

# Networking Specialist NS13

## Type

Associate of Applied Science, AAS

The Computer Information Systems - Networking Specialist program is a sequence of courses designed to provide students with an understanding of the concepts, principles, and techniques required in computer information processing. Graduates are to be competent in the general areas of humanities or fine arts, social or behavioral sciences, and natural sciences or mathematics, as well as in the technical areas of computer terminology and concepts, program design and development, and computer networking. Program graduates are qualified for employment as networking specialists.

## Program Approval

The CIS program is a Certified CISCO Network Academy.  
The CIS program is a member of the Microsoft IT Academy.

\* Students: Choose between either a Microsoft Specialization 8M13 or a Cisco Specialization 8C23

## Area I - Language Arts/Communications — 3.00 Hours

Item #	Name	Credits
<a href="#">ENGL 1101</a>	Composition and Rhetoric	3

## Area II - Social/Behavioral Sciences — 3.00 Hours

Item #	Name	Credits
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## Social/Behavioral Sciences — Hours

Item #	Name	Credits
<a href="#">ECON 1101</a>	Principles of Economics	3
<a href="#">ECON 2105</a>	Macroeconomics	3
<a href="#">ECON 2106</a>	Microeconomics	3
<a href="#">HIST 1111</a>	World History I	3
<a href="#">HIST 1112</a>	World History II	3
<a href="#">HIST 2111</a>	U.S. History I	3
<a href="#">HIST 2112</a>	U.S. History II	3
<a href="#">POLS 1101</a>	American Government	3
<a href="#">SOC1 1101</a>	Introduction to Sociology	3
<a href="#">PSYC 1101</a>	Introductory Psychology	3

## Area III - Natural Sciences/Mathematics — 3.00 Hours

Item #	Name	Credits
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## Mathematics — Hours

Item #	Name	Credits
MATH 1100	Quantitative Skills & Reasoning	3
MATH 1101	Mathematical Modeling	3
MATH 1103	Quantitative Skills & Reasoning	3
MATH 1111	College Algebra	3
MATH 1112	College Trigonometry	3
MATH 1113	Precalculus	3
MATH 1127	Introduction to Statistics	3
MATH 1131	Calculus I	4
MATH 1132	Calculus II	4
MATH 1133	Calculus III	4

## Natural Sciences — Hours

\* All corresponding labs are corequisite to meet degree requirements

Item #	Name	Credits
BIOL 1111	Biology I	3
BIOL 1111L	Biology Lab I	1
BIOL 1112	Biology II	3
BIOL 1112L	Biology Lab II	1
BIOL 2107	Biological Principles I	3
BIOL 2107L	Biological Principles I Lab	1
CHEM 1151	Survey of Inorganic Chemistry	3
CHEM 1151L	Survey of Inorganic Chemistry Lab	1
CHEM 1152	Survey of Organic Biochemistry	3
CHEM 1211	Chemistry I	3
CHEM 1212	Chemistry II	3
PHYS 1110	Conceptual Physics	3
PHYS 1111	Introductory Physics I	3
PHYS 1111L	Introductory Physics I Lab	1
PHYS 1112	Introductory Physics II	3
PHYS 1112L	Introductory Physics Lab	1

## Area IV - Humanities/Fine Arts — 3.00 Hours

Item #	Name	Credits
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## Humanities/Fine Arts (3 hrs) — Hours

Item #	Name	Credits
ARTS 1101	Art Appreciation	3
ENGL 2110	World Literature	3
ENGL 2130	American Literature	3
HUMN 1101	Introduction to Humanities	3
MUSC 1101	Music Appreciation	3
THEA 1101	Theater Appreciation	3

RELG 1101	World Religion	3
SPAN 1101	Introduction to Spanish	3

## Specific General Education Core Elective — 3.00 Hours

\* Choose one additional course from the complete Area I, II, III, or IV listings:

[General Education Courses](#)

## Occupational Courses — 14.00 Hours

Item #	Name	Credits
COMP 1000	Introduction to Computer Literacy	3
CIST 1001	Computer Concepts	4
CIST 1122	Hardware Installation & Maintenance	4
CIST 1601	Information Security Fundamentals	3

## Operating System Elective — 21.00 Hours

Choose one of the following:

Item #	Name	Credits
CIST 1130	Operating Systems Concepts	3
CIST 1135	Operating Systems & Virtual/Cloud Computing	4

## Guided Electives — 14.00 Hours

Item #	Name	Credits
	Guided Electives (14 credits)	14

## Introductory Networking Class — 4.00 Hours

\* Choose one of the following:

Item #	Name	Credits
CIST 1401	Computer Networking Fundamentals	4
CIST 2451	Introduction to Networks - CISCO	4

## Microsoft Specialization 8M13 — 16.00 Hours

Choose one of the following Specializations:

Item #	Name	Credits
CIST 2411	Microsoft Client	4
CIST 2412	Microsoft Server Installation & Maintenance	4
CIST 2413	Cloud and Data Foundations with MS Azure	4
	CIST 2414 or CIST 2420	4

## Cisco Exploration Specialization 8C23 — 16.00 Hours

Item #	Name	Credits
<a href="#">CIST 2451</a>	Introduction to Networks - CISCO	4
<a href="#">CIST 2452</a>	CISCO Switching, Routing, & Wiring Essentials	4
<a href="#">CIST 2453</a>	Enterprise Networking, Security, and Automation	4
	Guided Electives (4 credits)	4

## Cloud Computing — 16.00 Hours

Item #	Name	Credits
<a href="#">CIST 2480</a>	AWS Cloud Foundations	4
<a href="#">CIST 2481</a>	AWS Cloud Architecting	4
<a href="#">CIST 2482</a>	AWS Cloud Developing	4
	Guided Electives (4 credits)	4
	Minimum Credit Hours for Graduation	66