

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.

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.

Program Sequence Fall Start

Fall 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
Spring Semester	16
<input type="checkbox"/> ITEC 2120 Database Design and SQL.....	4
<input type="checkbox"/> ITEC 2311 User Experience & Interface Design.....	4
<input type="checkbox"/> ITEC 2600 Application Development	4
<input type="checkbox"/> ITEC 2601 Database Application Development	4
Fall Semester	16
<input type="checkbox"/> ITEC 2105 Java Programming	4
<input type="checkbox"/> ITEC 2340 Scripting Languages	4
<input type="checkbox"/> ITEC 2520 Mobile Application Development.....	4
<input type="checkbox"/> ITEC 2700 Artificial Intelligence	4
Spring Semester	10
<input type="checkbox"/> ITEC 1025 Project Management	4
<input type="checkbox"/> ITEC 1035 Documentation Standards.....	2
<input type="checkbox"/> ITEC 2901 Integrated Capstone Project.....	4

Program Sequence Spring Start

Spring 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
Fall Semester	16
<input type="checkbox"/> ITEC 2105 Java Programming	4
<input type="checkbox"/> ITEC 2340 Scripting Languages	4
<input type="checkbox"/> ITEC 2520 Mobile Application Development.....	4
<input type="checkbox"/> ITEC 2700 Artificial Intelligence	4
Spring Semester	16
<input type="checkbox"/> ITEC 2120 Database Design and SQL.....	4
<input type="checkbox"/> ITEC 2311 User Experience & Interface Design.....	4
<input type="checkbox"/> ITEC 2600 Application Development	4
<input type="checkbox"/> ITEC 2601 Database Application Development	4
Fall Semester	10
<input type="checkbox"/> ITEC 1025 Project Management	4
<input type="checkbox"/> ITEC 1035 Documentation Standards.....	2
<input type="checkbox"/> ITEC 2901 Integrated Capstone Project.....	4



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(continued)

2023-2024

Software Development

Diploma

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