

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 theme that, with the proper selection coursework, 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. (Theme elective) BIOL 214 – 3 hrs. (Theme requirement) BIOL 351 – 4 hrs. (Theme elective)* BIOL 357 – 3 hrs. (Theme requirement) OCNG 320 – 3 hrs. (BS required course)</p> <p>* CHEM 227/237 pre-req qualifies as tech electives</p>	<p><u>Chemistry</u></p> <p>CHEM 227 – 3 hrs. (Theme requirement) CHEM 237 – 1 hr. (Theme requirement) CHEM 228 – 3 hrs. (Theme requirement) CHEM 238 – 1 hr. (Theme requirement) CHEM 315 – 3 hrs. (Theme elective) CHEM 318 – 1 hr. (Tech. elective) CHEM 362 or CHEM 383 – 3 hrs. (Theme elective) CHEM 415 or CHEM 483 – 3 hrs. (Theme elective)</p>
Ocean Climate	Ocean Observing
<p><u>Mathematics</u></p> <p>MATH 152 – 4 hrs. (BS required course) MATH 251 – 3 hrs. (Theme requirement) MATH 308 – 3 hrs. (Theme requirement) MATH 304 – 3 hrs. (Theme elective) MATH 400-499 – 3 hrs. (Tech. elective)</p> <p><u>Meteorology</u></p> <p>ATMO 201 – 3 hrs. (Theme elective) ATMO 203 – 1 hr. (Theme elective) ATMO 324 – 3 hrs. (Theme elective) ATMO 300-399 – 3 hrs. (Tech. elective) GEOL 442 – 3 hrs. (Theme elective) OCNG 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. (Theme 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. (Theme elective) ATMO 203 – 1 hr. (Theme elective) ATMO 251 – 3 hrs. (Theme elective) ATMO 300-399 – 6 hrs. (Tech. electives) OCNG 470 – 3 hrs. (BS required course)</p> <p><u>Statistics</u></p> <p>STAT 211 – 3 hrs. (BS required course) STAT 212 – 3 hrs. (Theme requirement) STAT 404 – 3 hrs. (Theme elective) STAT 407 – 3 hrs. (Theme elective) STAT 408 – 3 hrs. (Tech. elective)*</p> <p>*MATH 304 pre-req qualifies as a tech elective</p>