

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

Curriculum Code #6112

Effective May 2023

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
CADD 111	INTRODUCTION TO COMPUTER AIDED DRAFTING ¹	2
MTHM 155	TECHNICAL MATHEMATICS I	4
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
Arts and Humanities Elective ⁴		3
Hours		18
Spring Semester		
CAMM 111	INTRODUCTION TO COMPUTER NUMERICAL CONTROL ²	2
ENGL 161	COLLEGE COMPOSITION I	3
TECN 121	FLUID POWER ¹	3
TECN 132	MANUFACTURING PROCESSES II ²	3
TECN 245	GEOMETRIC DIMENSIONING AND TOLERANCING ²	2
Social Sciences Elective ⁵		3
Hours		16
Summer Semester		
CAMM 215 or CAMM 225	ADVANCED CNC MILLING MACHINES ² or ADVANCED CNC LATHES	3
Hours		3
Total Hours		37

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 13 or more credit hours.

4

Select any Arts and Humanities Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) course.

5

Select any Social Science 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/>).

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

Program Learning Outcomes

1. Demonstrate the ability to write CNC programs for appropriate ET/mechanical design applications.
2. Demonstrate the ability to problem solve and make recommendations for improvement, both orally and through written technical reports.