

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

Curriculum Code #6111

Effective May 2026

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

The CAD operator certificate program is designed to provide students with the knowledge and cognitive skills necessary for the competent performance as an entry-level CAD operator. Employment opportunities exist in a variety of manufacturing companies, such as automotive, steel, plastics and others. 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
Select any Arts and Humanities OT 36 course ⁴		3
Hours		18
Spring Semester		
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 161	COLLEGE COMPOSITION I	3
TECN 245	GEOMETRIC DIMENSIONING AND TOLERANCING ²	2
Select any Social and Behavioral Sciences OT 36 course ⁵		3
Technical Elective #1 ⁶		3
Technical Elective #2 ⁶		3
Hours		17
Total Hours		35

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.

⁴ Select any **Arts and Humanities** Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) course.

⁵ Select any **Social and Behavioral Sciences** Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) course.

⁶ Students will need to complete two of the Technical Electives from the list below.

Technical Electives

Code	Title	Hours
EMCH 111	STATICS FOR TECHNOLOGY ²	3
EMCH 112	ENGINEERING MATERIALS ²	3
TECN 132	MANUFACTURING PROCESSES II ²	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/>).

More program information can be found on our website. (<https://www.lorainccc.edu/engineering/manufacturing-engineering/computer-aided-design-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. Use appropriate engineering technology and mechanical design applications.
2. Problem solve and make recommendations for improvement, both orally and through written technical reports.