

MANUFACTURING ENGINEERING TECHNOLOGY - COMPUTER AIDED MACHINING OPERATOR, ONE-YEAR TECHNICAL CERTIFICATE

Curriculum Code #6112

Effective May 2026

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

Computer aided machining (CAM) operator is a one-year certificate program designed to provide students with knowledge, skills and competencies in programming, set-up and operating CNC machines, in a manufacturing setting. 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	2
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY ³	1
TECN 111	TECHNICAL PROBLEM SOLVING	3
TECN 115	INDUSTRIAL BLUEPRINT READING	2
TECN 131	MANUFACTURING PROCESSES I ¹	3
MTHM 155	TECHNICAL MATHEMATICS I	4
ENGL 161	COLLEGE COMPOSITION I	3
Hours		18
Spring Semester		
TECN 132	MANUFACTURING PROCESSES II ²	3
TECN 245	GEOMETRIC DIMENSIONING AND TOLERANCING ²	2
CAMM 215 or CAMM 225	ADVANCED CNC MILLING MACHINES ² or ADVANCED CNC LATHES	3
Select one of the following:		3
CADD 212	INTRODUCTION TO CREO PARAMETRIC (PRO/ENGINEER) ²	
CADD 213	INTRODUCTION TO SOLIDWORKS ²	
CADD 214	INTRODUCTION TO INVENTOR ²	
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS ²	3
Hours		14
Total Hours		32

¹ Indicates that this course has a prerequisite or may be taken concurrently.

² Indicates that this course has a prerequisite.

³ 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.

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/>).

More program information can be found on our website. (<https://www.lorainccc.edu/engineering/manufacturing-engineering/computer-aided-machining-operator-one-year-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>)

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 and demonstrate the ability to write and troubleshoot/debug CNC programs for appropriate ET/mechanical design applications.
3. Apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the discipline.