This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding “critical courses” for this particular Program of Study.

<table>
<thead>
<tr>
<th>Critical</th>
<th>Course Subject and Title</th>
<th>Credit Hours</th>
<th>Min. Grade</th>
<th>Major GPA</th>
<th>Code</th>
<th>Prerequisites</th>
<th>Notes</th>
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<tr>
<td>Semester One (15 Credit Hours)</td>
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<tr>
<td>!</td>
<td>MSCI 101 The Ocean Environment</td>
<td>4</td>
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<td>MATH 141 Calculus I(^1)</td>
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<td>CHEM 111 &amp; 111L – General Chemistry I</td>
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<td>Semester Two (18-19 Credit Hours)</td>
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<td>ENGL 101 Critical Reading and Composition</td>
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<td>MSCI 102 The Living Ocean</td>
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<td>CHEM 112 &amp; 112L – General Chemistry II</td>
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<td>ENGL 102 Rhetoric and Composition</td>
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<td></td>
<td>MSCI 311 Biology of Marine Organisms</td>
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<td>PHYS 201 &amp; 201L – General Physics I or PHYS 211 &amp; 211L – Essentials of Physics I</td>
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<td>CHEM 333 – Organic Chemistry I</td>
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<td>BIOL 301 Ecology &amp; Evolution (with optional lab)(^9)</td>
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<td>STAT 515 Statistical Methods I(^8)</td>
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<td>CSCE 102 General Applications Programming(^8)</td>
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<td>Semester Six (16-17 Credit Hours)</td>
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<td>MSCI Bio-Oceanography Elective(^6) (400-level and above)</td>
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<td>BIOL 302 Cell &amp; Molecular Biology (with optional lab)(^8)</td>
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<tr>
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<td>Social Science</td>
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<td>Humanities or Fine Arts</td>
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<td>Semester Seven (13 Credit Hours)</td>
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<td>BIOL 303 Fundamental Genetics</td>
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<td>MSCI 505 Senior Seminar</td>
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<td>Carolina Core Requirement(^4) or Approved Elective(^11)</td>
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<td>Semester Eight (12-16 Credit Hours)</td>
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<td>MSCI Elective (300-level and above)(^13)</td>
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<td></td>
<td>MSCI Elective (300-level and above)(^13) –only if needed to meet MSCI major requirements(^11)</td>
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<td></td>
<td>Approved Electives(^11)</td>
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</tbody>
</table>

**Notes:**
- Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation.
- See course description in [Bulletin](https://example.com).

**Semester Breaks:**
- Semester Three (17 Credit Hours)
- Semester Five (15-16 Credit Hours)
- Summer (0-4 Credit Hours)
- Semester Seven (13 Credit Hours)
- Semester Eight (12-16 Credit Hours)
Graduation Requirements Summary

<table>
<thead>
<tr>
<th>Minimum Total Hours</th>
<th>Major Requirements Hours</th>
<th>College &amp; Program Requirements Hours</th>
<th>Carolina Core Hours</th>
<th>Minimum Overall GPA</th>
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<tbody>
<tr>
<td>128</td>
<td>36</td>
<td>46-58</td>
<td>34-46</td>
<td>2.000</td>
</tr>
</tbody>
</table>

1. Regardless of individual course grades, students must maintain a minimum 2.000 cumulative USC/overall GPA.
2. Some colleges require a minimum GPA for major courses. Courses indicated below are included in the major GPA for this program of study.
3. Students who place into MATH 115 will be required to successfully complete it with a grade of C or better before taking MATH 141. MATH 115 can be used as an approved elective. Students who start with MATH 115 should use the following sequence for the first three semesters:

<table>
<thead>
<tr>
<th>Semester One</th>
<th>Semester Two</th>
<th>Semester Three</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>ENGL 102</td>
<td>MSCI 101</td>
</tr>
<tr>
<td>MSCI 101</td>
<td>MSCI 102</td>
<td>MATH 142</td>
</tr>
<tr>
<td>MATH 115</td>
<td>MATH 141</td>
<td>CHEM 112 &amp; 112L</td>
</tr>
<tr>
<td>History</td>
<td>CHEM 111 &amp; 111L</td>
<td>PHYS 201 &amp; 201L</td>
</tr>
<tr>
<td>UNIV 101 or other Carolina Core Requirement</td>
<td>Foreign Language or other Carolina Core Req.</td>
<td></td>
</tr>
</tbody>
</table>

