## Curriculum Requirements

### Code and Title

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSC 111</td>
<td>Introduction to Marine Science</td>
<td>3</td>
</tr>
<tr>
<td>MSC 112</td>
<td>Introduction to Marine Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>MSC 215</td>
<td>Chemical Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>MSC 230</td>
<td>Introduction to Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>MSC 301</td>
<td>Introduction to Physical Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>MSC 216</td>
<td>Chemical Oceanography Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MSC 232</td>
<td>Introduction to Marine Biology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MSC 302</td>
<td>Introduction to Physical Oceanography Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

Select two of the following:

- MSC 216 Chemical Oceanography Laboratory
- MSC 232 Introduction to Marine Biology Laboratory
- MSC 302 Introduction to Physical Oceanography Lab

Select 12 credit hours of approved electives in Marine Science.²

### Additional Required Courses

Select one of the following:

- BIL 150 General Biology
- BIL 151 General Biology Laboratory
- BIL 160 Evolution and Biodiversity
- BIL 161 Evolution and Biodiversity Laboratory
- CHM 111 Principles of Chemistry I
- CHM 112 Principles of Chemistry II
- CHM 113 Chemistry Laboratory I
- CHM 114 Chemistry Laboratory II
- ENG 105 English Composition I
- ENG 107 English Composition II: Science and Technology
- GSC 110 The Earth System
- GSC 111 Earth System History
- GSC 114 Earth Processes Lab
- GSC 260 Earth Materials
- GSC 360 Depositional and Diagenetic Systems
- GSC 380 Paleontology and Stratigraphy
- GSC 410 Environmental Geochemistry
- GSC 440 Igneous and Metamorphic Petrology
- GSC 480 Structural Geology
- GSC 482 Field Methods

Select 12 credit hours of approved electives in Marine Science.²

### Additional Electives

- Arts and Humanities Cognate Courses: 9
- People and Society Cognate Courses: 9
- 300+ Level Elective: 3
- Additional Elective: 3

Total Credit Hours: 130-131

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1. At least 6 of which must be at the 300-level or higher. MSC 204 does not satisfy the MSC elective requirement but does satisfy the Statistics requirement.
2. One course in Geological Sciences may fulfill requirements in both Marine Science and Geology.
3. Principles of Chemistry I must be passed with a grade of "C-" or higher.
4. Calculus I must be passed with a grade of "C-" or higher.
5. Option 1 is recommended for Physics.

### Suggested Plan of Study

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSC 111 Introduction to Marine Science</td>
<td>3</td>
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</table>
### B.S.M.A.S. in Marine Science / Geological Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSC 112</td>
<td>Introduction to Marine Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>GSC 110</td>
<td>The Earth System</td>
<td>3</td>
</tr>
<tr>
<td>GSC 114</td>
<td>Earth Processes Lab</td>
<td>2</td>
</tr>
<tr>
<td>CHM 111</td>
<td>Principles of Chemistry I</td>
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</tr>
<tr>
<td>CHM 113</td>
<td>Chemistry Laboratory I</td>
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<td>ENG 105</td>
<td>English Composition I</td>
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<tr>
<td>GSC 110</td>
<td>Earth System History</td>
<td>4</td>
</tr>
<tr>
<td>CHM 112</td>
<td>Principles of Chemistry II</td>
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<tr>
<td>CHM 114</td>
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<tr>
<td>ENG 107</td>
<td>English Composition II: Science and Technology</td>
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**Credit Hours** 16

### Sophomore Year

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GSC 260</td>
<td>Earth Materials</td>
<td>4</td>
</tr>
<tr>
<td>BIL 150</td>
<td>General Biology</td>
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<tr>
<td>BIL 151</td>
<td>General Biology Laboratory</td>
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<td>MTH 161</td>
<td>Calculus I</td>
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<tr>
<td>Elective #1</td>
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**Credit Hours** 16

#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MSC 215</td>
<td>Chemical Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>MSC 216</td>
<td>Chemical Oceanography Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GSC 380</td>
<td>Paleontology and Stratigraphy</td>
<td>4</td>
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<tr>
<td>MSC 204</td>
<td>Environmental Statistics</td>
<td>3</td>
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<tr>
<td>Elective #2</td>
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**Credit Hours** 16

### Junior Year

#### Fall

<table>
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<th>Credits</th>
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<tbody>
<tr>
<td>GSC 360</td>
<td>Depositional and Diagenetic Systems</td>
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<tr>
<td>MSC 230</td>
<td>Introduction to Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>MSC 232</td>
<td>Introduction to Marine Biology Laboratory¹</td>
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<tr>
<td>PHY 201</td>
<td>University Physics I for the Sciences</td>
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<tr>
<td>PHY 106</td>
<td>College Physics Laboratory I</td>
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<td>Elective #3</td>
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**Credit Hours** 16

#### Spring

<table>
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GSC 480</td>
<td>Structural Geology</td>
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<tr>
<td>GSC 482</td>
<td>Field Methods</td>
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<tr>
<td>PHY 202</td>
<td>University Physics II for the Sciences</td>
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<tr>
<td>PHY 108</td>
<td>College Physics Laboratory II</td>
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<tr>
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<tr>
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**Credit Hours** 17

### Senior Year

#### Fall

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GSC 410</td>
<td>Environmental Geochemistry</td>
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<tr>
<td>GSC 561</td>
<td>Colloquium - Current Topics in the Geosciences</td>
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<tr>
<td>MSC Course</td>
<td></td>
<td>3</td>
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<tr>
<td>MSC Course</td>
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<tr>
<td>Elective #5</td>
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**Credit Hours** 16

#### Spring

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MSC 301</td>
<td>Introduction to Physical Oceanography</td>
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<tr>
<td>GSC 440</td>
<td>Igneous and Metamorphic Petrology</td>
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<td>MSC Course</td>
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<td>Elective #7</td>
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**Credit Hours** 16

### Summer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GSC 580</td>
<td>Summer Field Geology</td>
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</tbody>
</table>

**Credit Hours** 4

### Total Credit Hours

130

* 8 elective courses must include:
  - 3 Arts and Humanities Cognate courses
  - 3 People and Society Cognate courses
  - 1 Course (3 credits) at the 300+ level

¹ Students must take two laboratories from MSC 216, MSC 232, MSC 302.