

COMPUTER SCIENCE: AS-T DEGREE

getting-your-degree/general-education/#igetcgenealeducationtext) pattern. Consultation with a Counselor is highly encouraged to ensure all requirements are met.

The Associate in Science in Computer Science for Transfer Degree is designed for students desiring advanced degrees in Computer Science. Upon completion of this degree (AS-T Computer Science), students will be able to apply standard computer control structures to solve problems and develop algorithms. To fulfill the requirements for this degree, students will complete the IGETC and/or CSU GE-required courses in the area of emphasis and the appropriate general education pattern totaling a minimum of 60 semester transferable units. Students must maintain a minimum overall grade point average of 2.0 and a minimum grade of "C" for each course in the major. A baccalaureate degree is the recommended preparation for those considering professional careers in Computer Science.¹

Program Learning Outcomes

1. Demonstrate the use of standard computer control structures to solve problems and develop algorithms.
2. Knowledge of writing programs that utilize functions as a method of program organization and control.
3. Knowledge of computer architecture and organization.

Degree Requirements

Code	Title	Units
Required Courses		
COMS-215	Programming Concepts and Methodology I	3
COMS-216	Programming Concepts & Methodology II	3
COMS-217	Assembly Programming Course	3
COMS-218	Discrete Structures	3
MATH-120	Calculus I	5
MATH-121	Calculus II	5
PHYS-140	Physics for Scientists & Engineers 1	4
Required Electives: List A		
Complete one course from the following:		4-5
PHYS-240	Physics for Scientists & Engineers 2	
BIOL-120	General Biology	
CHEM-120	General Chemistry 1	
Total Units		30-31

¹ This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students may earn this degree by completing the IGETC GE pattern and not exceed the 60-unit Associate Degree for Transfer (ADT) unit requirement with BIOL-120 or PHYS-240. Students may also earn this degree by completing the IGETC GE pattern with the CHEM-120 course **or** they may complete the CSU GE pattern with any of the science course options listed but will exceed 60 units required for this degree by 1 to 3 units. Students may consult with a Counselor to discuss the best path.

To receive an Associate Degree for Transfer, students must complete 60 CSU transferable semester units with a grade point average of at least 2.0, and either the California State University General Education (CSU-GE) (<https://catalog.napavalley.edu/getting-your-degree/general-education/#csugenealeducationtext>) or the Intersegmental General Education Transfer Curriculum (IGETC) (<https://catalog.napavalley.edu/>