

CISCO NETWORKING CERTIFICATE - 12 CREDITS

About this program

This 12-credit certificate will prepare students to take the Cisco Certified Network Associate (CCNA) certification and also the CompTIA Network+ certification. The coursework includes Cisco semesters 1-4. Skill development covers LAN/WAN networking technology and concepts, networking math, networking media, router configuration, switching, VLANs, routing protocols and WAN links and services. The instructor will evaluate computer skills necessary to enter this certificate program. Students should have good reading and study skills, basic computer literacy and awareness of the Internet. Prior experience with computer hardware, binary math and basic electronics is desired but not required. Background in cabling is beneficial. Upon completion of this certificate the student will be able to take the Cisco CCNA and CompTIA Network+ certification exams offered through VUE or Prometric testing centers.

Program outcomes

1. Analyze networking models.
2. Analyze networking protocols.
3. Configure local area networks.
4. Configure wide area networks.
5. Define common industry terms and standards.
6. Troubleshoot LAN/WAN systems.

Curriculum overview

Crds	Requirement type
12	Required courses
12	Total

Developmental courses note: A student may be required to enroll in developmental courses in reading, writing and math. A student's scores on the Accuplacer assessment will determine enrollment in developmental courses. The purpose of developmental courses is to prepare students for the demands of a college-level curriculum. *Credits may vary.*

Accreditation: Minnesota State Community and Technical College is accredited by the Higher Learning Commission, a regional accreditation agency recognized by the U.S. Department of Education. More information can be found at www.minnesota.edu/accreditation.

Curriculum requirement details

Required courses

Other requirements or restricted electives

Course #	Course title	Crds
CPTR1108	CPTR1108 - CISCO 1	3
CPTR1118	CPTR1118 - CISCO 2	3
CPTR2200	CPTR2200 - CISCO III	3
CPTR2208	CPTR2208 - CISCO IV	3

Course summaries

CPTR1108 — CPTR1108 - CISCO 1 (3 credits)

This is an introduction to networking. This course covers a network model, basic networking math, basic network devices and an introduction to network design.

CPTR1118 — CPTR1118 - CISCO 2 (3 credits)

This course covers additional OSI layer topics, network routing and auditing. Students learn and practice accepted router configuration procedures.

Prerequisites: CPTR1108

CPTR2200 — CPTR2200 - CISCO III (3 credits)

This course is a study of ethernet problems and solutions. The course covers ethernet segmentation options and VLAN configuration. The student will practice solving these problems.

Prerequisites: CPTR1118

CPTR2208 — CPTR2208 - CISCO IV (3 credits)

This course covers WAN configuration and remote access configuration. Students will practice design and configuration of systems to solve WAN and remote access problems.

Prerequisites: CPTR2200

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Program Plan — "Primary"

Locations: Online

1st Spring Term (3 credits)

Courses

Course #	Course title	Crds
CPTR1108	CPTR1108 - CISCO 1	3

2nd Fall Term (3 credits)

Courses

Course #	Course title	Crds
CPTR1118	CPTR1118 - CISCO 2	3

2nd Spring Term (3 credits)

Courses

Course #	Course title	Crds
CPTR2200	CPTR2200 - CISCO III	3

3rd Fall Term (3 credits)

Courses

Course #	Course title	Crds
CPTR2208	CPTR2208 - CISCO IV	3