

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

Curriculum Code #6111

Effective May 2023

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
Arts and Humanities Elective 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	
CADD 235	DETAILING AND DIMENSIONING ²	3
CAMM 111 or ELCT 111	INTRODUCTION TO COMPUTER NUMERICAL CONTROL ² or ELECTRICAL CIRCUITS I	2-3
ENGL 161	COLLEGE COMPOSITION I	3
TECN 245	GEOMETRIC DIMENSIONING AND TOLERANCING ²	2
Social Sciences Elective ⁵		3
Hours		16-17
Total Hours		34-35

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 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-design-operator-one-year-certificate/>)

Program Learning Outcomes

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