## Option in Actuarial Science

### Freshman

<table>
<thead>
<tr>
<th></th>
<th>Fall Hours</th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1100 English Composition I</td>
<td>3</td>
<td>ENGL 1120 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Core Science</td>
<td>4</td>
<td>Core Science</td>
<td>4</td>
</tr>
<tr>
<td>Core History</td>
<td>3</td>
<td>Core History or Literature</td>
<td>3</td>
</tr>
<tr>
<td>Core Humanities</td>
<td>3</td>
<td>COMP 1200 Introduction to Computing for Engineers and Scientists</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Hours: 17**

### Sophomore

<table>
<thead>
<tr>
<th></th>
<th>Fall Hours</th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Literature</td>
<td>3</td>
<td>Core Social Science or Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2020 Principles of Microeconomics</td>
<td>3</td>
<td>ECON 2030 Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2810 Fundamentals Of Accounting</td>
<td>3</td>
<td>MATH 2790 Mathematics of Interest Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2630 Calculus III</td>
<td>4</td>
<td>MATH 2650 Linear Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2660 Topics in Linear Algebra</td>
<td>3</td>
<td>MATH 3100 Introduction to Advanced Mathematics</td>
<td>3</td>
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</tbody>
</table>

**Total Hours: 16**

### Junior

<table>
<thead>
<tr>
<th></th>
<th>Fall Hours</th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Social Science</td>
<td>3</td>
<td>FINC 3610 Principles of Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>Core Fine Arts</td>
<td>3</td>
<td>Statistics Requisite</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3600 Probability and Statistics I</td>
<td>3</td>
<td>MATH 4820 Actuarial Seminar in Probability</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4790 Actuarial Seminar in the Mathematics of Finance</td>
<td>3</td>
<td>Math Electives</td>
<td>3</td>
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</table>

**Total Hours: 16**

### Senior

<table>
<thead>
<tr>
<th></th>
<th>Fall Hours</th>
<th>Spring</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FINC 3630 Advanced Business Finance</td>
<td>3</td>
<td>MATH 5810 Actuarial Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5000 Math Modeling Continuous</td>
<td>3</td>
<td>Math Electives</td>
<td>6</td>
</tr>
<tr>
<td>MATH 5800 Actuarial Mathematics I</td>
<td>3</td>
<td>Electives</td>
<td>3</td>
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</tbody>
</table>

**Total Hours: 16**

**Total Hours: 120**

1. Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the Bulletin.
2. Students who choose a HIST sequence other than HIST 1010 and HIST 1020 should talk to an advisor about CORE SOC SCI choices.
If a LIT sequence is chosen, this course must be a CORE SOC SCI. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.

Core Science: One of the sequences PHYS 1600/PHYS 1610, BIOL 1020/BIOL 1030, CHEM 1030/CHEM 1040 with labs, or GEOL 1100/GEOL 1110.

MATH or STAT courses at the 3000 level or higher; no more than one 3000-level course. Subject to advisor’s approval.

Any course that will serve as the statistics prerequisite for FINC 3630. See advisor for approved courses, currently STAT 2610 or STAT 3610.