

Computer Network Systems & Security, AAS 2023-2024 Catalog

Award Granted Upon Completion: Associate in Applied Science in Computer Network Systems & Security

Credits/Contacts Required: 65/67

Major code: 03/324

CIP Code: 151202

Description

As more information is made available on networks, protecting that data becomes even more important. This intense "hands-on" program prepares graduates for employment in information technology fields ranging from PC bench technician, routed network technician, wireless network technician, security specialist, computer forensics specialist, network administrator, web server/database administrator or management information specialist, or information technology administrator positions. A Co-op/Internship is required. Graduates of this program receive certification as an Information Security Professional from the Committee on National Security Systems.

General Education Requirements (Min 15 Credits)

- ENGL 101 - Rhetoric & Composition **Credit(s): 3**
- BUSN 177 - Mathematics of Business **Credit(s): 3 OR**
- MATH 105 - Intermediate Algebra **Credit(s): 4 OR**
- MATH 107 - Liberal Arts Mathematics **Credit(s): 4**
- XXXX xxx - Social & Behavioral Science or Humanities Elective **Credit(s): 3**
- XXXX xxx - General Education Electives **Credit(s): 5-6**

Program Requirements (Min 50 Credits)

- CNSS 105 - Digital Logic Principles **Credit(s): 4**
- CNSS 130 - Introduction to Networks **Credit(s): 4**
- CNSS 150 - A plus Computer Maintenance **Credit(s): 4**
- CNSS 220 - Network Design **Credit(s): 4**
- CNSS 225 - Wireless Systems **Credit(s): 4**
- CNSS 230 - Introduction to Unix Using Linux **Credit(s): 4**
- CNSS 231 - Advanced Linux System Administration **Credit(s): 4**
- CNSS 250 - Windows Networking I **Credit(s): 4**
- CNSS 251 - Windows Networking II **Credit(s): 4**
- CNSS 260 - Network Security **Credit(s): 4**
- CNSS 272 - CNSS Co-op Internship **Credit(s): 1-8**
- XXXX xxx - Approved Electives **Credit(s): 7 ****

**** Approved Electives (Min 7 Credits)**

- CIS 101 - Computer Concepts & Applications **Credit(s): 4**
- CIS 235 - Mobile App Development **Credit(s): 3**
- CNSS 110 - Information Security Principles **Credit(s): 3**
- CNSS 115 - Cyber Ethics **Credit(s): 3**
- CNSS 245 - SQL Server **Credit(s): 4**
- CNSS 262 - Web Server Administration **Credit(s): 4**
- CNSS 273 - CNSS Co-op Internship **Credit(s): 1-8 #**
- CNSS 274 - CNSS Co-op Internship **Credit(s): 1-8 #**
- CNSS 284 - CNSS Special Topics **Credit(s): 4**
- ELEC 170 - Digital I Fundamentals **Credit(s): 4**

NOTES:

Internships and Co-ops require that the student pass a criminal background check.

* Additional courses as needed to reach 15 credits and 5 courses.

Suggested Sequences Per Semester

First Semester

- CNSS 105 - Digital Logic Principles **Credit(s): 4**
- CNSS 130 - Introduction to Networks **Credit(s): 4**
- CNSS 150 - A plus Computer Maintenance **Credit(s): 4**
- ENGL 101 - Rhetoric & Composition **Credit(s): 3**

First Semester Total - Credit(s): 15 | Contacts: 17

Second Semester

- CNSS 220 - Network Design **Credit(s): 4**
- CNSS 230 - Introduction to Unix Using Linux **Credit(s): 4**
- BUSN 177 - Mathematics of Business **Credit(s): 3 OR**
- MATH 105 - Intermediate Algebra **Credit(s): 4 OR**
- MATH 107 - Liberal Arts Mathematics **Credit(s): 4**
- XXXX xxx - Approved Elective **Credit(s): 3 ****
- XXXX xxx - Social & Behavioral Science or Humanities Elective **Credit(s): 3 ***

Second Semester Total - Credit(s): 17-18 | Contacts: 17-18

Third Semester

- CNSS 231 - Advanced Linux System Administration **Credit(s): 4**
- CNSS 250 - Windows Networking I **Credit(s): 4**
- CNSS 272 - CNSS Co-op Internship **Credit(s): 1-8 (3 or minimum)**
- XXXX xxx - Approved Electives **Credit(s): 4 ****
- XXXX xxx - General Education Elective **Credit(s): 3 ***

Third Semester Total - Credit(s): 18 | Contacts: 18

Fourth Semester

- CNSS 225 - Wireless Systems **Credit(s): 4**
- CNSS 251 - Windows Networking II **Credit(s): 4**
- CNSS 260 - Network Security **Credit(s): 4**
- XXXX xxx - General Education Elective **Credit(s): 3 ***

Fourth Semester Total - Credit(s): 15 | Contacts: 15