How do scientists use math to represent the behavior of objects and systems in the real world? Get answers to that question and a strong foundation in critical analysis and analytical ability that can prepare you to work in a wide variety of fields including software development, government, medical research, logistics and finance.

**Description**

The computational mathematical sciences minor offers a structured curriculum that includes a foundation in calculus with a focus on applied math. Students will develop a framework of scientific computing and numerical analysis skills.

**At a Glance**

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus

**Program Requirements**

**Minor Map (Archives)**

**2019 - 2020 Minor Map**

The minor in computational mathematical sciences consists of a minimum of 18 credit hours. At least 12 credit hours must be completed at the upper-division level and all courses must be completed with a grade of "C" (2.00 on a 4.00 scale) or better.

**Required Courses -- 18 credit hours**

MAT 271: Calculus with Analytic Geometry II (MA) or MAT 266: Calculus for Engineers II (MA) (3-4)

MAT 272: Calculus with Analytic Geometry III (MA) or MAT 267: Calculus for Engineers III (MA) (3-4)

MAT 342: Linear Algebra or MAT 343: Applied Linear Algebra (3)
MAT 420: Scientific Computing (3)
MAT 421: Applied Computational Methods (CS) (3)
MAT 423: Numerical Analysis I (CS) or MAT 425: Numerical Analysis II (CS) (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: 2.00

Incompatible Majors: BS in actuarial science; BS in applied mathematics; BS in computational mathematical science; BS in statistics, BA and BS in mathematics (including all concentrations); BAE in secondary education (mathematics)

Other Enrollment Requirements: None

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.

Contact Information

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