### Fall Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Pre-requisite</th>
<th>Core Area A</th>
<th>Major</th>
<th>Note</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1101*</td>
<td>Composition I</td>
<td>3</td>
<td></td>
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<td>*A grade of a “C” or better must be earned for this course</td>
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<td>MATH 1113*</td>
<td>Pre-Calculus</td>
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<td>CHEM 1211*</td>
<td>Principles of Chemistry I**</td>
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<td>CHEM 1211L*</td>
<td>Principles of Chemistry I Lab</td>
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<td>COST 1103*</td>
<td>Area F</td>
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<tr>
<td>MSCI 1810K*</td>
<td>Marine Biology</td>
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### Spring Courses
<table>
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<tr>
<th>Course</th>
<th>Name</th>
<th>Hours</th>
<th>Pre-requisite</th>
<th>Core Area A</th>
<th>Major</th>
<th>Note</th>
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<tr>
<td>ENGL 1102*</td>
<td>Composition II</td>
<td>3</td>
<td>Pre-requisite: ENGL 1101</td>
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<tr>
<td>MATH 2101*</td>
<td>Calculus I</td>
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<td>Pre-requisite: MATH 1113</td>
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<td>BIOL 1107*</td>
<td>Principles of Biology I</td>
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<td>BIOL 1107L*</td>
<td>Principles of Biology I Lab</td>
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<td>MSCI 2010K*</td>
<td>Area F</td>
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</table>

### Total Credits
- **Fall**: 16
- **Spring**: 15
- **Total**: 31

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### Notes
- Student should know career track options and discuss with mentors.
- Student should have completed a job shadowing, work, or volunteer experience relevant to their career track.
- Students should have completed any required admissions testing for their career track (GRE, LSAT, MCAT, PCAT, DAT).
- Application completed for further graduate/professional studies relevant to your career track.

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### Sophomore

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### Junior

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### Senior

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**Total Hours Required for this Degree Program: 120**
Program Map: Marine Sciences
Department of Marine and Environmental Sciences, College of Sciences and Technology

Core Curriculum (Programmed Preferred Options in Bold)

Area B – Institutional Options 5 hrs
i. AFRS 1501 Survey of African-American Experience 2 hrs
ii. HUMN 1201 Critical Thinking & Communication 3 hrs

Area C – Humanities/Fine Arts, and Ethics 6 hrs,

1. Select one of the following:
   i. ENGL 2111 World Literature I 3 hrs
   ii. ENGL 2112 World Literature II 3 hrs
   iii. ENGL 2121 British Literature I 3 hrs
   iv. ENGL 2122 British Literature II 3 hrs
   v. ENGL 2131 American Literature I 3 hrs
   vi. ENGL 2132 American Literature II 3 hrs
   vii. ENGL 2222 African American Literature 3 hrs
   viii. PHIL 2010 Introduction to Philosophy 3 hrs
   ix. PHIL 2030 Introduction to Ethics 3 hrs

2. Select one of the following:
   i. ARTS 1101 Introduction to Visual Art 3 hrs
   ii. DNCE 2010 Dance Appreciation 3 hrs
   iii. ENGL 2521 Introduction to Film 3 hrs
   iv. HUMN 2011 Humanities 3 hrs
   v. MUSC 1101 Introduction to Music 3 hrs
   vi. THEA 2101 Introduction to Theatre 3 hrs

Area D – Natural Sciences, Math & Technology 10 hrs

1. Select one of the following:
   i. BIOL 1107 Principles of Biology I 3 hrs
   ii. BIOL 1108 Principles of Biology II 3 hrs
   iii. CHEM 1211 Principles of Chemistry I 3 hrs
   iv. CHEM 1212 Principles of Chemistry II 3 hrs
   v. CISM 1130 Computer Applications 3 hrs
   vi. CSCI 1130 Computer Applications 3 hrs
   vii. CSCI 1301 Computer Science I 3 hrs
   viii. ENVS 1140 Environmental Issues 3 hrs

2. Select two of the following lab sciences in sequence:
   i. BIOL 1107/1107L Principles of Biology I 4 hrs
   ii. BIOL 1108/1108L Principles of Biology II 4 hrs
   iii. CHEM 1211/1211L Principles of Chemistry 4 hrs
   iv. CHEM 1212/1212L Principles of Chemistry 4 hrs
   v. PHYS 1111K Introductory Physics I 4 hrs
   vi. PHYS 1112K Introductory Physics II 4 hrs
   vii. PHYS 2211K Principles of Physics I 4 hrs
   viii. PHYS 2212K Principles of Physics II 4 hrs

Area E – Social Science 12 hrs

1. Select one of the following:
   i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs
   ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs

2. Select two of the following:
   i. AFRS 2000 Introduction to Africana Studies 3 hrs
   ii. ANTH 1101 Introduction to Anthropology 3 hrs
   iii. ECON 2105 Principles of Macroeconomics 3 hrs
   iv. GEOG 1101 Introduction to Human Geography 3 hrs
   v. HIST 1111 World Hist to Early Modern Times 3 hrs
   vi. HIST 1112 World History Early Modern Times to Pre 3 hrs
   vii. POLS 2401 Global Issues 3 hrs
   viii. PSYC 1101 Intro to General Psychology 3 hrs

   ix. PSYC 2103 Human Growth & Development 3 hrs
   x. SOCI 1101 Introduction to Sociology 3 hrs
   xi. SOCI 1160 Social Problems 3 hrs

Program Description

The mission of the SSU Marine Sciences Program is to provide vital research, education, and outreach programming to develop a technically qualified, intellectually thoughtful, and ethnically diverse community of ocean scientists. Students are trained in research and science communication throughout their studies and develop technical skill sets for competitive job placement. The university is adjacent to a salt marsh tidal creek, has two docks, and multiple boats for instruction and research.

Major Guidelines

Marine Science Electives (6 hours)
- MSCI 3401K Marine Invertebrate Zoology 4 hrs
- MSCI 3501 Ichthyology 4 hrs
- MSCI 4401K Marine Sediments 4 hrs
- MSCI 4447 Marine Mammalogy 3 hrs

Marine Science Tools Electives (6 hours)
- MSCI 2701K Aquarium Systems I 4 hrs
- MSCI 2702K Aquarium Systems II 4 hrs
- MSCI 3560 Big Data Analysis 3 hrs
- MSCI 3702 Intro to GIS 3 hrs
- MSCI 4572 Oceanographic Instrumentation 3 hrs

Math/Science Electives (3 hours)
- PHYS 1112K/2212K Intro/Principles Physics II 4 hrs
- MATH 2111 Calculus II 4 hrs

Other Electives (17 hours)
- COST Courses including 2 MSCI courses. Extra hours from the elective categories listed above also count here, for a total of 17 hours. Note that 39 hours of 3000/4000 level courses are required for the degree and that limits use of 1000/2000 level elective options.