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

Not Offered This Year

Curriculum Code #6243

Effective May 2023

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):

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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.