

# Business Data Analyst

Associate of Applied Science (AAS) Degree

Technical Credits ..... 45

MnTC General Education Credits.... 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 metric that drive performance.

## Industry and Career Outlook

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.

- 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)
- Closest 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

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
- MATH 1550 Introduction to Statistics (Goal 4)..... 4
- PHIL 1200 Technology, Ethics and Society (Goal 9)..... 3
- MnTC Elective ..... 4

## Program Sequence Fall Start

**Fall Semester ..... 15**

- 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

**Spring Semester..... 16**

- BDAT 1000 Business Concepts ..... 2
- BDAT 1010 Integrated Business Software ..... 3
- ITEC 2120 DB Design & SQL..... 4
- PHIL 1200 Technology, Society, and Ethics ..... 3
- MnTC Elective ..... 4

**Fall Semester ..... 15**

- BDAT 1025 Data Preparation for Analytics..... 3
- BDAT 1030 Data Analysis..... 4
- ITEC 2700 Artificial Intelligence ..... 4
- MATH 1550 Introduction to Statistics ..... 4

**Spring Semester..... 14**

- BDAT 2140 Business Intelligence ..... 3
- BDAT 2145 Special Topics in Analytics..... 3
- ENGL 2105 Business and Technical Writing ..... 4
- ITEC 1025 Project Management ..... 4

## 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, Society, and Ethics ..... 3

**Fall Semester ..... 15**

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<b>Spring Semester</b> .....	<b>13</b>
<input type="checkbox"/> BDAT 1000 Business Concepts .....	2
<input type="checkbox"/> BDAT 1010 Integrated Business Software .....	3
<input type="checkbox"/> ITEC 2120 DB Design & SQL.....	4
<input type="checkbox"/> ENGL 2105 Business and Technical Writing .....	4
<b>Fall Semester</b> .....	<b>14</b>
<input type="checkbox"/> BDAT 2140 Business Intelligence .....	3
<input type="checkbox"/> BDAT 2145 Special Topics in Analytics.....	3
<input type="checkbox"/> ITEC 1025 Project Management .....	4
<input type="checkbox"/> MnTC Elective .....	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](mailto:Gerard.Kne@anokatech.edu)..... 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](mailto: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*