

# PROGRAM OF STUDY

## Computer Networking Associate in Science

The Computer Networking Program will prepare students for an entry-level position in an IT related industry with emphasis in either systems administration or network administration. The associate degree has two options: CCNA Network Administrator or MCSA Systems Administrator. It is designed for transfer to four-year colleges or universities. The program also offers the following Certificate of Specializations: Network Associate and Systems Associate. Classes are designed for first-time college students, re-entry students, and current industry employees requiring skill enhancement or upgrade training. Emphasis is placed on hands-on labs and case studies designed to apply principles and develop troubleshooting skills. Students can prepare for industry certifications from industries and organizations such as BICSI, Cisco, CompTIA, or Microsoft.

### **Student Learning Outcome:**

Design, implement, troubleshoot and maintain networking systems.

### **Program Requirements:**

		<b>Units</b>
CMPNET 131	Network Cabling Infrastructure	4 - 0
CMPNET 132	A+ Certification	4 - 0
CMPNET 133	Data Center	4 - 0

### **Plus four units from the following:**

		<b>Units</b>
CMPSCI 111	Introduction to Algorithms & Programming/Java	3 - 0
CMPSCI 111L	Introduction to Algorithms and Programming Lab	1 - 0
ESYST 101	Basic Electronics	4 - 0

### **Plus fourteen units from the following:**

		<b>Units</b>
CMPNET 151	CCNA Prep 1	7 - 0
	<b>or</b>	
CMPNET 154	CCNA R&S: Introduction To Networks	3.5 - 0
	<b>and</b>	
CMPNET 155	CCNA R&S: Routing & Switching Essentials	3.5 - 0
CMPNET 152	CCNA Prep 2	7 - 0
	<b>or</b>	
CMPNET 156	CCNA R&S: Scaling Networks	3.5 - 0
	<b>and</b>	
CMPNET 157	CCNA R&S: Connecting Networks	3.5 - 0
CMPNET 166	MCSA Prep 1	7 - 0
CMPNET 167	MCSA Prep 2	7 - 0

### **Recommended electives:**

		<b>Units</b>
CMPSCI 122	Computer Architecture and Assembly Language	3 - 0
CMPSCI 182	Data Structures and Program Design	3 - 0
CWE 188	Cooperative Work Experience Education	1 - 4
MATH 140	Introductory Statistics	4 - 0
	<b>or</b>	
MATH 140H	Introductory Statistics - Honors	4 - 0

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**Total Units**

**30**

PID 42