Southern Illinois University Edwardsville
BACHELOR OF SCIENCE - 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.siue.edu/registrar/.

YEAR	FALL		SPRING	
1	MATH 150 Calculus I	5	MATH 152 Calculus II	5
	ENG 101 English Composition I	3	CS 140 Introduction to Computing I	4
	SPC 104 Oral Argumentation Skills (recom)	3	ENG 102 English Composition II	3
	Intro Fine Arts & Humanities	3	PHIL 106 Critical Thinking or	
	Intro Social Sciences	3	MATH 106 Deductive Reasoning	3
		17		15
2	MATH 223 Logic & Reasoning	3	MATH 305 Differential Equations I	3
	MATH 250 Calculus III	4	MATH 350 Introduction to Analysis	3
	MATH 321 Linear Algebra	3	PHYS 152 Univ. Physics II (Dist NSM)	4
	PHYS 151 University Physics I (Intro NSM)	4	PHYS 152L University Physics Lab II	1
	PHYS 151L University Physics Lab I	1	Intro GENERAL EDUCATION	3
			Intro GENERAL EDUCATION	3
		15		17
3	MATH 450 Real Analysis I	3	MATH 451 Intro to Complex Analysis	3
	MATH, STAT, or OR ELECTIVE*	3	MATH 464 Partial Differential Equations	3
	MATH, STAT, or OR ELECTIVE*	3	SCIENCE or ENGINEERING ELECTIVE	3
	SCIENCE or ENGINEERING ELECTIVE	3	Dist Fine Arts & Humanities	3
	Dist Social Sciences	3	ELECTIVE	3
		15		15
4	MATH 465 Numerical Analysis	3	MATH 466 Numerical Linear Algebra	3
	MATH 498 Senior Seminar	2	MATH 499 Senior Project	2
	MATH, STAT, or OR ELECTIVE*	3	Interdisciplinary Studies (IS)	3
	Intergroup Relations (IGR)+	3	ELECTIVE	3
	International Issues/Culture (II/IC)+	3	ELECTIVE	3
	ELECTIVE	2		
		16		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.

11/7/08