

Program Information

The Anoka Technical College Associate in Applied Science (AAS) degree in Information Technology with a concentration in Network Management and Security 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 Web Design and Development 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. Anoka Technical College Web Design and Development emphasis graduate will be a specialist in one of the areas of emphasis in Information Technology and will also have a broad IT foundation needed to understand the terminology and methodologies of other IT specialties in the workplace.

Web Developers are responsible for front and back-end web development. On the front-end, the web developer uses a combination of HTML, CSS, and scripting languages to build everything a user sees and interacts with on a website. On the back-end, they develop the application; interact with the server, and database that make up the foundational structure of an interactive website using various web technologies. 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.

The IT degree has an initial curriculum of over 90 courses in seven career areas:

- Database Design & Development
- Game Programming
- Mobile Development
- Network Analyst
- Network Management & Security
- Software Development
- Web Design & Development

Graduates will be encouraged to take advantage of access to corporate recruitment and IT recruiting firms. Internships and work-study positions will also be available. The IT graduate will be highly employable. The Associate of Applied Science (AAS) degree includes General Education credits, which broaden knowledge beyond what is required in the technical field and places the student on track for future managerial positions.

Program Learning Outcomes

By completing this program, students will achieve the following 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.

Course Prerequisites

Some courses may require appropriate test score or completion of basic math, basic English and/or reading courses with a "C" or better.

ITEC 1002, ITEC 1016, ITEC 1070, ITEC 2100, and TLIT 1005 are first semester courses and prerequisite to other courses in this major.

Graduation Requirements

All Anoka Technical College students seeking an Associate in Applied Science (AAS), diploma, or certificate must meet the cumulative grade point average (GPA) of 2.0 or higher.

Transfer Opportunities

To see how credits from this program may transfer into other Anoka Technical College programs or into a program at another college, visit:

- [Minnesota Transfer](http://www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search): (www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search)
- [Anoka Technical College transfer student](http://www.anokatech.edu/BecomeStudent/Transfers.aspx): (www.anokatech.edu/BecomeStudent/Transfers.aspx)

Industry Information

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 seven emphasis areas. Professional standards, proper methodology and project management will be emphasized throughout the courses.

Wages/Outlook/Advancement

Wage information is available from the [Minnesota Department of Employment and Economic Development](http://mn.gov/deed/job-seekers/job-outlook/index.jsp) (http://mn.gov/deed/job-seekers/job-outlook/index.jsp).

Web Design & Development

Emphasis

Associate of Applied Science (AAS) Degree

Technical Education: 57 Credits

<input type="checkbox"/>	ITEC 1002	Networking Fundamentals.....	3
<input type="checkbox"/>	ITEC 1016	Web Development Technologies	4
<input type="checkbox"/>	ITEC 1025	Project Management	4
<input type="checkbox"/>	ITEC 1035	Documentation Standards.....	2
<input type="checkbox"/>	ITEC 1070	IT Support.....	1
<input type="checkbox"/>	ITEC 2100	Programming Logic & Design.....	4
<input type="checkbox"/>	ITEC 2120	Database Design & SQL.....	4
<input type="checkbox"/>	ITEC 2145	Database Programming.....	4
<input type="checkbox"/>	ITEC 2215	Linux/Web Server Administration	4
<input type="checkbox"/>	ITEC 2311	User Interface Experience.....	4
<input type="checkbox"/>	ITEC 2317	Web Interactivity Tools.....	4
<input type="checkbox"/>	ITEC 2340	Scripting languages	4
<input type="checkbox"/>	ITEC 2600	Application Development.....	4
<input type="checkbox"/>	ITEC 2601	Database Application Development	4
<input type="checkbox"/>	ITEC 2901	Integrated Capstone Project.....	4
<input type="checkbox"/>	TLIT 1005	Technology Fundamentals	3

General Education/MnTC Requirements: 15 Credits

Fifteen (15) general education credits of Minnesota Transfer Curriculum (MnTC) are required. Student is required to take one transferable course from MnTC Goal Area 4 and the following courses:

<input type="checkbox"/>	ENGL 2105	Business and Technical Writing.....	4
<input type="checkbox"/>	PHIL 1200	Technology, Ethics and Society	3
<input type="checkbox"/>	General Education/MnTC	8

Also see AAS degrees and diplomas in: Business Data Analyst, Database Design & Development, Game Programming, Mobile Development, Network Analyst, Network Management and Security, Software Development, and Web Design & Development

Start Dates

Fall Semester.....August, October
Spring Semester..... January, March
(Also multiple start options each semester.)

Faculty Contact

Lisa Hubbard	763-576-4085
Julie Myers	763-576-4072

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

Sample Program Sequence

Full Time

First Semester

1st YEAR	ITEC 1002.....	3
	ITEC 1016.....	4
	ITEC 1070.....	1
	ITEC 2100	4
	TLIT 1005	3
	TOTAL	15