

Associate of Applied Science Degree Engineering Technologies

Network Infrastructure Engineering Technology

Cisco Network Infrastructure Concentration (9428)

NOTE: CPET 1050 has a prerequisite of prior exposure to applied technologies or successful completion of the CIM or ET Tech Prep programs. Students can take CIMN 0970 Introduction to Electrical Devices and Controls to gain the required knowledge and experience, if necessary. Students with prior experience should contact the Engineering Technologies Office to schedule the proficiency exam for CIMN 0970.

First Semester:

CPET 1050	Assembling, Upgrading and Repairing Personal Computers	2
ENGL 1110*	English Composition I (A)	3
OR		
ENGL 1111	English Composition I (B)	4
MATH 1101	Technical Mathematics I	4
PHYS 1100	Applied Physics I	3
(1st 8 weeks)		
CNET 1100	Cisco Networking Technology I	2
ENGR 1000	Introduction to Engineering Technology	2
(2nd 8 weeks)		
CNET 1200	Cisco Networking Technology II	2

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Second Semester:

CNET 1050	Voice and Data Cabling	2
CPET 2050	Advanced Assembly and Repair of Personal Computers	2
ENGL 1121	English Composition II - Technical Focus	3
MATH 1201	Technical Mathematics II	4
PHYS 1200	Applied Physics II	3
(1st 8 weeks)		
CNET 1300	Cisco Networking Technology III	2
(2nd 8 weeks)		
CNET 1400	Cisco Networking Technology IV	2

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Third Semester:

CNET 2520	Cisco Networking V: Advanced Routing	4
CPET 1120	C Programming for Engineering Technology	3
ELEC 1100	Direct Current Circuit Analysis	3
ITIS 1030	Security Awareness	1
SPCH 1050**	Fundamentals of Public Speaking	2
OR		
SPCH 1150	Fundamentals of Interpersonal Communication	
Choose course(s) from the Technical Electives list		4

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Fourth Semester:

CNET 2540	Cisco Networking Technology VI: Remote Access	4
Choose course(s) from the Arts and Humanities Electives list		3
Choose course(s) from the Social and Behavioral Sciences Electives list		3
Choose course(s) from the Technical Electives list		2
(1st 8 weeks)		
CPET 1200	Visual Basic for Engineering Technology I	2
CPET 2550	Telecommunications Principles	2
(2nd 8 weeks)		
CPET 2200	Visual Basic for Engineering Technology II	2

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Program Total: 71

*English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the degree).

**Students may substitute either SPCH 1000 or SPCH 1100. One of these 3 credit courses may be required for students transferring to a four-year college.

Technical Electives: minimum 6 credits

CNET 2560	Cisco Networking Technology VII: Multi-layer Switching	4
CNET 2720	Cisco Network Security I: Managing Security	4
CNET 2740	Cisco Network Security II: Advanced Firewalls	3
ELEC 2821	Programmable Logic Controllers	3
ITIS 1355	Security+ and Security Essentials	3
ITON 2020	Supporting Microsoft Windows	2
ITON 2030	Windows Vista Configuration	2
ITON 2212	Managing and Maintaining MS Windows 2003 Server	2

Arts and Humanities Electives: minimum 3 credits

ARTS 1120, 2220, 2230; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 1215, 1800, 2200, 2250; PHIL 1500, 2000

Social and Behavioral Sciences Electives: minimum 3 credits

ANTH 1160; ECON 1150, 2500, 2600; GEOG 1500, 1600, 2500; HIST 1100, 1200, 2100, 2200, 2400; POLS 1300, 2500; PSYC 1500; SOCY 1150