

## Southern Illinois University Edwardsville

### BACHELOR OF SCIENCE - MATHEMATICS

Secondary Education Certification: Grades 6-12#

This guide provides only a suggested course of study and should be used in consultation with an advisor 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 Interpersonal Comm (IGR) or SPC 105 Public Speaking^ PHIL 106, MATH 106, or FL 106	5 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 14	MATH 152 Calculus II CS 140 Introduction to Computing I PHYS 151 University Physics I (Intro NSM) PHYS 151L University Physics Lab I ENG 102 English Composition II	5 4 4 1 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17
2	MATH 223 Logic & Math Reasoning MATH 250 Calculus III Intro Social Sciences Dist Natural Sciences International Issues/Internat'l Culture (II/IC)+	3 4 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 16	MATH 321 Linear Algebra I MATH 350 Introduction to Analysis CI 200 Introduction to Education Intro Fine Arts & Humanities Intro GENERAL EDUCATION Dist Social Sciences	3 3 2 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17 <b>Complete ICTS Basic Skills Test for Admission to the Teacher Cert. Program</b>
3	MATH 320 Intro to Algebraic Structures MATH ELECTIVE* STAT 380 Statistics for Applications EPFR 315 Educational Psychology Interdisciplinary Studies (IS)	3 3 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 15	MATH 400 Dev of Modern Mathematics EPFR 320 Foundations of Education in a Multicultural Society SPE 400 The Exceptional Child Intro GENERAL EDUCATION Dist Fine Arts & Humanities	3 3 3 3 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 15
4	MATH 311 Teaching of Secondary Math MATH 435 Foundation for Geometry MATH 498 Senior Seminar MATH ELECTIVE* CI 315a Methods of Teaching in Sec Schools CI 440 Teaching Reading in Secondary Sch**	3 3 2 3 2 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 16	MATH 499 Senior Project CI 315b Methods of Teaching Sec School CI 352 Student Teaching	2 2 10 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 14

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

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

\* Choose from:

- a) One of MATH 305, MATH 315, or MATH 365, and one 400 level MATH, STAT, or OR course *or*
- b) Two 400 level MATH, STAT, or OR courses.

\*\* It is preferable to complete CI 440 *prior* to student teaching; however, if necessary, it is possible to take CI 440 during the semester in which student teaching is done.

# Adding a Middle School Endorsement: To be certified to teach middle school (grades 6-8), student must take two additional education courses, EPFR 415, Middle School Learner, and CI 707, Middle & Junior High School. Please see an OCECA advisor for the appropriate placement of these courses into the curriculum.

**Note: Students seeking secondary education certification after February 2012 must have grades of C or higher in all general education, major content and professional education courses. Grades of D are no longer accepted by the Illinois State Board of Education for certification purposes.**

Students may elect to take courses during the summer term to lessen the academic load.

Declaring a Mathematics Major: To declare a major in 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 and 125 or mathematics courses having these courses as prerequisites (or equivalent courses at another institution of higher 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 seven semesters of university preparatory mathematics courses in high school, including a course in trigonometry, and have no grade lower than a C in those courses.

To be accepted into the **teacher certification program**, students must:

1. Receive a grade of C or above in ENG 101 and ENG 102;
2. Successfully complete the introductory course CI 200;
3. Complete 43 semester hours of course credit and have a cumulative grade point average of 2.5 or higher (this includes work at other institutions);
4. Pass the ICTS Basic Skills Test. Information about this test is available online at [www.icts.nesinc.com](http://www.icts.nesinc.com).

For further information concerning Mathematics requirements, contact the Mathematics and Statistics Department, SL 1314, 650-2385, or CAS Undergraduate Advising, PH 1315, 650-5525.

For additional information concerning teacher certification, consult Pamela Feters (last names A-K) or Elaine Farrar (last names L-Z), FH 1110, 650-3940.