OCEANOGRAPHY - BS, MARINE ECOSYSTEM SCIENCE AND HEALTH TRACK - 5-YEAR BACHELOR OF SCIENCE AND MASTER OF OCEAN SCIENCE AND TECHNOLOGY

The Department of Oceanography offers a 5-year (3+2) combined degree program that allows a Bachelor of Science in Oceanography major with a track in Marine Ecosystem Science and Health to enter the Master of Ocean Science and Technology at the start of their senior year (typically year four) at Texas A&M University. This enables students to receive their Oceanography undergraduate degree (BS) and a Master of Ocean Science and Technology (MOS) graduate degree in five years. For additional information, please visit [https://ocean.tamu.edu/](https://ocean.tamu.edu/).

### Program Requirements

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<tr>
<th></th>
<th>First Year</th>
<th></th>
<th>Second Year</th>
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<th>Third Year</th>
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<td>Composition and Rhetoric</td>
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The program includes a total of 156 hours with 6 hours being applied toward both the Bachelor of Science in Oceanography and the Master of Ocean Science and Technology.

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>OCNG 620</td>
<td>Biological Oceanography</td>
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<tr>
<td>or OCNG 640</td>
<td>or Chemical Oceanography</td>
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<td>OCNG 657</td>
<td>Data Methods and Graphical Representation in Oceanography</td>
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<td>Language, philosophy and culture (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a>)</td>
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**Fifth Year**

**Fall**

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<td>OCNG 604</td>
<td>Ocean Observing Systems</td>
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<td>OCNG 656</td>
<td>MATLAB Programming for Ocean Sciences</td>
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<td>or OCNG 669</td>
<td>or Python for Geosciences</td>
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<tr>
<td>Advanced specialized OCNG graduate course</td>
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| Semester Credit Hours | 12 |

**Spring**

<table>
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<td>OCNG 661</td>
<td>Advanced Oceanographic Data Analysis</td>
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<td>Advanced specialized OCNG graduate course</td>
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| Semester Credit Hours | 12 |

| Total Semester Credit Hours | 150 |

1 A grade of C or better is required.
2 Select from ATMO 363; BIOL 213, BIOL 214, BIOL 351; CHEM 315, CHEM 362, CHEM 383, CHEM 415; GENE 302; OCNG 350, OCNG 425, OCNG 453, OCNG 456, OCNG 469.
4 Applied toward both the Bachelor of Science in Oceanography and the Master of Ocean Science and Technology.

Any of the required courses may be taken during the Summer Sessions to diminish the heavy semester loads during Years 2 and 3.

Students will not be permitted to receive credit for both the 400- and 600-level versions of certain courses because the content and learning outcomes are too similar (OCNG 440/OCNG 640; GEOS 470/OCNG 655).