

Southern Illinois University Edwardsville
BACHELOR OF SCIENCE - 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/.

YEAR	FALL	SPRING	
1	MATH 150 Calculus I ECON 111 Macroeconomics (Intro SS) ENG 101 English Composition I Intro Fine Arts & Humanities PHIL 106 Critical Thinking or MATH 106 Deductive Reasoning	5 MATH 152 Calculus II 3 CS 140 Introduction to Computing I 3 ECON 112 Microeconomics (Dist SS) 3 ENG 102 English Composition II 3 SPC 103 Interpersonal Communication (IGR)^ <hr style="width: 50px; margin-left: auto; margin-right: 0;"/> 17	5 4 3 3 3
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 MATH 305 Differential Equations I 4 MATH 321 Linear Algebra I 3 MATH 350 Introduction to Analysis 4 ACCT 210 Managerial Accounting 1 Intro GENERAL EDUCATION <hr style="width: 50px; margin-left: auto; margin-right: 0;"/> 15	3 3 3 3 3
3	MATH 340 Theory of Interest STAT 480a Intro to Math Statistics FIN 320 Financial Mgmt & Decision Making Interdisciplinary Studies (IS) Intro GENERAL EDUCATION	3 OR 441 Operations Research: Stochastic Models 3 STAT 480b Intro to Math Statistics 3 STAT 486 Actuarial Mathematics 3 FIN 431 Derivative Securities 3 Dist Natural Sciences & Mathematics <hr style="width: 50px; margin-left: auto; margin-right: 0;"/> 15	3 3 3 3 3
4	MATH 465 Numerical Analysis MATH 498 Senior Seminar FIN 420 Problems in Corporate Finance MATH, STAT, or OR ELECTIVE++ Dist Fine Arts & Humanities	3 MATH 499 Senior Project 2 STAT 482 Regression Analysis 3 MATH, STAT, or OR ELECTIVE++ 3 International Issues/International Culture (II/IC)+ 3 ELECTIVE <hr style="width: 50px; margin-left: auto; margin-right: 0;"/> 14	3 2 3 3 4

^ If SPC 104 or 105 is taken instead of SPC 103, then a course from the list of Intergroup Relations courses in the current SIUE catalog must also be taken.

+ 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, STAT 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.