

COMPUTER SCIENCE, CERTIFICATE OF ACHIEVEMENT

Banner Code: 1_CN_CSPR
Financial Aid Eligible

This certificate is designed to provide the student with comprehensive grounding in the theory and practice of modern computer programming. Based on the recommendations of the Association of Computing Machinery, the Computer Programming Certificate prepares students to work as entry-level programmers. Students should not expect that they will necessarily meet the lower division requirements at specific colleges or universities. Students should consult the Transfer Information section of this catalog for specific transfer information.

Program Outcome

Based on the recommendations of the Association for Computing Machinery, The Computer Programming Certificate prepares students to work as entry-level programmers, or used to fulfill some of the requirements for transfer to a Computer Science program at a four-year university.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/certificates/#achievementtext>).

Course	Title	Units
Required Courses		
CS A131 or CS A170	Python Programming I Java Programming 1	4
CS A150	C++ Programming Language 1	4
CS A250	C++ Programming Language 2	4
CS A200 or CS A262	Data Structures Discrete Structures	3-4
<i>Select one of the following:</i>		4-5
MATH A180/ A180H	Calculus 1	
MATH A182H	Calculus 1 and 2 Honors	
MATH A185/ A185H	Calculus 2	
Total Units		19-21

Program Sequence

These sequences at Orange Coast College are curriculum maps for students to finish all requirements for the certificate. There may be advisories, prerequisites, or time requirements that students need to consider before following these maps. **Students are advised to meet with an Orange Coast College Counselor for alternate sequencing.**

Course	Title	Units
Year 1		
Semester 1		
CS A131 or CS A170	Python Programming I or Java Programming 1	4
Units		4
Semester 2		
CS A150	C++ Programming Language 1	4
MATH RESTRICTED ELECTIVE- CHOOSE ONE		4-5
MATH A180 or MATH A180H	Calculus 1 or Calculus 1 Honors	
MATH A182H	Calculus 1 and 2 Honors	
MATH A185 or MATH A185H	Calculus 2 or Calculus 2 Honors	
Units		8-9
Year 2		
Semester 1		
CS A250	C++ Programming Language 2	4
Units		4
Semester 2		
CS A200 or CS A262	Data Structures or Discrete Structures	3-4
Units		3-4
Total Units		19-21