

ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE FOR TRANSFER (AS-T)

Students completing the Associate in Science in Computer Science for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Computer Science. Students completing this degree will have an introductory foundation for the field of Computer Science through the study of object-oriented programming, discrete math and the functionality, organization, and implementation of computer systems. The student will acquire the knowledge and skill sets necessary for success in a baccalaureate-level Computer Science program.

** 7 units may be double counted above in 1B (IGETC-CSU). IGETC-CSU requires completion of IGETC AREA 1C.

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see Transfer Information and Requirements (<http://catalog.cos.edu/transfer-information-requirements/>) for additional details).

Program Outcomes

- Demonstrate the skills to plan, create, test, and debug computer programs using procedural programming or Object-Oriented Programming techniques.
- Demonstrate the ability to identify and understand the basic terminology used in Computer Science and how computer hardware and software work together to produce desired results.
- Demonstrate the skills and training for employment and/or transfer to a four-year college or university.

Transfer & Career Opportunities

This Associate in Science in Computer Science for Transfer (AS-T) Degree is intended to meet the lower division requirements for Computer Science for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org (<http://ASSIST.org>) and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: technical and financial industries, academics and research, computer and statistical fields (many other career options require an advanced degree).

Program Requirements

Code	Title	Units
GENERAL EDUCATION AND SUBJECT REQUIREMENTS		37
Select one of the following General Education patterns:		
Intersegmental General Education Transfer Curriculum (IGETC-CSU) **		
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REQUIRED MAJOR COURSES		30
CSCI 001	Programming Concepts/Method 1	4
CSCI 002	Programming Concepts/Method 2	4
CSCI 005	Computer Arch & Organization	3
CSCI 006	Discrete Structures	3
MATH 065	Calculus 1 **	4
MATH 066	Calculus 2	4
PHYS 055	Physics 1: Mechanics & Waves **	4
PHYS 056	Physics 2: E&M and Heat	4
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TOTAL		60