



Cisco Networking
Certificate of Achievement
and
Certificate of Accomplishment

Big Bend Community College is a Cisco Networking Academy training center. Cisco training prepares students to enter the work force as a networking technician. The Cisco Networking Academy prepares students to take the Cisco certification exams to become a Cisco Certified Network Associate (CCENT and CCNA). Certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN.

Students complete related instruction courses and, if desired, can continue training and apply all earned certificate of achievement credits to the Associate in Applied Science degree. Completing CS 171, CS 172, and CS 173 prepares students for the CCNA exam.

Program prerequisites: Basic computer literacy, keyboarding, and familiarity with word processing and spreadsheet software. Pre-college Math and English courses may be required depending on student placement level.

Certificate of Achievement (47+ Credits)

Students completing this certificate take Cisco certification preparation courses and related instruction courses in math, English, and communication. If desired, student can continue training and apply all earned credits to the Systems Administration Associate in Applied Science degree.

Program Learning Outcomes:

- IO1 Communication
Communicate clearly and effectively within a workplace context
- IO2 Quantitative Reasoning
Analyze and solve computational problems using a modern program language
- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills
- PO4 Demonstrate the ability to build, upgrade, and repair computer hardware
- PO5 Configure, troubleshoot, and administer computer networks and networking hardware
- PO8 Configure WAN technologies and network services required by converged applications in a complex network
- PO9 Troubleshoot routers & switches; resolve common VLAN routing issues in both IPv4 & IPv6 networks

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| CS 104 Intro to Computer Hardware | 3 |
| CS 105 Intro to Operating Systems | 3 |
| CS 110 Intro to Networks | 4 |
| CS 121 Network+ Certification Prep..... | 1 |
| CS 171 Cisco Networking: Intro to Networks | 6 |
| CS 172 Cisco Networking: Routing & Switching | 6 |

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| CS 173 Cisco Networking: Enterprise Networking | 6 |
| BUS 120 Human Relations on the Job | 4 |
| or PSYC& 100 General Psychology | |
| or SOC& 101 Intro to Sociology | |

Certificate of Accomplishment (18 Credits)

This short-term training option is designed for students seeking the Cisco CCENT and CCNA certifications. If desired, students can continue training and apply all earned credits to the Cisco Networking Academy Certificate of Achievement and Associate of Applied Science degree options.

Program Learning Outcomes:

- IO3 Human Relations/Workplace Skills
Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

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| CS 171 | Cisco Networking: Intro to Networking | 6 |
| CS 172 | Cisco Networking: Routing & Switching Essentials | 6 |
| CS 173 | Cisco Networking: Scaling Networks | 6 |