

Business Data Analyst

Associate of Applied Science (AAS) Degree

Technical Requirements	45
General Education/MnTC	15
Total Credits	60

Program Information

The Data Analyst graduate will receive the knowledge and skills necessary for employment and growth in entry-level business intelligence and data analyst professions. They will assist in the process of inspecting, cleansing, testing, and transforming data. Graduates will help interpret and visualize the data using various software tools and techniques to provide support in all decision making phases. Graduates will gain a solid understanding of information technology and applications used to support decision making. The Data Analyst graduate will have the opportunity to interact and work with various functional managers in all parts of the company.

Program Learning Outcomes

1. Graduates will have knowledge and understanding of data analysis tools used in organizations
2. Graduates will have ability to prepare data and visualizations to help management in making decisions.
3. Graduates will have knowledge and understanding of relational database, data retrieval, data quality and data preparation methods.
4. Graduates will work various departments within an organization to validate, review and correct data discrepancies
5. Graduates will use computer software programs and applications for inputting, verifying, organizing, storing, retrieving, transforming (changing, updating, and deleting), and extracting information.
6. Graduates will develop data visualizations and ad-hoc reports through collaboration with leadership to identify and define metrics that drive performance.

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.

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

• Businesses are investing big-time in data analysis. Spending on big data and analytics will increase from \$10 billion in 2012 to more than \$32 billion in 2017, according to International Data Corporation. In context, that's about six times the growth rate of the overall information and communication technology market. Source: Minnesota Business Magazine.

ness Magazine.

- Data Scientist 80-20 rule- 80% of the time is data mining, and setting up the data to be analyzed, and 20% of the time is doing the analytical forecasting.
 - Creates an entry to the workforce; Middle Skill Big Data Workers (MSBDW)
 - Closet occupational field is Data Analyst, which is expected to grow 20-28 percent. As markets become more competitive, firms will need to use resources more efficiently. (U.S. Department of Labor, 2012)
- Job title examples: Data Analyst, Business Data Analyst, Information Specialist, Business Intelligence Analyst, Operations Data Analyst, Marketing Research Analyst, Information Clerk

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/).

Technical Education: 45 Credits

<input type="checkbox"/>	BDAT 1000	Business Concepts	2
<input type="checkbox"/>	BDAT 1005	Data Analysis Fundamentals.....	2
<input type="checkbox"/>	BDAT 1010	Integrated Business Software	3
<input type="checkbox"/>	BDAT 1025	Data Preparation for Analytics.....	3
<input type="checkbox"/>	BDAT 1030	Data Analysis	4
<input type="checkbox"/>	BDAT 2140	Business Intelligence	3
<input type="checkbox"/>	BDAT 2145	Special Topics in Analytics.....	3
<input type="checkbox"/>	ITEC 1003	Networking Fundamentals.....	2
<input type="checkbox"/>	ITEC 1016	Web Programming Technologies.....	4
<input type="checkbox"/>	ITEC 1025	Project Management	4
<input type="checkbox"/>	ITEC 2100	Programming Logic & Design.....	4
<input type="checkbox"/>	ITEC 2120	DB Design & SQL.....	4
<input type="checkbox"/>	ITEC 2317	Web Interactivity Tools.....	4
<input type="checkbox"/>	TLIT 1005	Technology Fundamentals	3

General Education/MnTC Requirements: 15 Credits

Fifteen (15) general education credits of Minnesota Transfer Curriculum (MnTC) are required from three different goal areas. Student is required to take one transferable course from MnTC Goal Area 4 and the following courses:

<input type="checkbox"/>	ENGL 2105	Business and Technical Writing	4
<input type="checkbox"/>	MATH 1550	Introduction to Statistics	4
<input type="checkbox"/>	PHIL 1200	Technology, Society, and Ethics	3
<input type="checkbox"/>	General Education/MnTC		4

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

Start Dates

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

(Also multiple start option each semester.)



(continued)

2019-2020

Business Data Analyst

Associate of Applied Science (AAS) Degree

Sample Program Sequence

Full Time

1 st YEAR	First Semester	Second Semester	Summer Semester
	BDAT 10052 ITEC 1003.....2 ITEC 1016.....4 ITEC 21004 TLIT 1005.....3 TOTAL15	BDAT 1000.....2 ITEC 2120.....4 ITEC 2317.....4 MATH 1550.....4 TOTAL14	MNTC.....4 TOTAL4
2 nd YEAR	Third Semester	Fourth Semester	
	BDAT 10304 BDAT 10253 ITEC 10254 PHIL 12003 TOTAL 14	BDAT 10103 BDAT 21403 BDAT 21453 ENGL 21054 TOTAL 13	