

# Actuarial Science Option

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## Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I		3 ENGL 1120 English Composition II	3
Core History		3 Core Science <sup>3</sup>	4
Core Social Science		3 Core History or Literature <sup>1</sup>	3
Core Humanities		3 COMP 1200 Introduction to Computing for Engineers and Scientists	2
<b>MATH 1610 Calculus I</b>		<b>4 MATH 1620 Calculus II</b>	<b>4</b>
	<b>16</b>		<b>16</b>

## Sophomore

Fall	Hours	Spring	Hours
Core Science <sup>3</sup>		4 Core Social Science or Humanities <sup>2</sup>	3
ECON 2020 Principles of Microeconomics		3 ECON 2030 Principles of Macroeconomics	3
ACCT 2810 Fundamentals Of Accounting		3 <b>MATH 2790 Mathematics of Interest Theory</b>	<b>3</b>
<b>MATH 2630 Calculus III</b>		<b>4 MATH 2650 Linear Differential Equations</b>	<b>3</b>
<b>MATH 2660 Topics in Linear Algebra</b>		<b>3 MATH 3100 Introduction to Advanced Mathematics</b>	<b>3</b>
	<b>17</b>		<b>15</b>

## Junior

Fall	Hours	Spring	Hours
Core Literature		3 FINC 3610 Principles of Business Finance	3
Core Fine Arts		3 Statistics Requisite <sup>5</sup>	3
<b>STAT 3600 Probability and Statistics I</b>		<b>3 MATH 4820 Actuarial Seminar in Probability</b>	<b>3</b>
<b>MATH 4790 Actuarial Seminar in the Mathematics of Finance</b>		<b>3 Math Electives<sup>4</sup></b>	<b>3</b>
Electives		4 Electives	4
	<b>16</b>		<b>16</b>

## Senior

Fall	Hours	Spring	Hours
FINC 3630 Advanced Business Finance		3 <b>MATH 5810 Actuarial Mathematics II</b>	<b>3</b>
<b>MATH 5000 Math Modeling Continuous</b>		<b>3 Math Electives<sup>4</sup></b>	<b>6</b>
<b>MATH 5800 Actuarial Mathematics I</b>		3 Electives	3
Electives		3 UNIV 4AA0 Creed to Succeed	0
	<b>12</b>		<b>12</b>

**Total Hours: 120**

<sup>1</sup> 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*.

<sup>2</sup> If a LIT sequence is chosen, this course must be a CORE SOC SCI. If a HIST sequence is chosen, this course must be CORE HUMANITIES.

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

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

5 Any course that will serve as the statistics prerequisite for FINC 3630. See advisor for approved courses, currently  
BUAL 2600 or STAT 2010 or STAT 2017 or STAT 2510 or STAT 2610 or STAT 3010 or STAT 3610.