

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

## *Catalog Addendum (Added to Catalog after publication):*

Curriculum Code #6243

Effective September 2019

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 of 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	COLLEGE 101 <sup>1</sup>	1
Select one of the following:		3
MTHM 158	QUANTITATIVE REASONING	
MTHM 168	STATISTICS	
Humanities Elective		3
Hours		19

### Spring Semester

CMNW 145	NETWORK INSTALLATION/DIAGNOSTICS	4
IIOT 130	IIOT SENSORS <sup>2</sup>	4
IIOT 140	IIOT PRIVACY, SECURITY, AND CLOUD SERVICES	4
IIOT 220	PROGRAMMING EMBEDDED SYSTEMS <sup>3</sup>	4
Hours		16
Total Hours		35

<sup>1</sup> 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.

<sup>2</sup> Indicates that this course has a prerequisite or may be taken concurrently.

<sup>3</sup> Indicates that this course requires a prerequisite.

## Arts and Humanities Electives

Code	Title	Hours
ARTS 243G	ART HISTORY I	3
ARTS 244G	ART HISTORY II	3
ARTS 245G	WORLD ART	3
ARTS 246	HISTORY OF PHOTOGRAPHY	3
ARTS 254	HISTORY OF AMERICAN ARCHITECTURE	3
ENGL 251	AMERICAN LITERATURE I	3
ENGL 252	AMERICAN LITERATURE II	3
ENGL 253G	INTRODUCTION TO WORLD LITERATURE	3
ENGL 254G	INTRODUCTION TO HISPANIC LITERATURE	3
ENGL 255G	INTRODUCTION TO FICTION	3
ENGL 257G	INTRODUCTION TO POETRY	3
ENGL 259G	INTRODUCTION TO DRAMA	3
ENGL 261G	MASTERPIECES OF BRITISH LITERATURE I	3
ENGL 262G	MASTERPIECES OF BRITISH LITERATURE II	3
ENGL 266G	AFRICAN AMERICAN LITERATURE	3
ENGL 269G	INTRODUCTION TO SHAKESPEARE	3
HUMS 151G	INTRODUCTION TO HUMANITIES	3
HUMS 261G	INTRODUCTION TO GREAT BOOKS: ANCIENT WORLD TO THE RENAISSANCE	3
HUMS 262G	INTRODUCTION TO GREAT BOOKS: EARLY MODERN TO THE 20TH CENTURY	3
HUMS 271G	INTRODUCTION TO MYTHOLOGY	3
HUMS 274	FILM APPRECIATION	3
MUSC 262G	MUSIC AS A WORLD PHENOMENON	3
PHLY 165	BIOETHICS	3
PHLY 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
RELG 181G	INTRODUCTION TO WORLD RELIGIONS	3
RELG 261	RELIGION IN AMERICA	3
RELG 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
THTR 151G	INTRODUCTION TO THEATER	3

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.