

Southern Illinois University Edwardsville
BACHELOR OF ARTS – MATHEMATICAL STUDIES: APPLIED MATHEMATICS

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 ENG 101 English Composition I Foreign Language 101 Intro Fine Arts & Humanities	5 MATH 152 Calculus II 3 CS 140 Introduction to Computing I 4 ENG 102 English Composition II 3 Foreign Language 102 (IC) 4 Intro Social Sciences
	15	19
2	MATH 223 Logic & Reasoning MATH 250 Calculus III MATH 321 Linear Algebra PHYS 151 University Physics I (Intro NSM) PHYS 151L University Physics Lab I	3 MATH 305 Differential Equations I 4 MATH 350 Introduction to Analysis 3 PHYS 152 University Physics II (Dist NSM) 4 PHYS 152L University Physics Lab II 1 Intro GENERAL EDUCATION 3 Intro GENERAL EDUCATION
	15	17
3	MATH 450 Real Analysis I MATH, STAT, or OR ELECTIVE* MATH, STAT, or OR ELECTIVE* SCIENCE or ENGINEERING ELECTIVE Dist Fine Arts & Humanities	3 MATH 451 Intro to Complex Analysis 3 MATH 464 Partial Differential Equations 3 SCIENCE or ENGINEERING ELECTIVE 3 Dist Social Sciences 3 ELECTIVE
	15	15
4	MATH 465 Numerical Analysis MATH 498 Senior Seminar MATH, STAT, or OR ELECTIVE* Interdisciplinary Studies (IS) Intergroup Relations (IGR)+	3 MATH 466 Numerical Linear Algebra 2 MATH 499 Senior Project 3 ELECTIVE 3 ELECTIVE 3 ELECTIVE
	14	14

* Refer to the SIUE Undergraduate Catalog for a list of approved elective courses.

+ 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 an Applied Mathematics Major: To declare a major in Applied Mathematics, 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.