AS-T Computer Science

Completion of the AS-T in computer science prepares students for transfer to a 4-yr institution to complete their Bachelor's degree in computer science or computer science

engineering. This degree can be completed in either C^+

⁺ or JAVA programming languages. Students will need to determine which language is preferred by the transfer institution.

Career Opportunities

Students completing this degree will be ready to transfer to a 4-yr institution to complete study in computer science. A basic knowledge of computer structure and programming adds to many jobs - both as a programmer, working with programmers and as a content expert developing programs for projects in that field.

Program Learning Outcomes

Students completing this program will be able to:

- Apply knowledge of math, science and computer science to identify, formulate, and solve computer science problems.
- 2. Communicate effectively and work well in situations that require teamwork.
- 3. Design and perform tests or experiments, analyze and interpret data, and prepare a report summarizing the results of the tests of experiments.
- 4. Develop a design or system given a set of requirements and specifications
- 5. Use techniques, skills, and modern engineering and computer tools necessary for engineering or computer science practice.

AS-T Degree Requirements Major: Core and Selective Requirements

Complete Core Courses, 30 units

CIS 242	Computer Architecture and Assembly Language	3 units
CIS 250	Introduction to Object Oriented Programming: C++	3 units
	OR	
CIS 284	Introduction to Object Oriented Programming- Java	3 units
CIS 252	Introduction to Data Structures - C++	3 units
	OR	
CIS 286	Introduction to Data Structures - Java	3 units

CIS 262	Discrete Mathematics for Computer Science	3 units
MATH 251	Analytical Geometry and Calculus l	5 units
MATH 252	Analytical Geometry and Calculus Il	5 units
PHYS 250	Physics with Calculus I	4 units
PHYS 260	Physics with Calculus II	4 units

General Education - certified completion of one of the following:

- California State University General Education-Breadth pattern (CSU GE Breadth),
- ۰OR
- Intersegmental General Education Transfer Curriculum (IGETC/CSU) pattern

Elective courses: If applicable, additional courses to meet the minimum 60 CSU transferable units requirement.

Please refer to Associate Degree for Transfer (ADT) Requirements for more information.



Units