Mathematics, Minor

ASMATHMIN

Description

The minor program in mathematics explores the study of higher mathematics. It is designed to enable the student to understand the mathematics most commonly used in business, economics and science. It is expected that students in the minor will be able to reason and to find creative solutions to problems that are either presented to them or meaningfully formulated by them.

The program is offered by the School of Mathematical and Natural Sciences.

At a Glance

- **College/School**: [New College of Interdisciplinary Arts and Sciences](#)
- **Location**: [West campus](#)

Program Requirements

Minor Map (Archives)
2021 - 2022 Minor Map

The minor in mathematics consists of 20 credit hours (a minimum of 12 credit hours must be upper division). A minimum of nine upper-division credit hours must be taken from the School of Mathematical and Natural Sciences. Elective courses not on this list should be approved by an academic advisor prior to enrollment. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

Core Requirements -- 14 credit hours

- **MAT 271**: Calculus with Analytic Geometry II (MA) (4)
- **MAT 272**: Calculus with Analytic Geometry III (MA) (4)
- **MAT 300**: Mathematical Structures (L) (3)
MAT 342: Linear Algebra or MAT 343: Applied Linear Algebra (3)

Upper-Division Elective Courses (choose two courses) -- 6 credit hours

MAT 310: Introduction to Geometry (3)
MAT 371: Advanced Calculus I (3)
MAT 411: History and Philosophy of Mathematics (HU & H) (3)
MAT 421: Applied Computational Methods (CS) (3)
MAT 443: Introduction to Abstract Algebra (3)
MAT 445: Theory of Numbers (3)
MAT 452: Introduction to Chaos and Nonlinear Dynamics (3)
MAT 461: Applied Complex Analysis (3)
MAT 462: Applied Partial Differential Equations (3)
MAT 472: Intermediate Real Analysis I (3)

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.

Enrollment Requirements

GPA Requirement: None

Incompatible Majors: BS in applied mathematics

Other Enrollment Requirements: None

The minor in mathematics is open to all ASU undergraduate majors.

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. Students interested in pursuing a minor should consult their academic advisor to declare the minor and to ensure that an appropriate set of courses is taken. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and the minor. Students should contact their academic advisor for more information.

Career Opportunities

The minor is recommended for students who plan to major in interdisciplinary arts and sciences, biology or business and for those who are preparing for further graduate study.

Contact Information