Information Technology Management
Web Design & Development 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 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 under-stand 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.

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**
☐ BDAT 1005   Data Analysis Fundamentals...............................2
☐ ITEC 1003   Networking Fundamentals...................................2
☐ ITEC 1011   Programming Logic & Design.............................4
☐ ITEC 1016   Web Programming Technologies........................4
☐ TLIT 1005   Technology Fundamentals 3
☐ MnTC Electives...3
Spring Semester...**20**
☐ ENGL 2105   Business and Technical Writing 4
☐ ITEC 2120   Database Design and SQL 4
☐ ITEC 2311   User Experience & Interface Design 4
☐ ITEC 2600   Application Development 4
☐ ITEC 2601   Database Application Development 4
Fall Semester **16**
☐ ITEC 2215   Linux/Web Server Administration 4
☐ ITEC 2340   Scripting Languages 4
☐ ITEC 2317   Web Interactivity Tools.......................................4
☐ ITEC 2520   Mobile Application Developmen........................4
Spring Semester...**18**
☐ ITEC 1025   Project Management 4
☐ ITEC 1035   Documentation Standards...................................2
☐ ITEC 2901   Integrated Capstone Project...............................4
☐ PHIL 1200   Technology, Ethics and Society 3
☐ MnTC Electives..5

Program Sequence Spring Start

Spring Semester...**18**
☐ BDAT 1005   Data Analysis Fundamentals...............................2
☐ ITEC 1003   Networking Fundamentals...................................2
☐ ITEC 1011   Programming Logic & Design.............................4
☐ ITEC 1016   Web Programming Technologies........................4
☐ TLIT 1005   Technology Fundamentals 3
☐ PHIL 1200   Technology, Ethics and Society 3

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☐ ITEC 1035   Documentation Standards................................... 2
☐ ITEC 2901   Integrated Capstone Project............................... 4
☐ 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

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

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

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