Computational skills and problem solving form the basis of the applied computing curriculum, with its emphasis on databases, networks, systems and security. Students with the computational skills and depth of knowledge achieved through the minor in applied computing are in high demand in fields that make use of computer technology, including business, government, education, science and medicine.

**Description**

The minor in applied computing offered by the School of Mathematical and Natural Sciences combines technical computing skills with an understanding of the impact of computer science in real-world contexts. Coursework in the applied computing minor provides a depth of knowledge in databases, networks and systems and gives students from other disciplines a computational component to their major field of study. Computational and problem-solving skills are in high demand in a multitude of career fields including cybersecurity, web administration, education and telecommunications.

**At a Glance**

- **College/School:** New College of Interdisciplinary Arts and Sciences
- **Location:** West campus

**Program Requirements**

The minor in applied computing consists of a minimum of 15 credit hours. At least 9 credit hours must be upper division. All courses used to satisfy requirements for the certificate must be passed with a "C" (2.00) or better.

**Required Courses -- 15 credit hours**
ACO 201: Data Structures and Algorithms (CS) (3)
ACO 240: Introduction to Programming Languages (3)
ACO 320: Database Systems (3)
ACO 330: Computer Networks (3)
ACO 350: Systems Programming (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:** 2.50

**Majors Ineligible to Add This Minor:** BS in applied computing

**Other Enrollment Requirements:** A "C" or better is required in ACO 102 Object-Oriented Programming and MAT 210 Brief Calculus in order to enroll in the required minor course, ACO 201.

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**

School of Mathematical and Natural Sciences | FAB N100
MNSadvising@asu.edu | 602-543-3000