

# Networking and Server Technologies Emphasis

## Computer Information Technology Degree

Associate of Applied Science

The networking emphasis prepares students for careers in current and emerging information system technologies such as network design, network infrastructure, networking services and information security. Students completing the degree will find employment in areas ranging from small office/home office network administration to enterprise scale networks.

### Degree Outcomes

Students completing the degree will:

- Fulfill the requirements for the Associate of Applied Science.
- Demonstrate competency in their specified emphasis.

### Emphasis Outcomes

Students completing the emphasis will:

- Demonstrate the technical proficiency required to create and maintain small to medium sized networks through hands-on projects based on industry-approved scenarios.
- Have the technical proficiency required to configure and secure a network server.
- Have the ability to communicate and work effectively with members of a team and members of external groups.

### General Education Requirements

<b>Diversity</b>	<b>(3 credits)</b>
Refer to the 'Diversity' section of the general education description of this college catalog for a list of approved courses. Designated diversity courses can be used to fulfill other general education or major requirements.	
<b>Communications</b>	<b>3 credits</b>
Highly Recommended: BUS 107, COM 113 or 215	
<b>English</b>	<b>3 credits</b>
Highly Recommended: BUS 108, ENG 101 (or 113), 102 (or 114), 107 or 108	
<b>Human Relations</b>	<b>3 credits</b>
Recommended: MGT 212	
<b>Quantitative Reasoning</b>	<b>3 credits</b>
Choose from: MATH 126 or higher	
<b>Science</b>	<b>3 credits</b>
<b>Social Science/Humanities</b>	<b>3 credits</b>
<b>U.S. and Nevada Constitutions</b>	<b>3 credits</b>
<b>Total General Education Requirements</b>	<b>21 Credits</b>

### Core Requirements

CIT 114	IT Essentials.....	4
CIT 128	Introduction to Software Development.....	4
CIT 263	Introduction to IT Project Management .....	3
CSCO 120	CCNA Internetworking Fundamentals .....	4

**Total Core Requirements 15 Credits**

### Elective Requirements

Select at least 24 credits from the following courses:

<b>Linux Courses</b>	
CIT 173	Introduction to Linux..... (3)
CIT 174	Linux System Administration .....
CIT 175	Advanced Linux System Administration .....
<b>Microsoft Courses</b>	
CIT 211	MCSE I .....
CIT 212	MCSE II .....
CIT 213	MCSE III .....
CIT 214	MCSE IV .....
CIT 215	MCSE Electives-Directory Services Design .....
CIT 215	MCSE Electives-Infrastructure Design.....
CIT 215	MCSE Electives-Security Design.....
CIT 215	MCSE Electives-SQL Server .....
CIT 215	MCSE Electives-Exchange Server .....
CIT 215	MCSE Electives-Other .....
<b>Cisco Courses</b>	
CSCO 121	CCNA Routing Protocols and Concepts .....
CSCO 220	CCNA LAN Switching and Wireless Fundamentals.....
CSCO 221	CCNA WAN Fundamentals.....
CSCO 230	Fundamentals of Network Security .....
<b>Total Elective Requirements 24 Credits</b>	

**Total Degree Requirements 60 Credits**

### Suggested Course Sequence

First Year	Course #	Title	Credits
<b>1st Semester</b>			
Core	CIT 114	IT Essentials	4
Core	CSCO 120	CCNA Internetworking Fundamentals	4
English	Elective	Choose from recommended list	3
Quantitative Reasoning	MATH 126 or higher	Pre-Calculus I	3
<b>Total</b>			<b>14</b>
<b>2nd Semester</b>			
Core	CIT 128	Introduction to Software Development	4
Electives	CSCO 121 or	CCNA Routing Protocols and Concepts	(5)
	CIT 173 or	Introduction to Linux	(3)
	CIT 211 or	MCSE I	(4)
	CIT 212	MCSE II	(4)
Communications	Elective	Choose from recommended list	3
U.S. and Nevada Constitutions	Elective		3
<b>Total</b>			<b>13-15</b>
Second Year	Course #	Title	Credits
<b>1st Semester</b>			
Elective		Choose from list	11
Social Science/ Humanities/ Diversity	Elective		3
Human Relations	MGT 212	Leadership and Human Relations	3
<b>Total</b>			<b>17</b>
<b>2nd Semester</b>			
Elective		Choose from list	10
Core	CIT 263	Introduction to IT Project Management	3
Science	Elective		3
<b>Total</b>			<b>16</b>
<b>Degree Total</b>			<b>60-62</b>