

Program Information

The Anoka Technical College Associate in Applied Science (AAS) degree in Information Technology with an emphasis in Web Design and Development 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 and 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 in career areas of concentration:

- Network Management and 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.

BDAT 1005, ITEC 1003, ITEC 1011, ITEC 1016, 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:](#)
- [Anoka Technical College transfer student](#)

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 three 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](#).

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:

- ENGL 2105 Business and Technical Writing..... 4
- PHIL 1200 Technology, Ethics and Society 3
- General Education/MnTC 8

Start Dates

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

Program Sequence

First Semester	15
<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



Web Design & Development

Emphasis

Associate of Applied Science (AAS) Degree

After completing the 15 credit core curriculum, IT students work with a faculty advisor to plan their course sequence.

- ITEC 1025 Project Management 4
- ITEC 1035 Documentation Standards 2
- ITEC 2120 Database Design & SQL..... 4
- ITEC 2215 Linux/Web Server Administration 4
- ITEC 2311 User Interface Experience..... 4
- ITEC 2317 Web Interactivity Tools..... 4
- ITEC 2340 Scripting languages 4
- ITEC 2520 Mobile Application Development..... 4
- ITEC 2600 Application Development..... 4
- ITEC 2601 Database Application Development 4
- ITEC 2901 Integrated Capstone Project..... 4

Faculty Contact

[Lisa Hubbard](#)..... 763-576-4085

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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, and Web Design & Development, and IT Support certificate