

Computer Science

Award Type: Associate in Arts

The associate degree program in computer science is designed for students who desire to transfer to a four-year school. Computer Science is the study of the theoretical foundations of information and computation and their implementation and application in computer systems. Courses cover programming fundamentals, data structures, discrete mathematics, and computer architecture, along with specific programming languages.

The graduate of the Associate in Arts in Computer Science will:

- Recall significant computer science concepts, vocabulary, and theories.
- Produce elementary programming projects in a variety of languages.
- Demonstrate the ability to follow instructions.
- Find and correct programming errors.

Program Requirements

A major of 18 units is required for the degree.

Required core (12 units):

| Course Number | Course Title | Units |
|---------------|-------------------------------|-------|
| CS 111 | Fundamentals of Programming 1 | 4.0 |
| CS 112 | Fundamentals of Programming 2 | 4.0 |
| MATH 181 | Calculus 1 | 4.0 |

Plus a minimum of 6 units selected from the following:

| Course Number | Course Title | Units |
|---------------|-----------------------|-------|
| CS 131 | Computer Organization | 3.0 |
| CS 161 | Discrete Structures | 3.0 |
| CS 181 | Game Programming | 3.0 |