

# MANUFACTURING ENGINEERING TECHNOLOGY - COMPUTER AIDED MACHINING/ MANUFACTURING PROCESSES, SHORT-TERM TECHNICAL CERTIFICATE

Curriculum Code #6012

Effective May 2025

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

Computer aided machining/manufacturing processes (CAM) short-term technical certificate is designed to provide the student with the knowledge and practical skills necessary for entry-level employment in the manufacturing processes/computer numerical control field. 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
CAMM 111	INTRODUCTION TO COMPUTER NUMERICAL CONTROL <sup>1</sup>	2
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY <sup>2</sup>	1
TECN 111	TECHNICAL PROBLEM SOLVING	3
TECN 115	INDUSTRIAL BLUEPRINT READING	2
TECN 131	MANUFACTURING PROCESSES I <sup>3</sup>	3
MTHM 155	TECHNICAL MATHEMATICS I	4
<b>Hours</b>		<b>15</b>
Spring Semester		
Select one of the following:		3
CADD 212	INTRODUCTION TO CREO PARAMETRIC (PRO/ENGINEER) <sup>1</sup>	
CADD 213	INTRODUCTION TO SOLIDWORKS <sup>1</sup>	
CADD 214	INTRODUCTION TO INVENTOR <sup>1</sup>	
CAMM 215 or CAMM 225	ADVANCED CNC MILLING MACHINES <sup>1</sup> or ADVANCED CNC LATHES	3
TECN 132	MANUFACTURING PROCESSES II <sup>1</sup>	3
<b>Hours</b>		<b>9</b>
<b>Total Hours</b>		<b>24</b>

2

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 12 or more credit hours.

3

Indicates that course requires a prerequisite or may be taken concurrently.

Program Contact(s):

**Phil Hashier**  
440-366-7018  
[phashier@lorainccc.edu](mailto:phashier@lorainccc.edu)

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/>).

**More program information can be found on our website.** (<https://www.lorainccc.edu/engineering/manufacturing-engineering/computer-aided-machining/manufacturing-process-short-term-certificate/>)

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. Apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
2. Explain the importance of CNC programming for ET/mechanical design applications.

1

Indicates that this course requires a prerequisite.