



Pine Technical & Community College

# Cyber Security

- Associate of Applied Science
- Diploma

The Cyber Security diploma and AAS provides students training in the technologies, theories, and skills used in cyber operations and computer security. Students learn about legal issues governing the authorized conduct of cyber operations, how to properly install, configure, manage, and monitor various operating systems and security appliances. Additionally, students get hand's on with design, installation, configuration, and troubleshooting multiple types of information technology networks and systems. At the conclusion of the program, students can be immediately employed, or transfer to pursue a bachelor's degree in information assurance or cybersecurity.

## Recommended Course Sequence for Completion in 2 Years

### Fall Semester 1

CSEC 1300 Cybersecurity Essentials .....	2
*COCP 1250 Computer Hardware Support .....	3
*COCP 1209 Workstation Operating Systems .....	3
*COCP 1213 Introduction to Programming .....	3
COCP 1220 Network Administration 1 .....	3
<b>Total Credits</b> .....	<b>14</b>

### Spring Semester 1

*COCP 1211 Network Security .....	3
COCP 1221 Network Administration 2 .....	3
COCP 1251 Computer Software Support .....	3
*MATH 1260 College Algebra or MATH 1256 Mathematical Thinking .....	3
MnTC Goal Area 9 .....	3
<b>Total Credits</b> .....	<b>15</b>

### Fall Semester 2

CSEC 2320 Advanced Network Defense .....	3
*CSEC 2310 Network Intrusion .....	3
*COCP 1253 MS Server Operating System .....	3
ENGL 1276 College Composition .....	4
MnTC Goal Area 3 - BIOL .....	3
<b>Total Credits</b> .....	<b>16</b>

**Cyber Security Diploma Earned!**

### Spring Semester 2

*COCP 2230 Linux Administration .....	3
*COCP 2258 Project Management .....	3
CSEC 2313 Firewalls & VPNs .....	3
*BUSN 1110 Introduction to Business .....	3
MnTC Goal Area 5 - HIST/PSYC .....	3
<b>Total Credits</b> .....	<b>15</b>

**TOTAL DEGREE CREDITS** ..... **60**

**Cyber Security AAS Earned!**

\*Check with our Transfer Specialist to determine if any knowledge or skills learned outside of the classroom may qualify for Credit for Prior Learning (CPL) college credit.

### Career Outlook

Employment of information security analysts is projected to grow 33 percent from 2020 to 2030, much faster than the average for all occupations.

Demand for information security analysts is expected to be very high. Cyberattacks have grown in frequency, and analysts will be needed to come up with innovative solutions to prevent hackers from stealing critical information or creating problems for computer networks.

[www.pine.edu/apply](http://www.pine.edu/apply)

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