DATA ANALYTICS - TOOLS AND TECHNIQUES FUNDAMENTALS, SHORT-TERM TECHNICAL CERTIFICATE

Curriculum Code #6654

Effective May 2025

This short term certificate 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 short term certificate is a starting point for students interested in Data Analytics.

Preferred Sequence

Fall Semester		Hours
DATA 110		4
CISS 121	MICROCOMPUTER APPLICATIONS I [1]	3
DATA 130		3
MTHM 168	STATISTICS	3
ENGL 161	COLLEGE COMPOSITION I	3
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY [2]	1
	Hours	**17**
	Total Hours	**17**

1

Indicates that this course needs to be taken concurrently with another course.

2

A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 12 or more credit hours.

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/).

Credit for Prior Learning (PLA) options may be available for your program. For more information, please visit our website: www.lorainccc.edu/PLA (http://www.lorainccc.edu/PLA/)

Program Learning Outcomes

1. Describe the benefits and privacy issues with using Big Data.

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.