**SF State Scholars**
*Tentative* Marine Biology + Interdisciplinary Marine and Estuarine Sciences Roadmap

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Summer</strong></td>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>BIO 230</td>
<td>BIO 240</td>
<td>SF Elective</td>
<td>BIO 355</td>
<td>BIO 337</td>
</tr>
<tr>
<td>Area A2 (ENG 114)</td>
<td>CHEM 115</td>
<td>SF Elective</td>
<td>PHYS 227 or PHYS 121/122 (8-9 units)</td>
<td>SF Elective</td>
</tr>
<tr>
<td>MATH 226</td>
<td>Area A</td>
<td>SF Elective</td>
<td>Area C</td>
<td>Area C</td>
</tr>
<tr>
<td>Area A</td>
<td>Area E</td>
<td>SF Elective</td>
<td>Area D</td>
<td>Area D</td>
</tr>
<tr>
<td>SF Elective (1 unit)</td>
<td>14 Units (14 total)</td>
<td>16 Units (30 total)</td>
<td>6 Units (36 total)</td>
<td>16 Units (88-89 total)</td>
</tr>
</tbody>
</table>

**Apply to SF Scholars**

- Completed 60 units and 16 BIO units
- 3.0 GPA

Minimum Units required for Bachelors =120
Minimum Units required for Masters = 33

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**Students must meet with their advisor prior to registering for courses. This roadmap is designed for general planning ONLY! Roadmaps for more than 5 years plan may vary please consult with your department.**

**Tentative** Marine Biology + Interdisciplinary Marine and Estuarine Sciences Roadmap

**Graduate**

- Graduate Seminar BIO 863/GEOG 857/ERTH 795/Equivalent
- Graduate core MSCI 717
- Graduate core MSCI 718
- Biological Oceanography (146-151 total)
- Graduate core MSCI 898/GEOG 857/ERTH 898/Chem 898
- Biological Oceanography (153-159 total)

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