

# MATHEMATICS & STATISTICS

## Secondary Education Teacher Certification



College of Arts and Sciences • Department of Mathematics and Statistics

### Degrees Available at SIUE

- Bachelor of Science

### Why Mathematics Education?

Among the core courses in both junior and senior high schools, mathematics is a vital skill to master for a variety of careers. Students who desire to teach youth and who are able to generate excitement and understanding of mathematics as well as impart its relevance to real-life applications are ideal candidates to major in math education.

### Mathematics Education at SIUE

The largest group of mathematics majors at SIUE are those seeking a degree in math education. The Department has developed strong relationships with local high schools and consults regularly about ways to enhance teacher training and education courses as well as to provide vibrant student teaching opportunities. Among the courses required is one that focuses on teaching in multicultural settings. Faculty members also encourage students to develop stimulating methods to spread the appreciation and understanding of math at all levels.

### Career Outlook

Because math is a part of all schools' core curriculum, the outlook for math education majors is strong. For those choosing to continue graduate studies in math, the outlook for mathematics education researchers is skyrocketing due to limited numbers of students pursuing this career track.

### Admission Requirements

Complete MATH 120 and 125, or mathematics courses having these as prerequisites (or equivalent courses at another accredited 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 SIUE courses taken.

Complete 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. Students who do not qualify for admission into an academic program in the department but hope to seek admission later are encouraged to obtain advice from a faculty member in the department.

### Exit Requirements

- Complete all specific program requirements.
- Complete all University requirements including:
  - all general education requirements
  - a minimum of 124 credit hours
    - at least 30 of which must be completed at SIUE
    - at least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
  - Bachelor of Arts only: one year of the same foreign language
- File an Application for Graduation by the first day of the term in which you plan to graduate.

*Continued ...*

### Faculty

#### *Distinguished Research Professors*

**Krzysztof Jarosz, (Chair), Ph.D.**

1982, University of Warsaw

**Urszula Ledzewicz, Ph.D.**

1984, University of Lodz

**Steve E. Rigdon, Ph.D.**

1985, University of Missouri-Columbia

#### *Professors*

**Zenia Agustin, Ph.D.**

1997, Bowling Green State University

**Chunqing Lu, , Ph.D.**

1986, University of New York at Buffalo

**Andrew A. Neath, Ph.D.**

1994, University of California at Davis

**George Pelekanos, Ph.D.**

1997, University of Delaware

**Edward C. Sewell, Ph.D.**

1990, Cornell University

#### *Associate Professors*

**Marcus Agustin, Ph.D.**

1997, Bowling Green State University

**Marilyn Hasty, Ph.D.**

1986, Southern Illinois University Carbondale

**Hee Leem Koung, Ph.D.**

2003, University of Iowa

**James L. Parish, Ph.D.**

1985, University of Chicago

**G. Stacey Staples, Ph.D.**

2004, Southern Illinois University Carbondale

**Tammy M. Voepel, Ph.D.**

1997, University of Missouri-Columbia

#### *Assistant Professors*

**Song Foh Chew, Ph.D.**

2005, Purdue University

**Myung-Sin Song, Ph.D.**

2005, University of Iowa

**Cynthia Traub, Ph.D.**

2006, Washington University

**Adam G. Weyhaupt, Ph.D.**

2006, Indiana University



SOUTHERN ILLINOIS UNIVERSITY  
**EDWARDSVILLE**  
 COLLEGE OF ARTS & SCIENCES

## Sample Four-Year Curriculum

	FALL	SPRING
YEAR 1	<b>MATH 150</b> Calculus I (5) General Education (9) Total 14	<b>MATH 152</b> Calculus II (5) <b>CS 140</b> Introduction to Computing I (4) <b>PHYS 151</b> University Physics I (4) <b>PHYS 151L</b> University Physics I Lab (1) General Education (3) Total 17
YEAR 2	<b>MATH 250</b> Calculus III (4) <b>MATH 223</b> Logic and Mathematical Reasoning (3) General Education (9) Total 16	MATH 350 Introduction to Analysis (3) <b>MATH 321</b> Elementary Linear Algebra (3) <b>CI 200</b> Introduction to Education (2) General Education (9) Total 17
YEAR 3	MATH 320 Introduction to Abstract Algebra (3) STAT 380 Statistics for Application (3) <b>EPFR 315</b> Educational Psychology (3) MATH, STAT, or OR elective (3) General Education (3) Total 15	MATH 400 Development of Modern Mathematics (3) EPFR 320 Foundations of Education (3) SPE 400 The Exceptional Child (3) General Education (6) Total 15
YEAR 4	MATH 311 The Teaching of Secondary Mathematics (3) MATH 435 Foundations of Geometry (3) MATH 498 Senior Seminar (2) CI 440 Teaching Reading in the Secondary School (3) CI 315a Methods of Teaching in the Secondary School (2) MATH, STAT, or OR elective (3) Total 16	CI 315b Methods of Teaching in the Secondary School (2) CI 352 Student Teaching (10) MATH 499 Senior Project (2) Total 14

**TRANSFER STUDENTS** Maximize your transfer experience - complete the **bolded** courses/requirements pre-transfer **AND** satisfy the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed, or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Transfer Credit Equivalency Guides are located at [siue.edu/transfer/](http://siue.edu/transfer/)

In order to be admitted into the teacher certification program, students must have:

- Received a grade of C or above in **ENG 101** and **ENG 102**
- Completed 43 semester hours of course credit and have a cumulative grade point average of 2.5 or higher (this includes work at other institutions)
- Successfully completed the introductory course **CI 200**
- **Passed the ICTS Basic Skills Test.** Information about this test is available at [www.icts.nesinc.com](http://www.icts.nesinc.com)

### Application Deadline

Please refer to SIUE's undergraduate application deadlines.

### Academic Advising Information

Brian Hinterscher  
 College of Arts and Sciences Undergraduate Advising  
 Campus Box 1609  
 SIUE  
 Edwardsville, IL 62026-1609  
 618.650.5525

### Contact Info

SIUE Department of Mathematics and Statistics  
 Campus Box 1653  
 Edwardsville, IL 62026-1653  
 618.650.2250

