

MANUFACTURING ENGINEERING TECHNOLOGY - INDUSTRIAL INTERNET OF THINGS (IIOT), ASSOCIATE OF APPLIED SCIENCE

Not Offered This Year

Curriculum Code #6245

Effective May 2023

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

The Industrial Internet of Things program is designed to provide students with the knowledge and skills necessary for the competent performance as IIoT technician. The graduate will be able to install, test, repair, and maintain 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
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY ¹	1
CMNW 145	NETWORK INSTALLATION/DIAGNOSTICS	4
CYBR 110	FUNDAMENTALS OF INTERNET OF THINGS (IOT)	4
IIOT 120	PROGRAMMING ESSENTIALS	5
Select one of the following:		3
MTHM 158	QUANTITATIVE REASONING	
MTHM 168	STATISTICS	
Hours		17

Spring Semester

AETC 121	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGL 161	COLLEGE COMPOSITION I	3
IIOT 130	IIOT SENSORS	4
IIOT 140	IIOT PRIVACY, SECURITY, AND CLOUD SERVICES	4
Hours		14

Second Year

Fall Semester		Hours
AETC 223	PROGRAMMABLE LOGIC CONTROLLERS II	3
CYBR 231	ETHICAL HACKING AND COUNTERMEASURES	4
IIOT 220	PROGRAMMING EMBEDDED SYSTEMS	4
PSSC 153	PHYSICAL SCIENCE	4
Hours		15

Spring Semester

ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS	3
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CMNW 230	DATA COMMUNICATIONS	5
IIOT 247	CAPSTONE PROJECTS AND SPECIAL TOPICS	4
Arts and Humanities Elective ⁶		3
Hours		15
Total Hours		61

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

This course offers an opportunity for experiential learning

5

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.

6

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 and implementation plans, based on best practices, regulations, and industry standards, to secure IIoT data.
3. Conduct standard IIoT tests, measurements, and experiments, and analyze and interpret the results.
4. Function effectively as a member of a technical team.