

# MATHEMATICAL SCIENCES BACHELOR OF ARTS

UNIVERSITY OF  
**ILLINOIS**  
SPRINGFIELD

## ONLINE

The Bachelor of Arts in Mathematical Sciences is designed to prepare students for careers using mathematics, operations research, and statistics in the fields of teaching, research, industry, insurance, and management or for graduate study in Mathematical Sciences or related areas. Those who plan to teach mathematics or work in engineering or the physical sciences should choose mathematics courses as electives. Those who wish to apply mathematical methods to life sciences, social sciences, or business fields should choose operations research or statistics courses. Any of these choices provide excellent preparation for graduate work in fields that need quantitative skills.

### TARGET AUDIENCE:

Students who seek to participate actively in dynamic, diverse, and interactive online learning communities, and complete their degrees in their own time via the Internet.

### ADMISSION REQUIREMENTS:

To apply to enter the online Mathematics (MAT) Program, students must have a grade point average of 2.00 or higher on a 4.00 scale from an accredited college or university. All upper division math classes have prerequisites; students may enter the university without three semesters of calculus but these must be completed before taking any math class which requires them.

BME - <https://tec.illinois.edu/academics/certificates/business-management>

STM - <https://tec.illinois.edu/academics/certificates/strategic-technology>

### COST:

See: <https://grainger.illinois.edu/academics/online/tuition-funding>

### REGISTRATION PROCEDURE:

<https://grainger.illinois.edu/academics/online/registration>

### ACADEMIC CALENDAR:

<https://grainger.illinois.edu/academics/online/calendar>

### DELIVERY MODE:

Entirely online. Lake County students who do not have access to a computer should contact the University Center for convenient computer access. Some exams may be proctored.

### TEXTBOOK PURCHASE:

The UIS Follett's Bookstore can be accessed at: [www.uis.bkstr.com](http://www.uis.bkstr.com) or other online providers.

### TRANSFER HOURS POLICY:

Contact the Online Program Coordinator for specifics.

### ACCREDITATION:

Higher Learning Commission of the North Central Association of College and Schools

### TOTAL HOURS NEEDED:

60 credit hours in upper division course work plus transfer hours for a total of 120 hours.

### FINANCIAL AID INFO:

Call (217) 206-6724 or visit the website at [www.uis.edu/financialaid](http://www.uis.edu/financialaid).

### CONTACT PERSON(S):

Frank Hoskinson  
Executive Director  
Phone: (217) 206-8272  
E-mail: [math@uis.edu](mailto:math@uis.edu)

### ADDRESS:

University of Illinois Springfield  
One University Plaza  
Springfield, IL 62703

### WEBSITE:

<https://www.uis.edu/math>

### REQUIRED COURSES:

#### Major Requirements:

MAT 330 Entrance Assessment (0 hours)  
MAT 332 Linear Algebra 4 hours  
MAT 415 Advanced Calculus 4 hours  
MAT 431 Mathematical Statistics I 4 hours  
MAT 444 Operations Research Methods 4 hours

One of the following clusters: 8 hours  
Cluster A: MAT 403, Abstract Algebra,  
MAT 404, Geometry

Cluster B: MAT 421, Statistical Methods,  
MAT 432, Mathematical Statistics II Math  
Electives 8 hours MAT 491 Exit Assessment  
(0 hours) UIS Engaged Citizenship Coursework  
(available online) 10 hours Upper Division  
General Electives (if needed, may be transfer)  
18 hours

**Total Hours: 60 hours**

#### Minor Requirements:

The UIS Mathematical Sciences program offers an online Mathematics minor to complement the University's online majors. It requires students to take 24 semester hours, of which 12 hours must be upper division coursework taken at UIS.