



ORANGE COAST COLLEGE  
We'll help you get there.™

## PROGRAM OF STUDY

### Computer Science Associate in Science for Transfer

The Associate in Science degree for Transfer (AS-T) in Computer Science provides students the opportunity to meet lower-division transfer requirements for a major in Computer Science, or similar, at California State University Fullerton. Community college students who have completed the AS-T are guaranteed junior standing and priority admissions consideration over all other transfer students when applying to the CSU system, but not to a particular campus or major. Once admitted, students will be required to complete 60 additional prescribed units to qualify for a Bachelor's degree in Computer Science, or similar.

To earn the AS-T degree, students must meet the following requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
  - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0.
  - a. ADTs also require that students must earn a "C" or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is not an acceptable grade for courses in the major.

To view the most current list of Orange Coast College Associate Degrees for Transfer (ADT) and to find out which CSU campuses accept each degree, please go to: [SB 1440 Student Transfer Website](#).

### Program Outcomes:

#### **OUTCOME 1:**

Upon successful completion of the program, students will be able to: design and implement, test and debug small-scale programs that use fundamental programming constructs and object-oriented programming concepts; demonstrate understanding of fundamental data structures and their application to programming; and write small programs in Assembly and/or Machine languages showing an understanding of the internal organization of a computer system.

#### **OUTCOME 2:**

Students who complete the Associate in Science in Computer Science for Transfer degree will be eligible for admission (SB 1440 and Education Code 66746) to California State University system school.

## Courses Needed for Computer Science (Transfer)

<b>Required Core (29 units):</b>	<b>Units</b>
CS A122 Programming Concepts and Methodology I	3.0
CS A132 Programming Concepts and Methodology II	4.0
CS A242 Computer Organization and Assembly Language	3.0
CS A262 Discrete Structures	3.0
MATH A180 Calculus 1 <u>or</u> MATH A180H Calculus 1 Honors	4.0
MATH A185 Calculus 2 <u>or</u> MATH A185H Calculus 2 Honors	4.0
PHYS A185 Calculus-Based Physics: Mechanics	4.0
PHYS A280 Calculus-Based Physics: Electricity/Magnetism	4.0
<b>Subtotal</b>	<b>29.0</b>

<b>Program Major Units: 29</b>	<b>Units</b>
<b>CSU or IGETC General Education Breadth: 37–39 (subtotal has double counted units removed)</b>	
<b>Subtotal</b>	<b>31.0</b>

<b>Courses in major program may be double counted in GE Breadth section</b>	<b>Units</b>
<b>Transfer elective units as needed to satisfy 60-unit degree requirement</b>	
<b>Subtotal</b>	<b>Varies</b>

**Total Units 60.0**