

# 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
<b>ENGL 1110*</b> . . . . .	<b>English Composition I (A)</b> . . . . .	3
<b>OR</b>		
<b>ENGL 1111</b> . . . . .	<b>English Composition I (B)</b>	
MATH 1101 . . . . .	Technical Mathematics I . . . . .	4
PHYS 1100 . . . . .	Applied Physics I . . . . .	3
<b>(1st 8 weeks)</b>		
CNET 1100 . . . . .	Cisco Networking Technology I . . . . .	2
MECT 1000 . . . . .	Introduction to Technology . . . . .	2
<b>(2nd 8 weeks)</b>		
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
<b>(1st 8 weeks)</b>		
CNET 1300 . . . . .	Cisco Networking Technology III . . . . .	2
<b>(2nd 8 weeks)</b>		
CNET 1400 . . . . .	Cisco Networking Technology IV . . . . .	2

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#### Third Semester:

CNET 2520 . . . . .	Cisco Networking V: Advanced Routing . . . . .	4
ELEC 1100 . . . . .	Electrical Circuits I . . . . .	3
ITIS 1030 . . . . .	Security Awareness . . . . .	1
<b>SPCH 1050**</b> . . . . .	<b>Fundamentals of Public Speaking</b> . . . . .	2
<b>OR</b>		
<b>SPCH 1150</b> . . . . .	<b>Fundamentals of Interpersonal Communication</b>	
Choose course(s) from the Technical Electives list . . . . .		4
<b>(1st 8 weeks)</b>		
CPET 1100 . . . . .	C Programming for Engineering Technology I . . . . .	2
<b>(2nd 8 weeks)</b>		
CPET 2100 . . . . .	C Programming for Engineering Technology II . . . . .	2

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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
<b>(1st 8 weeks)</b>		
CPET 1200 . . . . .	Visual Basic for Engineering Technology I . . . . .	2
CPET 2550 . . . . .	Telecommunications Principles . . . . .	2
<b>(2nd 8 weeks)</b>		
CPET 2200 . . . . .	Visual Basic for Engineering Technology II . . . . .	2

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**Program Total: 72**

\*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 Controllers . . . . .	4
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, 2240; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 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