Applied Computing, **Minor**

ASACOMIN

Put yourself in high demand in fields that use computer technology, and gain the computational and problem-solving skills with curriculum in the backbone of applied computing, with additional emphases on databases, networks, systems and security.

**Description**

The minor in applied computing 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 demand in a multitude of career fields including cybersecurity, web administration, business, government, education, science, medicine and telecommunications.

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 applied computing consists of 15 credit hours. At least nine credit hours must be upper-division. Six upper-division credit hours must be taken from classes offered by the School of Mathematical and Natural Sciences. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

Core Requirements -- 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: None

Incompatible Majors: BS in applied computing; BS in applied computing (cybersecurity); BS in computational forensics

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.

Career Opportunities

The applied computing curriculum provides a solid background for employment as:

- computer network administrator
- computer network technician
- computer programmer
- computer systems analyst
• database administrator
• information security analyst
• information technology manager
• software developer
• software engineer
• web developer

Contact Information

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