

Computer Science

Award Type: Associate in Science for Transfer

Computer science is the study of the theory and methods of processing information in digital computers, the design of computer software and hardware, and the applications of computers. Courses cover programming fundamentals, data structures, discrete mathematics, and computer architecture, along with specific programming languages. The Associate in Science in Computer Science for Transfer degree is offered for those students desiring a major in computer science at a California State University. Associate Degree for Transfer Requirements Completion of 60 semester units that are eligible for transfer to the California State University, including the following: 1. Completion of the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth (CSU GE). 2. A minimum of 18 semester units in a major or area of emphasis as determined by the community college district. 3. Obtainment of an overall minimum grade point average of 2.0. 4. Minimum grade of C, or P grade, for each course in the major. [The following Allan Hancock College graduation requirements will not be required: Health and Wellness, Multicultural Gender Studies and Allan Hancock College General Education.]

The graduate of the Associate in Science for Transfer in Computer Science will:

- Recall significant computer science concepts, vocabulary, and theories.
- Produce programming projects using a contemporary programming language.
- Find and correct programming errors.

Program Requirements

A major of 30 units is required for the degree.

| Course Number | Course Title | Units |
|---------------|-------------------------------|-------|
| CS 111 | Fundamentals of Programming 1 | 4.0 |
| CS 112 | Fundamentals of Programming 2 | 4.0 |
| CS 131 | Computer Organization | 3.0 |
| CS 161 | Discrete Structures | 3.0 |
| MATH 181 | Calculus 1 | 4.0 |
| MATH 182 | Calculus 2 | 4.0 |
| PHYS 161 | Engineering Physics 1 | 4.0 |
| PHYS 163 | Engineering Physics 3 | 4.0 |

General Education

Complete the following:

- Intersegmental General Education Transfer Curriculum (IGETC) - 37 units, or
- CSU General Education Breadth (CSU GE) - 39 units.

Double counting:

A maximum of 7 units may be double counted for the major and CSU GE or IGETC units.

Select additional CSU transferrable units as needed to achieve 60 units required for the degree - 0 units

Visit [myHancock](#) and select the [DegreeWorks](#) icon to view CSU or IGETC general education and transferrable courses.