990 &amp; OE 991</td>
<td>Ocean Seminars I and Ocean Seminars II</td>
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<tr>
<td>BIOL 855</td>
<td>Biological Oceanography</td>
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<td>ESCI 852</td>
<td>Chemical Oceanography</td>
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<tr>
<td>ESCI 858</td>
<td>Introduction to Physical Oceanography</td>
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<td>ESCI 859</td>
<td>Geological Oceanography</td>
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<td>ESCI 820</td>
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<td>OE 854</td>
<td>Ocean Waves and Tides</td>
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<td>OE 857</td>
<td>Coastal Engineering and Processes</td>
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<td>OE 858</td>
<td>Design of Ocean Structures</td>
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<td>Spectral Analysis of Geophysical Time Series Data</td>
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<td>Underwater Acoustics</td>
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<td>OE 874</td>
<td>Integrated Seabed Mapping Systems</td>
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<tr>
<td>OE 892</td>
<td>Master’s Project</td>
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**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.