### MARINE BIOLOGY - BS

**Program Requirements**

#### First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>CHEM 119</td>
<td>Fundamentals of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ENGL 104</td>
<td>Composition and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 147 or MATH 151</td>
<td>Calculus I for Biological Sciences or Engineering Mathematics I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MARB 101</td>
<td>Succeeding in Science</td>
<td>1</td>
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</tbody>
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**Semester Credit Hours**  14

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>BIOL 111</td>
<td>Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CHEM 120</td>
<td>Fundamentals of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MARS 102</td>
<td>Earth and Ocean Science</td>
<td>4</td>
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<tr>
<td></td>
<td>MATH 148</td>
<td>Calculus II for Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MATH 150</td>
<td>Functions, Trigonometry and Linear Systems</td>
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</table>

**Semester Credit Hours**  14

#### Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>CHEM 227</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 237</td>
<td>Organic Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MARB 215</td>
<td>Marine Zoology</td>
<td>1</td>
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<tr>
<td></td>
<td>PHYS 201</td>
<td>College Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>POLS 206</td>
<td>American National Government</td>
<td>3</td>
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</table>

**Semester Credit Hours**  15

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>CHEM 228</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 238</td>
<td>Organic Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MARB 315</td>
<td>Natural History of Vertebrates</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHYS 202</td>
<td>College Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>POLS 207</td>
<td>State and Local Government</td>
<td>3</td>
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</table>

**Semester Credit Hours**  15

#### Third Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
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<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>MARB 301</td>
<td>Genetics</td>
<td>4</td>
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<tr>
<td></td>
<td>MARB 303</td>
<td>Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Communication (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communications">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communications</a>)</td>
<td>3</td>
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<tr>
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<td>Marine biology elective</td>
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**Semester Credit Hours**  15

<table>
<thead>
<tr>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>MARB 310</td>
<td>Introduction to Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MARB 435</td>
<td>Marine Invertebrate Zoology</td>
<td>4</td>
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</tbody>
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**Semester Credit Hours**  15

#### Fourth Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>MARB 425</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MARB 430</td>
<td>Coastal Plant Ecology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>American History (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine biology elective</td>
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**Semester Credit Hours**  15

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<tbody>
<tr>
<td>Spring</td>
<td>MARB 420</td>
<td>Comparative Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>American history (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a>)</td>
<td>3</td>
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<tr>
<td></td>
<td>Creative arts (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a>)</td>
<td>3</td>
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<tr>
<td></td>
<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>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine biology elective</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Semester Credit Hours**  14

**Total Semester Credit Hours** 120

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1. Indicates required courses in the Marine Biology major. These courses will be used to compute the major GPR.
2. A grade of C or better is required before advancing to upper level courses.
3. 14 credit hours of marine biology electives selected from the following: BIOL 351, FSCI 360, MARB 300-499, MARS 305, MARS 325. Students can only select 2 mammals courses (MARB 400, MARB 401, MARB 403, or MARB 407).
4. Designated writing intensive course.

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at [http://core.tamu.edu/](http://core.tamu.edu/) for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 3-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements. The 3-hour University Core Curriculum requirement for Cultural Discourse may be met with courses used to satisfy other degree requirements. Up to 4 hours of MARB 491 and/or MARB 484 may be used as marine biology elective courses in your curriculum. Please consult with your academic advisor.