

Information Technology Management

Network Management & Security Emphasis

Associate of Applied Science (AAS) Degree

Technical Credits 57

MnTC General Education Credits..... 15

Total Credits 72

Program Information

The Anoka Technical College Associate in Applied Science (AAS) degree in Information Technology with a concentration in Network Management and Security emphasis is a 72-credit program designed to prepare graduates to successfully compete for high-paying, rewarding careers in the high demand IT fields both today and in the future.

This unique program allows technical specialization in Network Management and Security while the common core courses and required electives from other options build a broad IT foundation needed to understand the terminology and methodologies of other IT specialties in the workplace.

The Network Management and Security emphasis focuses on the theory and practice of designing, deploying, and managing network technologies, network convergence, and network security.

The program requirements were determined through consultation with employers, those working in the industry, technical training professionals, and those currently seeking training and retraining for IT careers.

Program Learning Outcomes

1. Apply critical thinking skills in the identification, analysis and resolution of information technology problems.
2. Exhibit interpersonal skills and a professional attitude while working in an information technology environment.
3. Clearly express ideas and information in written and spoken form.
4. Analyze, design and document system specifications to meet client needs.
5. Apply project management techniques to solve business problems.
6. Collaborate with a team to design and develop customer software-based solutions and integrate them into the user environment.
7. Apply logical reasoning to a problem.

Industry and Career Outlook

Anoka Technical College Information Technology graduates will be specialists in their area of emphasis and will also have a broad base of foundational knowledge from the common core courses that span the three emphasis areas. Professional standards, proper methodology and project management will be emphasized throughout the courses.

Wage information is available from the [Minnesota Department of Employment and Economic Development](#)

Program Start Dates

Fall Semester.....August, October
Spring Semester..... January, March

Course Prerequisites

Some courses in this program may require a prerequisite. Please see [course descriptions](#) for more details.

MnTC General Education Requirements

This program requires completion of the following fifteen credits of general education from at least three goal areas of the Minnesota Transfer Curriculum (MnTC). Refer to the [MnTC course list](#) for elective courses:

- ENGL 2105 Business and Technical Writing (Goal 1&2) 4
- PHIL 1200 Technology, Ethics and Society (Goal 9)..... 3
- MnTC MATH course (Goal 4) 3
- MnTC Electives..... 5

Program Sequence Fall Start

Fall Semester	18
<input type="checkbox"/> BDAT 1005 Data Analysis Fundamentals.....	2
<input type="checkbox"/> ITEC 1003 Networking Fundamentals.....	2
<input type="checkbox"/> ITEC 1011 Programming Logic & Design.....	4
<input type="checkbox"/> ITEC 1016 Web Programming Technologies.....	4
<input type="checkbox"/> TLIT 1005 Technology Fundamentals.....	3
<input type="checkbox"/> MnTC Elective	3

Spring Semester..... 20

<input type="checkbox"/> ENGL 2105 Business and Technical Writing	4
<input type="checkbox"/> ITEC 2407 Internetworking Device I.....	4
<input type="checkbox"/> ITEC 2408 Internetworking Device II.....	4
<input type="checkbox"/> ITEC 2430 Firewall Security	4
<input type="checkbox"/> ITEC 2450 Ethical Hacking	4

Fall Semester

<input type="checkbox"/> ITEC 2207 Windows Server Administration.....	4
<input type="checkbox"/> ITEC 2215 Linux/Web Server Administration.....	4
<input type="checkbox"/> ITEC 2411 Network Scripting.....	2
<input type="checkbox"/> ITEC 2415 Virtualization Technologies	4
<input type="checkbox"/> ITEC 2440 IDS/IPS and Auditing	4

Spring Semester..... 16

<input type="checkbox"/> ITEC 1025 Project Management	4
<input type="checkbox"/> ITEC 2901 Integrated Capstone Project.....	4
<input type="checkbox"/> PHIL 1200 Technology, Ethics and Society	3
<input type="checkbox"/> MnTC Electives.....	5

Program Sequence Spring Start

Spring Semester..... 18

<input type="checkbox"/> BDAT 1005 Data Analysis Fundamentals.....	2
<input type="checkbox"/> ITEC 1003 Networking Fundamentals.....	2
<input type="checkbox"/> ITEC 1011 Programming Logic & Design.....	4
<input type="checkbox"/> ITEC 1016 Web Programming Technologies.....	4
<input type="checkbox"/> TLIT 1005 Technology Fundamentals.....	3
<input type="checkbox"/> PHIL 1200 Technology, Ethics and Society	3

Fall Semester

<input type="checkbox"/> ITEC 2207 Windows Server Administration.....	4
<input type="checkbox"/> ITEC 2215 Linux/Web Server Administration.....	4
<input type="checkbox"/> ITEC 2411 Network Scripting.....	2
<input type="checkbox"/> ITEC 2415 Virtualization Technologies	4
<input type="checkbox"/> ITEC 2440 IDS/IPS and Auditing	4



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Fall Semester	16
<input type="checkbox"/> ITEC 1025 Project Management	4
<input type="checkbox"/> ITEC 2901 Integrated Capstone Project.....	4
<input type="checkbox"/> MnTC Electives.....	8

Graduation Requirements

Students must earn a cumulative 2.0 GPA or higher to be eligible for graduation from this program.

Faculty Contact

[Tracy Hoffman](#) 763-576-4198

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu

Also see AAS degrees and/or diplomas in: Business Data Analyst, Network Management and Security, Software Development, Web Design & Development, and IT Support certificate