4. The Carolina Core provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.
5. Students in the College of Arts and Sciences are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding Foreign language placement score.
6. The College of Arts and Sciences requires one U.S. History and one non-U.S. History course, both of which must be chosen from the approved Carolina Core GHS courses. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.
7. PHYS 212 may be used as a major elective, in which case one less MSCI Elective would be required.
8. Either BIOL 301L or BIOL 302L must be taken.
9. Students may choose to take MSCI 305 in place of CSCE 102 or MSCI 599 (Data Analysis section only) in place of STAT 515 by petition. If students use either MSCI 305 or 599 for the Carolina Core ARP requirement, then those hours cannot also be included in the 36 hours of major courses.
10. The major elective will most likely be selected from biology or biologically-oriented MSCI courses, but may be any course acceptable for major credit at the 400 level or above.
11. No courses of a remedial, developmental, skill-acquiring, or vocational nature may apply as credit toward degrees in the College of Arts and Sciences. The College of Arts and Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the College of Arts and Sciences in Flinn Hall.
12. All MSCI majors are required to undertake a minimum of three weeks of marine science field effort. Possibilities include MSCI 460, semester or summer internship, REU, semester at sea, or faculty-sponsored field research or cruise. Students who do not select MSCI 460, must submit a petition for an alternative field experience to the Undergraduate Director. If the alternative is approved, the student must submit a short (2-3 page minimum) report at the completion of the experience to the Undergraduate Director for approval. Upon approval, the Undergraduate Director will notify the Dean’s office of the substitution. Students will not normally receive course credit hours for their alternative field experience, but may combine this requirement with independent study credit as appropriate. If no course credit hours are associated with the field experience, the student will be required to take an additional Marine Science elective (300-level and above). Some students may complete MSCI 460 in the summer following senior year & graduate in August.
13. In addition to the required 13 hours of major coursework, Marine Science majors must select 23 hours of Marine Science electives (which include the required Biological Oceanography Concentration courses) in consultation with a faculty advisor for a total of 36 major hours. The elective courses listed in the Undergraduate Bulletin for Marine Science are commonly selected, but any course which is eligible for cognate credit in the College of Arts and Sciences can potentially be a major course in Marine Science. The determination of major courses in this interdisciplinary program is the result of consultation between the student and an advisor.

Program Notes:
- ENGL 101 and ENGL 102 must be completed in the student’s first 60 semester hours of work in order for these courses to be credited toward graduation. MSCI 101 and MSCI 102 must be completed in the first year in order to stay on track with subsequent Marine Science courses and ensure a timely graduation. Other courses identified as “critical” must be completed before the beginning of the student’s 5th major semester.
- Marine Science majors may enroll in the following courses a maximum of two times to earn the required grade of C or higher: MATH through MATH 142, CHEM 111/111L, CHEM 112/112L, PHYS 201/201L, or PHYS 211/211L, PHYS 202/202L or PHYS 212/212L. For purposes of this standard of progression, withdrawal with a W does not constitute enrollment. These courses, in addition to MSCI 101 and MSCI 102, must be completed before the beginning of the student’s third academic year (fifth major semester) as a marine science major.
- A maximum of 10 semester hours of a combination of independent study, seminar, and undergraduate research courses may count in the 36 hours of major credit required for the Marine Science major.
- The last 30 credit hours toward your degree must be earned in residence at the University of South Carolina-Columbia.

University Requirements: Bachelor’s degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the Carolina Core page on the University website.

Codes:
- CC Carolina Core
- CC-AIU Carolina Core-Aesthetic and Interceptive Understanding
- CC-ARP Carolina Core-Analytical Reasoning and Problem-Solving
- CC-CMS Carolina Core-Efficient, Engaged, and Persuasive Communication: Spoken Component
- CC-CMW Effective, Engaged, and Persuasive Communication: Written Component
- CC-CPL Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language
- CC-GHS Carolina Core – Historical Thinking
- CC-GSS Carolina Core – Social Sciences
- CC-IV Carolina Core – Information Literacy
- CC-INT Carolina Core – Integrative Course
- CC-SCI Carolina Core – Scientific Literacy
- CC-PR Carolina Core – Values, Ethics, and Social Responsibility

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.