

DATA ANALYTICS - TOOLS AND TECHNIQUES INTRODUCTION, CERTIFICATE OF COMPLETION

Non-Pell Eligible (Students may not use Pell funding for this certificate.
Grants may be available. See your advisor.)

Curriculum Code #C619

Effective May 2026

This certificate of completion introduces students to the tools and techniques used in data analytics. The process of data analysis is taught in the context of data from manufacturing (IoT), marketing, finance and other sources. Lorain County Community College has articulation agreements with colleges and universities including programs offered by the Lorain County Community College's University Partnership. This certificate of completion is a starting point for students interested in Data Analytics.

Preferred Sequence

Semester I		Hours
CISS 121	MICROCOMPUTER APPLICATIONS I	3
DATA 110	INTRODUCTION TO DATA ANALYTICS	4
MTHM 168	STATISTICS	3
Hours		10
Total Hours		10

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your advising team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling/>).

Program Learning Outcomes

1. Summarize data governance and data quality control concepts.
2. Identify the industry-standard tools used to mine large data sets for relationships and other insights.
3. Interpret visualization techniques to discover useful information within large data sets.
4. Identify the purpose of machine learning and related artificial intelligence algorithms in analyzing large data sets.