

# Applied Computing, Minor

ASACOMIN

If you're looking to hone your computational and problem-solving skills, this minor program can help while making you a more competitive applicant in your future career.

## Description

The minor program in applied computing combines technical computing skills with an understanding of the impact of computer science in applicable contexts.

Coursework in the minor provides students with a depth of knowledge in databases, networks and systems, and it adds a computational component to their major field of study.

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 Valley](#)

## Program requirements

[2024 - 2025 Minor Map](#)

[Minor Map \(Archives\)](#)

The minor in applied computing consists of 15 credit hours of coursework, of which a minimum of nine hours must be upper division. A minimum of six upper-division credit hours must be completed through courses offered by the School of Mathematical and Natural Sciences. Credit hours may not be shared between major and minor requirements. 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 (QTRS OR CS) (3)

ACO 240: Introduction to Programming Languages (3)

ACO 320: Database Systems (3)

ACO 330: Computer Networks (3)

ACO 350: Systems Programming (QTRS OR CS) (3)

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:** Students must complete ACO 102 Object-oriented Programming, MAT 210 Brief Calculus, and MAT 243 Discrete Mathematical Structures/300 Mathematical Structures with a "C" or better as prerequisites to coursework in the minor.

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. 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 minor.

## Career opportunities

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 applied computing curriculum provides a solid background for employment as:

- computer network administrators
- computer network technicians
- computer programmers
- computer systems analysts
- database administrators
- information security analysts
- information technology managers
- software developers
- software engineers

- web developers

## Contact information

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