

# MANUFACTURING ENGINEERING TECHNOLOGY - MANUFACTURING FOUNDATIONS, SHORT-TERM TECHNICAL CERTIFICATE

Curriculum Code #6018

Effective May 2024

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

The Manufacturing Foundations certificate is designed to provide students with the knowledge and skills necessary to create engineering drawings using CAD systems including: Dimensions and tolerances; multiple views and projections; assemblies and bill of materials; and 3-D models. students will learn the manufacturing process, production efficiency, safety procedures, the use of precision measuring devices, and Internet of Things applications to manufacturing. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

## Preferred Sequence

Fall Semester		Hours
TECN 131	MANUFACTURING PROCESSES I	3
CADD 111	INTRODUCTION TO COMPUTER AIDED DRAFTING <sup>2</sup>	2
CYBR 110	FUNDAMENTALS OF INTERNET OF THINGS (IOT)	4
MTHM 158	QUANTITATIVE REASONING	3
ENGL 161	COLLEGE COMPOSITION I	3
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY <sup>1</sup>	1
<b>Hours</b>		<b>16</b>
<b>Total Hours</b>		<b>16</b>

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

This course has a concurrent requirement that may be waived by approval from the program contact.

Program Contact(s):

**John Bis**

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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) (<http://www.lorainccc.edu/PLA/>)

## Program Learning Outcomes

1. Use CAD systems to create engineering drawings.
2. Demonstrate understanding of the manufacturing process.
3. Communicate effectively as a member of a manufacturing team.