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## NETWORKING SPECIALIST ASSOCIATE IN APPLIED SCIENCE

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*Business, Management, Marketing & Technology  
Career Pathway*

### NETWORKING SPECIALIST – ASSOCIATE IN APPLIED SCIENCE (NESP.AAS)

Networking involves the hardware, software and communication channels necessary to allow computers to talk to each other. Many organizations now use computer networks and need networking specialists to maintain their networks. Several other occupations may utilize networking skills, such as office assistants, accountants, or managers. Students will study various components of computer hardware and networking. These courses prepare the student to take industry standard exams for both A+ and Network+ certifications. For specific information on these certifications, please talk to the instructors. Students who pass the appropriate related certification exams can also achieve the premier certifications of CompTIA Security+, Microsoft® Certified System Administrator (MCSA) and Certified Cisco Network Administrator (CCNA).

Minimum credits: .....	60
Minimum cumulative GPA: .....	2.0
Minimum grade in all courses: .....	2.0
Minimum JCC credits: .....	12
MACRAO agreement: .....	No

#### GENERAL EDUCATION REQUIREMENTS – (20 credits)

##### ADO 1: Write clearly, concisely and intelligibly (3 credits)

**Take the following:**

ENG 131 Writing Experience

ADO 2: Speak clearly, concisely and intelligibly (3 credits)

**Choose one of the following:**

COM 231 Communication Fundamentals

COM 240 Interpersonal Communication

##### ADO 3: Demonstrate computational skills and mathematical reasoning (3-5 credits)

**Take the following:**

MTH 120 Beginning Algebra or higher

##### ADO 4: Demonstrate scientific reasoning (4-5 credits)

**Choose one of the following:**

BIO 110 Introductory Biology

BIO 131 General Biology

BIO 132 Human Biology

BIO 155 Human Anatomy & Physiology

BIO 220 Microbiology

BIO 253 Human Anatomy and Physiology I

CEM 131 Fundamentals of Chemistry

CEM 141 General Chemistry I

GEL 160 Introduction to Geology

NSC 131 Contemporary Science

PHY 131 Conceptual Physics

PHY 151 Astronomy

PHY 231 College Physics I

PHY 251 Modern University Physics I

**ADO 5: Understand human behavior and social systems, the principles which govern them, and their implications for the present and future (3-4 credits)**

**Choose one of the following:**

ECN 231 Macroeconomics

ECN 232 Microeconomics

HIS 131 Western Civilization to 1555

HIS 132 Western Civilization 1555 to Present

HIS 231 Development of the US through the Civil War

HIS 232 Development of the US from the Civil War

HIS 235 20th Century History

PLS 141 American National Government

PSY 140 Introduction to Psychology

SOC 231 Principles of Sociology

##### ADO 6: Understand aesthetic experience and artistic creativity (3 credits)

**Choose one of the following:**

ART 111 Art History: Prehistoric to 1400

ART 112 Art History: Renaissance to Present

ENG 210 Introduction to Film

ENG 246 Short Story & Novel

ENG 247 Poetry & Drama

ENG 252 Shakespeare

ENG 254 Children's Literature

ENG 255 American Literature – 19th Century

ENG 256 American Literature – 20th Century

HUM 131 Cultural Connections

MUS 131 Understanding Music

THR 116 Introduction to Theatre

##### ADO 7: Think critically

**Program courses meet this requirement**

##### ADO 8: Make responsible decisions in personal and professional contexts (1-3 credits)

**Choose one of the following:**

HPF 160 Wellness

HPF 277 Stress Management

HPF 283 Managing Stress and Holistic Health

PHL 236 Ethics

##### ADO 9: Work productively with others, recognizing individual contributions to group success

**Program courses meet this requirement**

##### ADO 10: Understand and respect the diversity and interdependence of the world's peoples and cultures

**Program courses meet this requirement**



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### NETWORKING RELATED REQUIREMENTS - (3 credits)

**Take the following:**

BUA 100 Contemporary Business

### NETWORKING CORE REQUIREMENTS - (38 credits)

**Take the following:**

CIS 101 Introduction to Computer Systems  
CIS 174 PC Repair/A+ Hardware Component  
CIS 175 PC Repair/A+ Software Component  
CIS 176 A+ Certification Exam Preparation  
CIS 177 Network+/Networking Fundamentals  
CIS 179 Network+ Certification Exam Preparation  
CIS 281 Microsoft® Networking 1  
CIS 282 Microsoft® Networking 2  
CIS 283 Microsoft® Networking 3  
CIS 284 Microsoft® Networking 4  
CIS 285 Microsoft® Directory Service  
CIS 286 Designing a Secure Microsoft® Network  
CIS 287 Interconnecting Cisco Network Devices  
CIS 289 Networking Security/Security+