

B.S. in Oceanography + STEM minor

Although a STEM minor is not required for students majoring in Oceanography, it is highly encouraged for those interested in attending graduate school. There are several STEM minors for each track that, with the proper selection of track and technical electives, can be complete without any additional coursework above the 120-hour major.

**Minors listed below are not managed by the Oceanography department. Other criteria may be required to pursue the minor. Students are strongly encouraged to check the catalog and with the home department of the minor for more details.

Marine Ecosystem Processes	Marine Chemistry and Geochemistry
<p><u>Biology</u></p> <p>BIOL 213 – 3 hrs. (Track elective) BIOL 214 – 3 hrs. (Track requirement) BIOL 351 – 4 hrs. (Track elective) BIOL 357 – 3 hrs. (Track requirement) OCNG 320 – 3 hrs. (BS required course)</p>	<p><u>Chemistry</u></p> <p>CHEM 227 – 3 hrs. (Track requirement) CHEM 237 – 1 hr. (Track requirement) CHEM 228 – 3 hrs. (Track requirement) CHEM 238 – 1 hr. (Track requirement) CHEM 315 – 3 hrs. (Track elective) CHEM 318 – 1 hr. (Tech. elective) CHEM 362 or CHEM 383 – 3 hrs. (Track elective) CHEM 415 or CHEM 483 – 3 hrs. (Track elective)</p>
Ocean Climate	Ocean Observing
<p><u>Mathematics</u></p> <p>MATH 152 – 4 hrs. (BS required course) MATH 251 – 3 hrs. (Track requirement) MATH 308 - 3 hrs. (Track requirement) MATH 304 – 3 hrs. (Track elective) MATH 400-499 – 3 hrs. (Tech. elective)</p> <p><u>Meteorology</u></p> <p>ATMO 201 – 3 hrs. (Track elective) ATMO 203 – 1 hr. (Track elective) ATMO 324 – 3 hrs. (Track elective) ATMO 300-399 – 3 hrs. (Tech. elective) GEOS 442 – 3 hrs. (Track elective) GEOS 470 – 3 hrs. (BS required course)</p> <p><u>Physics</u></p> <p>PHYS 206/226 – 4 hrs. (BS required course) PHYS 207/227 – 4 hrs. (BS required course) PHYS 221 – 3 hrs. (Track elective) PHYS 309 – 3 hrs. (Tech. elective) PHYS 300-499 – 3 hrs. (Tech. elective)</p>	<p><u>Meteorology</u></p> <p>ATMO 201 – 3 hrs. (Track elective) ATMO 203 – 1 hr. (Track elective) ATMO 251 – 3 hrs. (Track elective) ATMO 300-399 – 6 hrs. (Tech. electives) GEOS 470 – 3 hrs. (BS required course)</p> <p><u>Statistics</u></p> <p>STAT 211 – 3 hrs. (required course) STAT 212 – 3 hrs. (Track requirement) STAT 404 – 3 hrs. (Track elective) STAT 407 – 3 hrs. (Track elective) STAT 408 – 3 hrs. (Tech. elective – student should take MATH 304 first (pre-req), which also qualifies as a Tech. elective)</p>