

NETWORK ADMINISTRATION & CYBER SECURITY

ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE

DESCRIPTION: This program prepares students for employment as network administrators, security professionals, consultants, or support professionals in Local Area Network (LAN) environments. Successful completion will equip students with the skills and knowledge to plan, install, secure, and maintain LANs, as well as perform maintenance and troubleshooting activities associated with Information Technology (IT) equipment and software. The program helps prepare students for multiple industry certifications.

GENERAL EDUCATION COURSES CREDITS: 9-12

ENG 111 *or* ENGLISH COMPOSITION I (3/3) *or*
ENG 121 ADVANCED ENGLISH COMPOSITION I (3/3)

ENG 123 *or* TECHNICAL COMMUNICATION (3/3) *or*
ENG 112 ENGLISH COMPOSITION II (3/3)

PLS 221 *or* AMERICAN GOVERNMENT REQUIREMENT (3-6/3-6)
PLS 222 *or*
HST 221 & HST 222

CORE PROGRAM REQUIREMENTS CREDITS: 52

BUS 262 PROJECT MANAGEMENT (3/3) ^A

CIS 140 INTRODUCTION TO MICROSOFT CLIENT OS (3/4) ^A

CIS 206 OBJECT ORIENTED PROGRAMMING (3/4)

CIS 241 INTRODUCTION TO WEB DESIGN MGT (3/4)

CIS 258 INTRODUCTION TO ENTERPRISE DATABASE (3/4) ^A

CNS 150 NETWORKING FUNDAMENTALS (3/4) ^A

CNS 155 INTRODUCTION TO ROUTING & SWITCHING (3/3)

CNS 170 PC REPAIR & MAINTENANCE (4/5) ^A

CNS 180 INTRODUCTION TO MICROSOFT SERVER (3/4) ^A

CNS 215 INTRODUCTION TO VIRTUALIZATION (3/4) ^A

CNS 220 ADVANCED MICROSOFT SERVER (3/4) ^A

CNS 230 INFORMATION SECURITY (3/4) ^A

CNS 240 OPEN SOURCE NETWORKING (3/4) ^A

CNS 245 ETHICAL HACKING & PENETRATION TESTING (3/4) ^A

CNS 252 POWERSHELL & SCRIPTING (3/4) ^A

CNS 260 AMAZON WEB SERVICES (AWS) CLOUD
PRACTITIONER (3/4) ^A

CNS 295 NETWORK ADMIN/CYBER SECURITY CAPSTONE (3/5) ^A

MINIMUM 61 CREDIT HOURS/78 CONTACT HOURS

NOTES:

^A Included in occupational specialty.

GPA of 2.0 or higher must be maintained in occupational specialty courses

NETWORK ADMINISTRATION & CYBER SECURITY

ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE

SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER)

CREDITS: 16

CIS 140 INTRODUCTION TO MICROSOFT CLIENT OS (3/4)
CNS 150 NETWORKING FUNDAMENTALS (3/4)
CNS 170 PC REPAIR & MAINTENANCE (4/5)

ENG 111 *or* ENGLISH COMPOSITION I (3/3) *or*
ENG 121 ADVANCED ENGLISH COMPOSITION I (3/3)

PLS 221 *or* AMERICAN GOVERNMENT REQUIREMENT (3-6/3-6)
PLS 222 *or*
HST 221 & HST 222

YEAR 1 (SPRING SEMESTER)

CREDITS: 15

CIS 206 OBJECT ORIENTED PROGRAMMING (3/4)
CIS 241 INTRODUCTION TO WEB DESIGN MGT (3/4)
CNS 155 INTRODUCTION TO ROUTING & SWITCHING (3/3)
CNS 180 INTRODUCTION TO MICROSOFT SERVER (3/4)

ENG 123 *or* TECHNICAL COMMUNICATION (3/3) *or*
ENG 112 ENGLISH COMPOSITION II (3/3)

YEAR 2 (FALL SEMESTER)

CREDITS: 15

CIS 258 INTRODUCTION TO ENTERPRISE DATABASE (3/4)
CNS 215 INTRODUCTION TO VIRTUALIZATION (3/4)
CNS 220 ADVANCED MICROSOFT SERVER (3/4)
CNS 230 INFORMATION SECURITY (3/4)
CNS 240 OPEN SOURCE NETWORKING (3/4)

YEAR 2 (SPRING SEMESTER)

CREDITS: 15

BUS 262 PROJECT MANAGEMENT (3/3)
CNS 245 ETHICAL HACKING & PENETRATION TESTING (3/4)
CNS 252 POWERSHELL & SCRIPTING (3/4)
CNS 260 AMAZON WEB SERVICES (AWS) CLOUD
PRACTITIONER (3/4)

CNS 295 NETWORK ADMIN/CYBER SECURITY CAPSTONE (3/5)