# MANUFACTURING ENGINEERING TECHNOLOGY - INDUSTRIAL INTERNET OF THINGS (IIOT), ONE-YEAR TECHNICAL CERTIFICATE

*Not Offered This Year*

Curriculum Code #6243

Effective May 2024

Division of Engineering, Business and Information Technologies (http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/)

The industrial mechanical technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level Industrial Internet of Things (IIoT) technician. The graduate will be able to install, repair, maintain, and test IIoT systems. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

**First Year**

| Fall Semester | | Hours |
| --- | --- | --- |
| CYBR 110 | FUNDAMENTALS OF INTERNET OF THINGS (IOT) | 4 |
| IIOT 120 | PROGRAMMING ESSENTIALS | 5 |
| AETC 121 | PROGRAMMABLE LOGIC CONTROLLERS | 3 |
| SDEV 101 | INTRODUCTION TO THE LCCC COMMUNITY [1] | 1 |
| Select one of the following: | | 3 |
| MTHM 158 | QUANTITATIVE REASONING | |
| MTHM 168 | STATISTICS | |
| Arts and Humanities Elective [5] | | 3 |
| | **Hours** | **19** |
| **Spring Semester** | | |
| CMNW 145 | NETWORK INSTALLATION/DIAGNOSTICS | 4 |
| IIOT 130 | IIOT SENSORS [2] | 4 |
| IIOT 140 | IIOT PRIVACY, SECURITY, AND CLOUD SERVICES | 4 |
| IIOT 220 | PROGRAMMING EMBEDDED SYSTEMS [3] | 4 |
| | **Hours** | **16** |
| | **Total Hours** | **35** |

[1]

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 13 or more credit hours.

[2]

Indicates that this course has a prerequisite or may be taken concurrently.

[3]

Indicates that this course requires a prerequisite.

[4]

The industrial internet of things core courses in this program may be earned through a competency-based education option. See your advisor for more information.

[5]

Select any Arts and Humanities Ohio Transfer 36 (http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/) course.

Program Contact(s):

**Kelly Zelesnik**
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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/).

1.  Communicate IIoT concepts and applicability, in technical and non-technical environments, using written, oral, and graphical communication.

2.  Apply knowledge, techniques, and IIoT-relevant programming skills to develop IIOT solutions.

3.  Conduct standard IIoT tests and measurements.