

# Mathematical Sciences Minor

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## Advising

Students wishing to minor in Mathematical Sciences should select an academic advisor from among the Mathematical Sciences faculty who will help ensure all requirements are met.

To earn a minor in Mathematical Sciences, students must complete a minimum of 24 semester hours, at least 12 hours of which must be upper-division course work taken at UIS. Transfer credit for lower-division course work and for upper-division mathematics courses is evaluated on a case-by-case basis through a Student Petition. Upon completing the core course requirements, students must then select an area of specialization (mathematics, operations research, or statistics) and complete 12 semester hours as detailed below.

## Requirements

### Core Courses

MAT 115	Calculus I	4
MAT 116	Calculus II	4
MAT 332	Linear Algebra	4

**Select from one of the following three specializations: 12**

MAT 403 Abstract Algebra

MAT 404 Geometry

One elective course (4 hours)

### Operations Research Specialization Requirements

MAT 403 Abstract Algebra

or MAT 404 Geometry

MAT 442 Data-driven Modeling and Numerical Simulation

MAT 444 Operations Research Methods

### Statistics Specialization Requirements

MAT 403 Abstract Algebra

or MAT 404 Geometry

MAT 421 Statistical Methods

MAT 431 Mathematical Statistics I

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**Total Hours 24**