

**Southern Illinois University Edwardsville**  
**BACHELOR OF ARTS - MATHEMATICAL STUDIES: ACTUARIAL SCIENCE**

This guide provides only a suggested course of study and should be used in consultation with an adviser and the SIUE Undergraduate Catalog available online at [www.siu.edu/registrar/](http://www.siu.edu/registrar/).

YEAR	FALL	SPRING		
1	MATH 150 Calculus I ECON 111 Macroeconomics (Intro SS) ENG 101 English Composition I Foreign Language 101 Intro Fine Arts & Humanities	5 3 3 4 3 <hr style="width: 100%;"/> 18	MATH 152 Calculus II CS 140 Introduction to Computing I ECON 112 Microeconomics (Dist SS) ENG 102 English Composition II Foreign Language 102 (IC)	5 4 3 3 4 <hr style="width: 100%;"/> 19
2	MATH 223 Logic & Math Reasoning MATH 250 Calculus III ACCT 200 Fund of Financial Accounting PHYS 151 University Physics I (Intro NSM) PHYS 151L University Physics Lab I	3 4 3 4 1 <hr style="width: 100%;"/> 15	MATH 305 Differential Equations I MATH 321 Linear Algebra I MATH 350 Introduction to Analysis ACCT 210 Managerial Accounting Intro GENERAL EDUCATION	3 3 3 3 3 <hr style="width: 100%;"/> 15
3	MATH 340 Theory of Interest STAT 480a Introduction to Math Statistics FIN 320 Financial Mgmt & Decision Making Interdisciplinary Studies (IS) Intro GENERAL EDUCATION	3 3 3 3 3 <hr style="width: 100%;"/> 15	OR 441 Operations Research: Stochastic Models STAT 480b Introduction to Math Statistics STAT 486 Actuarial Mathematics FIN 431 Derivative Securities Dist Natural Sciences & Mathematics	3 3 3 3 3 <hr style="width: 100%;"/> 15
4	MATH 465 Numerical Analysis MATH 498 Senior Seminar FIN 420 Problems in Corporate Finance MATH, STAT, or OR ELECTIVE++ Intergroup Relations (IGR)+	3 2 3 3 3 <hr style="width: 100%;"/> 14	MATH 499 Senior Project STAT 482 Regression Analysis MATH, STAT, or OR ELECTIVE++ Dist Fine Arts & Humanities ELECTIVE	3 2 3 3 2 <hr style="width: 100%;"/> 13

+ Course taken to fulfill this requirement may also satisfy another General Education requirement. Refer to the SIUE Undergraduate Catalog for a list of approved courses.

++ Students may also choose from STAT 478, 485; OR 442; or MATH 466.

**Declaring an Actuarial Science Major:** To declare a major in Actuarial Science, it is necessary to have:

1. Completed all Academic Development courses required by the University;
2. Completed any required courses to address high school deficiencies;
3. Satisfied one of the following:
  - a) Completed MATH 120 & 125 or mathematics courses having these courses as prerequisites (or equivalent courses at another accredited institution of higher education), have a grade point average of 2.0 or higher in all University mathematics courses, and have a grade point average of 2.0 or higher in all University courses taken;
  - b) Completed in high school, seven semesters of University preparatory mathematics courses including a course in trigonometry, and have no grade lower than a C in those courses.

For further information, contact the Mathematics and Statistics Department, SL 1314, 650-2382.