

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.

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.

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	9
<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
Fall Semester	11
<input type="checkbox"/> BDAT 1025 Data Preparation for Analytics.....	3
<input type="checkbox"/> BDAT 1030 Data Analysis.....	4
<input type="checkbox"/> ITEC 2700 Artificial Intelligence	4
Spring Semester	10
<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

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	11
<input type="checkbox"/> BDAT 1025 Data Preparation for Analytics.....	3
<input type="checkbox"/> BDAT 1030 Data Analysis.....	4
<input type="checkbox"/> ITEC 2700 Artificial Intelligence	4
Spring Semester	9
<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
Fall Semester	10
<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



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(continued)

2023-2024

Business Data Analyst

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