**Bachelor of Science**

**Major: Actuarial Science**

*Students in this major will complete a minimum of 121 hours outlined as follows.*

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| **General Education Requirements** |
| **Requirement** | **Course Options** | **Hours** |
| GE Launch Seminar | ***General Education Seminar*** | 1 |
| Writing and Information Literacy | ***Student Choice\**** | 3 |
| Mathematical & Quantitative Reasoning/Data Analysis  | ***Student Choice\**** | 5 |
| Literary, Visual and Performing Arts  | ***Student Choice***  | 3 |
| Historical & Cultural Studies  | ***Student Choice***  | 3 |
| Natural Science  | ***Student Choice*** | 4-5 |
| Social & Behavioral Sciences  | ***Student Choice\**** | 3 |
| Race, Ethnic and Gender Diversity | ***Student Choice*** | 3 |
| Theme**: Citizenship for a Diverse & Just World** a | ***Student Choice***  | 4-6 |
| Theme: **Student Choice** a | ***Student Choice***  | 4-6 |
| GE Reflection | ***Understanding a Diverse & Just World*** | 1 |
| **General Education Credit Hours:** | **33-39** |

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| **Major Supporting Courses****\*** The following courses are prerequisites and/or corequisites to this major and can also fulfill certain GE Requirements above.  |
| **Course (hrs)** | **GE Category or Course Title** |
| **Math 1151 & 1152 (10)** | Mathematical & Quantitative Reasoning/Data Analysis |
| **Econ 2001 & 2002 (6)** | Social & Behavioral Sciences |
| **CSE 2111 or****CSE 1222 or 1223 (3)** | Spreadsheets and Databases orComputer Programming in C++/Java |
| **ACCTMIS 2000 (3)** | Foundations of Accounting/Intro to Accounting I & II |
| **Comm 2367 or****Comm 2110 or****Comm 2131 (3)** | Persuasive CommunicationPrinciples of Effective Public SpeakingBusiness and Professional Speaking |
| **Math 1295 (1)** | Math Seminar |

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| **College/Degree Requirements**  |
| **Requirement** | **Course Options** | **Hours** |
| World Language\* |  **1101** | 4 |
|  |  **1102 or 1155** |  4 |
|  |  **1103** | 4 |
| ASC 1100.xx | **University Survey** | 1 |
| **\*Based upon student’s language placement Credit Hours:** | **1-13** |

a Students complete either a 4-credit course or two 3-credit courses in each of two General Education Theme areas: Citizenship for a Diverse & Just World (required), and the student’s choice of available GE Themes. If any major-required courses are identified as a GE Theme course, one course in each GE Theme area may double count in the GE and major hours. Theme courses are identified with a v symbol.

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| **Major Coursework** |
| **Course** | **Title** | **Hours**  |
| Math 2153 | Calculus III | 4 |
| Math 2568 | Linear Algebra | 3 |
| Math 4530/Stat 4201 | Probability/Statistics I | 3/4 |
| Stat 4202 | Statistics II | 4 |
| Math 3588 | Practicum in Actuarial Science | 3 |
| Math 3618 | Theory of Interest | 3 |
| BusFin 3120 | Foundations of Finance | 3 |
| *Choose 1 course:*English 3304English 3305 | Business and Professional WritingTechnical Writing | 3 |
| *Choose 3 courses:*Math 5630 Math 5631Math 5632Math 5633 Math 5634Math 5637 |  Life ContingenciesLife ContingenciesFinancial Mathematics for ActuariesLoss ModelsLoss ModelsTopics in Risk Modeling  |  9 |
| **Credit Hours:** | 35-36 |

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| General Education | **33-39** |
| College/Degree Requirements  | **1-13** |
| \*Major Pre-Requisite Courses  | **15** |
| Major  | **35-36** |
| Open Electives | **19-37** |
| **Minimum Total Credit Hours**  | **121** |

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| **Embedded Literacies:** * Math 3618 Theory of Interest – embedded technology
* English 3304 Business and Professional Writing – embedded writing
* Stat 4202 Statistics II – embedded data
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