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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<tbody>
<tr>
<td><strong>Semester One (16-17 Credit Hours)</strong></td>
<td>! ENGL 101 Critical Reading and Composition</td>
<td>3</td>
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<tr>
<td></td>
<td>MATH 141 Calculus I¹</td>
<td>4</td>
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<td>MATH 112, 115, 116 or Math placement test score</td>
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<tr>
<td></td>
<td>STAT 515 Statistical Methods I⁴</td>
<td>3</td>
<td>C</td>
<td>MR</td>
<td>MATH 122 or 141; or MATH 111 and any statistics course</td>
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<td></td>
<td>Foreign language³ or other Carolina Core Requirement⁵</td>
<td>3-4</td>
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<td>CC-GFL</td>
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<td>UNIV 101 The Student in the University</td>
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<td><strong>Semester Two (16 Credit Hours)</strong></td>
<td>! ENGL 102 Rhetoric and Composition</td>
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<tr>
<td></td>
<td>MATH 142 Calculus II</td>
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<td></td>
<td>STAT 516 Statistical Methods II (offered spring &amp; summer only)</td>
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<td>STAT 515, 509, 512 or equivalent</td>
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<tr>
<td></td>
<td>Carolina Core Requirement⁶</td>
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<td><strong>Semester Three (15-17 Credit Hours)</strong></td>
<td>MATH 241 Vector Calculus</td>
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<td>MATH 142</td>
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<td>STAT 511 Probability (cross-listed MATH 511)</td>
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<td>CSCE 145 Algorithmic Design I or CSCE 206 Scientific Applications Programming</td>
<td>3-4</td>
<td>C</td>
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<td>Prereq or Coreq: MATH 111 or 115 (CSCE 145 only); MATH 122 or 141 (CSCE 206 only)</td>
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<td><strong>Semester Four (15 Credit Hours)</strong></td>
<td>STAT 512 Mathematical Statistics (offered spring &amp; summer only)</td>
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<td>STAT/MATH 511</td>
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<td></td>
<td>STAT Major Elective (500-level or above)</td>
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<td></td>
<td>History⁹</td>
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<td><strong>Semester Five (15-16 Credit Hours)</strong></td>
<td>STAT 513 Theory of Statistical Inference (offered fall only)</td>
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<td>STAT 512</td>
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<td>STAT 540 Computing in Statistics (offered fall only)</td>
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<td>STAT 515, 509, 512, or equivalent</td>
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<td>Cognate or Minor Course³</td>
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<td><strong>Semester Six (15 Credit Hours)</strong></td>
<td>STAT Major Elective (500-level or above)</td>
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<td>Humanities or Fine Arts</td>
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<td>Carolina Core Requirement⁶ or Approved Elective¹⁰</td>
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<td>Carolina Core Requirement⁶ or Approved Elective¹⁰</td>
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<td><strong>Semester Seven (12 Credit Hours)</strong></td>
<td>STAT Major Elective (500-level or above)</td>
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<td></td>
<td>MATH 344 Applied Linear Algebra¹¹</td>
<td>3</td>
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<td>PR</td>
<td>MATH 142</td>
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<td></td>
<td>ENGL 462 Technical Writing or ENGL 463 Business Writing</td>
<td>3</td>
<td>C</td>
<td>PR</td>
<td>ENGL 101 &amp; 102; &amp; one course from ENGL 270-292 (ENGL 462 only)</td>
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<td>Cognate or Minor Course³</td>
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<td><strong>Semester Eight (12-15 Credit Hours)</strong></td>
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<td>Minor Course³ or Approved Elective¹⁰</td>
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<td>C (minor)</td>
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<td>Approved Elective¹⁰</td>
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<td></td>
<td>Approved Elective¹⁰</td>
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<td>PR</td>
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<td></td>
<td>Approved Elective¹⁰ (only if needed to meet hours to graduate)</td>
<td>3</td>
<td></td>
<td>PR</td>
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</tbody>
</table>

¹ Class must be taken as an H or AP course.
² Class must be taken as an H, AP, or BC course.
³ Offered fall or spring semester.
⁴ Offered summer only.
⁵ Offered spring only.
⁶ Offered fall only.
⁷ Offered summer only.
⁸ Offered spring only.
⁹ Offered fall only.
¹⁰ Offered spring or fall only.
¹¹ Offered spring or fall only.
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>120</td>
<td>27</td>
<td>48-60</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 GPA.
2. Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study.
3. Students who place into MATH 115 will be required to take it before proceeding to MATH 141 and should also register for STAT 201 in the first semester and STAT 515 in the second semester. Students who have previously completed STAT 509 will not be required to take STAT 515.
4. Students who placed into MATH 141 and have no previous STAT course will take STAT 515 in the second semester.
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 Carolina Core provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.
7. If MATH 142 is not taken by the second semester, then it must be taken over the summer.
8. The cognate is intended to support the course work in the major. The cognate must consist of twelve hours of courses at the advanced level, outside of, but related to the major. In place of a cognate, a student may choose a minor consisting of at least 18 credit hours of courses concentrated in one area that follow a structured sequence. A second major eliminates the minor/cognate requirement.
9. 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.
10. 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.
11. Students who have previously completed MATH 544 will not be required to take MATH 344.

Program Notes:
- Courses identified as “critical” must be completed in the student’s first 60 semester hours of work in order for these courses to be credited toward graduation.
- To be retained in the program, a student must obtain a grade of C or higher in at most two attempts in all mathematics, computer science, and statistics courses required for graduation.
- 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.

<table>
<thead>
<tr>
<th>Codes</th>
<th>Descriptions</th>
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<td>CC</td>
<td>Carolina Core</td>
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<tr>
<td>CC-AIU</td>
<td>Carolina Core-Aesthetic and Interpretive Understanding</td>
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<tr>
<td>CC-ARP</td>
<td>Carolina Core-Analytical Reasoning and Problem-Solving</td>
</tr>
<tr>
<td>CC-CMS</td>
<td>Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component</td>
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<tr>
<td>CC-CMW</td>
<td>Effective, Engaged, and Persuasive Communication: Written Component</td>
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<tr>
<td>CC-GFL</td>
<td>Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language</td>
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<tr>
<td>CC-GHS</td>
<td>Carolina Core – Historical Thinking</td>
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<td>CC-GSS</td>
<td>Carolina Core – Social Sciences</td>
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<td>CC-INF</td>
<td>Carolina Core – Information Literacy</td>
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<td>CC-INT</td>
<td>Carolina Core – Integrative Course</td>
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<td>CC-SCI</td>
<td>Carolina Core – Scientific Literacy</td>
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<td>CC-VSR</td>
<td>Carolina Core – Values, Ethics, and Social Responsibility</td>
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<td>Major Requirement</td>
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<td>Program Requirement</td>
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</table>

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.