

**Southern Illinois University Edwardsville**  
**BACHELOR OF SCIENCE – MATHEMATICAL STUDIES: MATHEMATICAL SCIENCES**

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 ENG 101 English Composition I SPC 103, 104, or 105 Speech Comm. Intro Fine Arts & Humanities Intro Social Sciences	5 MATH 152 Calculus II 3 CS 140 Introduction to Computing I 3 ENG 102 English Composition II 3 PHIL 106 Critical Thinking or MATH 106 Deductive Reasoning 3 Intro GENERAL EDUCATION <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17
		5 4 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 18
2	MATH 223 Logic & Reasoning MATH 250 Calculus III MATH 321 Linear Algebra I PHYS 151 Univ. Physics I (Intro NSM) PHYS 151L University Physics Lab I	3 MATH 350 Introduction to Analysis 4 PHYS 152 University Physics II (Dist NSM) 3 PHYS 152L University Physics Lab II 4 Intro GENERAL EDUCATION 1 SCIENCE/ENGINEERING ELECTIVE ELECTIVE <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 15
		3 4 1 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 16
3	MATH 320 Intro to Algebraic Structures MATH 421 Linear Algebra II MATH 450 Real Analysis SCIENCE/ENGINEERING ELECTIVE Dist Fine Arts & Humanities	3 MATH 420 Abstract Algebra 3 MATH 437 Differential Geometry 3 SCIENCE/ENGINEERING ELECTIVE 3 Dist Social Sciences 3 ELECTIVE <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 15
		3 3 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 15
4	MATH 451 Intro to Complex Analysis MATH 498 Senior Seminar Interdisciplinary Studies (IS) Intergroup Relations (IGR)* ELECTIVE	3 MATH 499 Senior Project 2 MATH ELECTIVE (400 level) 3 SCIENCE ELECTIVE (300 level) 3 International Issues/International Culture (II/IC)* 3 ELECTIVE <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 14
		2 3 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 14

\* 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.

**Declaring a Mathematical Sciences Major:** To declare a major in Mathematical Sciences, 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 high education), have a GPA of 2.0 or higher in all University mathematics courses, and have a GPA 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