

COMPUTER SCIENCE, ASSOCIATE IN SCIENCE FOR TRANSFER

Computer science courses provide a combination of theoretical study and programming fundamentals. Students who complete this AS-T will be equipped with essential skills in programming, data structures, algorithms, and computer organization, ensuring they are well-prepared for both academic advancement and entry-level positions in the tech industry.

The Associate in Science for Transfer (AS-T) degree in Computer Science is intended for students who plan to complete a bachelor's degree in Computer Science or other majors designated as "similar" majors by a CSU campus. For a current list of what majors (and what options or areas of emphasis within majors) have been designated as "similar" to this degree at each CSU campus, please refer to CSU's Associate Degree for Transfer Major and Campus Search (<https://www.calstate.edu/apply/transfer/Pages/associate-degree-for-transfer-major-and-campus-search.aspx>) and seek guidance from an Oxnard College counselor. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn an AS-T in Computer Science, students must:

- Complete a minimum of 60 CSU-transferable semester units, including both of the following:
 - Certified completion of the California General Education Transfer Curriculum (Cal-GETC).
 - A minimum of 28 units and all required coursework for the AS-T in Computer Science major as listed in the Oxnard College catalog.
- Obtain a minimum grade point average (GPA) of 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some transfer institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- Obtain a grade of "C" or better or "P" in all courses required in the major. Even though a "pass-no-pass" is allowed, it is highly recommended that students complete their major courses with a letter grade (A, B, or C).
- Complete a minimum of 12 units in residence within the Ventura County Community College District.

Students transferring to a CSU campus that accepts the AS-T in Computer Science will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major at a particular campus). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Course ID	Title	Units/ Hours
Required Core Courses		27
CS R131	Programming Concepts and Methodology I	3
CS R132	Programming Concepts and Methodology II	3
CS R142	Computer Architecture and Organization	3

CS R152	Discrete Structures	3
MATH R120	Calculus with Analytic Geometry I	5
MATH R121	Calculus with Analytic Geometry II	5
PHYS R131	Physics for Scientists and Engineers 1	5

List A - Complete one course that includes a lab from the following:

PHYS R132	Physics for Scientists and Engineers 2	5
OR		
BIOL R120 & R120L	Principles of Biology I and Principles of Biology I Lab: Intro to Cellular and Molecular Biology	5
OR		
BIOL R122 & R122L	Principles of Biology II and Principles of Biology II Laboratory	5
OR		
CHEM R120	General Chemistry I	5
Total Required Major Units		32
Cal-GETC		34
Double-Counted Units		7-10
Free Electives Required		1-4
Total Units Required for AS-T Degree		60

- Decompose problems into algorithms.
- Create programs that use flow control and looping constructs
- Develop programs that use object-oriented concepts and standard data structures
- Describe computer architecture.
- Deliver and test programs while using current programming environments.
- Formulate, develop, and implement solutions to real world problems through applying different solution techniques.