

# NETWORK ADMINISTRATION AND OPERATIONS, CERTIFICATE OF SPECIALIZATION

Not Financial Aid Eligible  
Banner Code: 1\_CE\_CSNO

Completion of this certificate will enable students to acquire the skills needed in the areas of technical operations and network management. In addition, this certificate provides preparation for students seeking industry-standard certification from CompTIA and Microsoft. A grade of "C" or better is required in all courses. All courses must be completed at Orange Coast College.

## Program Outcomes

1. Students who receive the Network Administration and Operations Certificate of Specialization will be able to design and implement a small to medium network environment.

## Certificate Requirements

Orange Coast College offers two types of certificate awards in career programs designed to prepare the graduate to enter a particular field of employment. At least 3 units in an advanced course from the certificate must be completed at OCC.

1. **Certificate of Achievement** - 8 units or more in a state-approved program. Certificates of Achievement are not automatically awarded. A petition must be filed in Enrollment Services or online at the beginning of the semester in which the student will be completing his or her final requirements. The petitioning periods are listed in the Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/>) section of this catalog.
2. **Certificate of Specialization** - 16 units or less in a locally approved program. Certificates of Specialization are not automatically awarded, not printed on official academic transcripts, and there is no acknowledgment of completion given at graduation. Please contact the division for details regarding the submission of petitions as procedures for each division vary. Most division offices prefer that students complete all of the required courses and then provide a copy of the transcript while some divisions allow petitions for Certificates of Specialization before finishing.

### Minimum Grade Requirement

In order to be awarded a certificate, students are required to obtain a grade of "C" or better in all program-required courses. Grades of "CR" or "P" will be accepted whereas "CR" or "P" meets the equivalency of a "C" or better. A list of certificate programs can be found in the Programs A-Z (<https://catalog.cccd.edu/orange-coast/programs-study/>) section of this catalog. Check with a counselor to determine the requirements for completion.

Course	Title	Units
<b>Required Courses</b>		
IT A110	PC Concepts: A+ Certification Preparation	4
IT A191	Network and Communications Technologies	4

Course	Title	Units
IT A192	Network Systems Administration	4
Select one of the following:		3-4
IT A176	Database Design and Data Warehousing	
IT A177	Business Intelligence and Data Mining	
IT A193	Network Infrastructure Administration	
IT A194	Network Directory Services Administration	
IT A196	Network Enterprise Administration	
Total Units		15-16