

DATA ANALYTICS, POST-DEGREE PROFESSIONAL CERTIFICATE



This post-degree professional certificate program prepares students to use tools and techniques to understand and transform data, to apply statistics to find patterns and correlations, and to use modern reporting and analysis tools to find and communicate insight from data.

This program is available to be completed 100% online.

Program contact: [Learn more](#)

This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.

Learn more [here](#) and [here](#) about how certificate credits apply to the related degrees.

Students must have earned an Associate's degree or higher to enroll in this program.

Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Understand, build, and manipulate data structures and indexes.
2. Understand, build, and manipulate complex SQL queries.
3. Understand, build, and manipulate data transfer tools & data interfaces.
4. Understand and maintain data validation and governance.
5. Utilize effective communication skills to work within teams to successfully deliver projects.
6. Apply modern analytical tools (i.e. SAS, Python, R, and SQL) to prepare, query, and extract data to produce meaningful business insights.

Suggested Semester Sequence

| Summer Start | | Credit Hours |
|------------------------------|---|--------------|
| IT-1025 | Information Technology Concepts for Programmers | 3 |
| IT-1050 | Programming Logic | 3 |
| Select one of the following: | | 3 |
| MATH-1410 | Elementary Probability and Statistics I | |

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|------------------------------|--|-----------|
| MATH-1490 | Business Probability and Statistics I | |
| Credit Hours | | 9 |
| First Semester | | |
| IT-2070 | Introduction to Data Science and Analytics | 3 |
| IT-2351 | Enterprise Database Systems | 4 |
| Select one of the following: | | 3 |
| MATH-1420 | Elementary Probability and Statistics II | |
| MATH-1500 | Business Probability and Statistics II | |
| Credit Hours | | 10 |
| Second Semester | | |
| IT-2080 | Data Visualization | 4 |
| IT-2090 | Data Analytics Programming | 4 |
| Credit Hours | | 8 |
| Total Credit Hours | | 27 |

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.