



Pine Technical & Community College

CYBER SECURITY & NETWORK ADMINISTRATION

3 YEARS - 2 MAJORS

The Cyber Security and Network Administration Dual Major A.A.S. provides students with comprehensive training in the technologies, theories, and skills essential for cyber and network operations. Students learn to properly install, configure, manage, and monitor various operating systems, networking, and security appliances. Students gain hands-on experience in the design, installation, configuration, and troubleshooting of multiple types of information technology networks and systems. Additionally, students are prepared for immediate employment or can transfer to pursue a bachelor's degree in network administration, information assurance, or cyber security. Courses can be completed in full or part-time credit loads within 2-3 years or 5-7 semesters.



COLLEGE CATALOG 2026-27



24 Credits
Earns a Certificate



36 Credits
Earns a Diploma



65 Credits
Earns an AAS



71 Credits
Earns an AAS



\$268 per Credit
on Average



18:1 Student/Instructor
Ratio on Average

Program Delivery Mode: On-Campus

Network Technician Certificate

(24 credits)

General Education Courses

MATH 1260 College Algebra or
MATH 1256 Mathematical Thinking3

Technical Education Courses

COCP 1209 Workstation Operating System3
COCP 1211 Network Security3
COCP 1213 Introduction to Programming3
COCP 1220 Network Admin I.....3
COCP 1250 Computer Hardware Support3
COCP 1251 Computer Software Support.....3
COCP 1253 Microsoft Server Operating System3
Total Credits 24

Cyber Security Diploma

(12 additional credits)

General Education Courses

ENGL 1276 College Composition or
ENGL 1277 Technical Communications4

Technical Education Courses

CSEC 1300 Cybersecurity Essentials2
COCP 1221 Network Administration II3
CSEC 2310 Network Intrusion.....3
Total Credits 36

Network Administration AAS

(29 additional credits)

General Education Courses

MnTC Goal Areas (choose two) 3, 5, 99

Technical Education Courses

BUSN 1110 Introduction to Business.....3
COCP 1222 Networking Admin III.....3
COCP 1223 Networking Admin IV.....3
COCP 2204 Windows Server Administration3
COCP 2230 Linux Administrations3
COCP 2258 Project Management3
COCP 1224 Cisco CCNA Certification Study Course2
Total Credits 65

Cyber Security AAS

(6 additional credits)

Technical Education Courses

COCP 2313 Firewalls and VPNs.....3
CSEC 2320 Advanced Network Defense3
Total Credits 71

Recommended Course Sequence for Completion in 3 Years

First Fall

CSEC 1300 Cybersecurity Essentials	2
COCP 1209 Workstation Operating System I	3
COCP 1213 Introduction to Programming	3
COCP 1220 Networking Administration I	3
COCP 1250 Computer Hardware Support	3
Total Credits	14

First Spring

COCP 1211 Network Security	3
COCP 1221 Network Administration II	3
COCP 1251 Computer Software Support	3
COCP 2230 Linux Administration	3
COCP 2258 Project Management	3
Total Credits	15

First Summer

ENGL 1276 Technical Composition or	
ENGL 1277 College Composition	4
MnTC Goal Area 3, 5, or 9 (choose two)	3
Total Credits	7

Second Fall

CSEC 2310 Network Intrusion	3
CSEC 2320 Advanced Network Defense	3

COCP 1222 Network Administration III	3
COCP 1253 Microsoft Server Operating System I	
(first 8 weeks)	3
MnTC Goal Area 3, 5, or 9 (choose two)	3
Total Credits	15

Second Spring

BUSN 1110 Introduction to Business	3
CSEC 2313 Firewalls and VPNs	3
COCP 1223 Network Administration IV	3
COCP 1224 CCNA Prep Exam	2
COCP 2204 Windows Server Administration	3
Total Credits	14

Second Summer

MATH 1256 Mathematical Thinking or	
MATH 1260 College Algebra	3
MnTC Goal Area 3, 5, or 9 (choose two)	3
Total Credits	14

TOTAL DEGREE CREDITS **71**

Cyber Security Diploma Earned!

Cyber Security AAS Earned!

Network Technician Certificate Earned!

Network Administration AAS Earned!

Career Outlook

Possible Job Titles

- Network Administrator
- Cybersecurity Analyst
- Information Security Specialist



28%

MN Projected
Growth % (2022-2032)



\$130,700

MN Median Annual
Wage (\$) (approx.)

*Data from ONET & MN DEED

Get the Credit You Deserve!

What is Credit for Prior Learning (CPL)?

PTCC awards college credit for knowledge gained outside the classroom, including work and life experience.

You may qualify through:

- Job skills/work experience
- Employer training
- Military education
- Industry certifications
- Volunteer service
- Self-study
- High school articulated credit
- Standardized exams

Getting Started is Easy:

- Visit mycpl.minnstate.edu to view eligible courses and requirements.
- Contact records@pine.edu for guidance on options, assessments, and any applicable fees.

New to PTCC? Visit Campus!

- Take a campus tour
- Learn about scholarships
- Meet the admissions team
- Tour housing and The REC

Book an Appointment to Explore PTCC!



Sign up to visit in person, or virtually, to learn more about PTCC programs, admissions requirements, housing options, and more.

www.pine.edu/visit



Apply Today!

www.pine.edu/apply

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