

Program Information

The Anoka Technical College Software Development diploma is a 57-credit program is designed to prepare graduates to successfully compete for high-paying, rewarding careers in the high-demand field of IT software development.

The Software Development diploma provides students with the knowledge to become part of a software application team that builds applications to solve industry needs. Students develop both the front-end graphical user interface (GUI) as well as the software code and back-end database for business applications. Students are given the opportunity to collaborate in a team environment for development and practice documenting and critiquing code. Collaboration and communication are emphasized as a part of the software development coursework.

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.

This unique diploma program allows technical specialization in Software Development while the common core courses and required electives from other specializations build the broad IT foundation needed to understand the terminology and methodologies of other IT specialties in the workplace.

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.

Career Opportunities

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.

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

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

<input type="checkbox"/> ITEC 1025	Project Management..... 4
<input type="checkbox"/> ITEC 1035	Documentation Standards..... 2
<input type="checkbox"/> ITEC 2105	JAVA Programming 4
<input type="checkbox"/> ITEC 2120	DB Design & SQL..... 4
<input type="checkbox"/> ITEC 2311	User Interface Experience..... 4
<input type="checkbox"/> ITEC 2340	Scripting languages 4
<input type="checkbox"/> ITEC 2520	Mobile Application Development 4
<input type="checkbox"/> ITEC 2600	Application Development..... 4
<input type="checkbox"/> ITEC 2601	Database Application Development 4
<input type="checkbox"/> ITEC 2700	Artificial Intelligence 4
<input type="checkbox"/> ITEC 2901	Integrated Capstone Project..... 4

Graduation Requirements

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

Faculty Contact

[Gerard Kne](#)..... 763-576-4044

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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AnokaTech.edu