

Program Information

The Anoka Technical College Database Design & Development diploma is a 57-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 Database Design & 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 Database Design & Development diploma graduates will be specialists 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.

The Database Design and Development diploma teaches students how to use industry standard software to both design and develop databases. Students also will learn how to develop software applications that use a back-end database. Standardized database design is emphasized. Students will collaborate on a development team as a part of their 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.

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.

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.

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](https://mn.gov/deed/job-seekers/job-outlook/) (https://mn.gov/deed/job-seekers/job-outlook/).

Gainful Employment

Follow this link for a [Gainful Employment Report](#).

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 2105	JAVA Programming	4
<input type="checkbox"/> ITEC 2120	DB Design & SQL.....	4
<input type="checkbox"/> ITEC 2140	Business Intelligence	4
<input type="checkbox"/> ITEC 2145	Database Programming.....	4
<input type="checkbox"/> ITEC 2220	Database Administration & Security	4



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(continued)

2018-2019

Database Design & Development

Diploma

- ITEC 2501 Android Application Development..... 4
- ITEC 2600 Application Development..... 4
- ITEC 2601 Database Application Development 4
- ITEC 2901 Integrated Capstone Project..... 4
- TLIT 1005 Technology Fundamentals..... 3

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

[Vicki Baumgartner](mailto:Vicki.Baumgartner@anokatech.edu)..... 763-576-4146
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

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



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