

# MANUFACTURING ENGINEERING TECHNOLOGY - COMPUTER AIDED MACHINING MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6213

Effective May 2017

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

The computer aided machining major prepares the student with the knowledge, skills and hands-on experience needed to program, set-up and operate Computer Numerical Controlled (CNC) machines, specifically the machining and turning center. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
CADD 111	INTRODUCTION TO COMPUTER AIDED DRAFTING <sup>1</sup>	2
ENGL 161	COLLEGE COMPOSITION I	3
MTHM 121	TECHNICAL MATHEMATICS I <sup>2</sup>	4
SDEV 101	COLLEGE 101 <sup>3</sup>	1
TECN 111	TECHNICAL PROBLEM SOLVING	3
TECN 115	INDUSTRIAL BLUEPRINT READING	2
TECN 131	MANUFACTURING PROCESSES I <sup>1</sup>	3
Hours		18
<b>Spring Semester</b>		
CAMM 111	INTRO TO COMPUTER NUMERICAL CONTROL <sup>2</sup>	2
EMCH 112	ENGINEERING MATERIALS	3
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS <sup>2</sup>	3
MTHM 122	TECHNICAL MATHEMATICS II <sup>2</sup>	3
QLTY 122	BASIC QUALITY TOOLS AND APPLICATIONS	3
TECN 132	MANUFACTURING PROCESSES II <sup>2</sup>	3
Hours		17
<b>Second Year</b>		
<b>Fall Semester</b>		
CAMM 215	ADVANCED CNC MILLING MACHINES <sup>2</sup>	3
PHYC 150	GENERAL PHYSICS I <sup>2</sup>	4
TECN 121	FLUID POWER <sup>1,4</sup>	3
Arts and Humanities Elective		3
Hours		13

## Spring Semester

CAMM 225	ADVANCED CNC LATHES <sup>2</sup>	3
CAMM 235	CAD-CAM GRAPHICS <sup>2</sup>	3
ELCT 111	ELECTRICAL CIRCUITS I	3
TECN 245	GEOMETRIC DIMENSIONING AND TOLERANCING <sup>2</sup>	2
Social Science Elective		3
Hours		14
Total Hours		62

- <sup>1</sup> Indicates that this course has a prerequisite or may be taken concurrently.
- <sup>2</sup> Indicates that this course requires a prerequisite.
- <sup>3</sup> 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.
- <sup>4</sup> Indicates that a student may substitute work-based learning (CAMM 287, CAMM 288, and/or CAMM 289) for the equivalent number of credit hours for this course.

## Arts and Humanities Electives

ARTS 243G	ART HISTORY I	3
ARTS 244G	ART HISTORY II	3
ARTS 245G	WORLD ART	3
ARTS 246	HISTORY OF PHOTOGRAPHY	3
ARTS 254G	HISTORY OF AMERICAN ARCHITECTURE	3
ENGL 251	AMERICAN LITERATURE I	3
ENGL 252	AMERICAN LITERATURE II	3
ENGL 253G	INTRODUCTION TO WORLD LITERATURE	3
ENGL 254G	INTRODUCTION TO HISPANIC LITERATURE	3
ENGL 255	INTRODUCTION TO FICTION	3
ENGL 257G	INTRODUCTION TO POETRY	3
ENGL 259G	INTRODUCTION TO DRAMA	3
ENGL 261G	MASTERPIECES OF BRITISH LITERATURE I	3
ENGL 262G	MASTERPIECES OF BRITISH LITERATURE II	3
ENGL 266G	AFRICAN AMERICAN LITERATURE	3
ENGL 269G	INTRODUCTION TO SHAKESPEARE	3
HUMS 151G	INTRODUCTION TO HUMANITIES	3
HUMS 261G	INTRODUCTION TO GREAT BOOKS: ANCIENT WORLD TO THE RENAISSANCE	3
HUMS 262G	INTRODUCTION TO GREAT BOOKS: EARLY MODERN TO THE 20TH CENTURY	3
MUSC 262G	MUSIC AS A WORLD PHENOMENON	3
PHLY 165	BIOETHICS	3
PHLY 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
RELG 181G	INTRODUCTION TO WORLD RELIGIONS	3
RELG 261	RELIGION IN AMERICA	3
RELG 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
THTR 151G	INTRODUCTION TO THEATER	3

## Social Science Electives

HSTR 151G	CIVILIZATION I	3
HSTR 152G	CIVILIZATION II	3
HSTR 161	UNITED STATES I	3
HSTR 162	UNITED STATES II	3
HSTR 171G	THE WORLD SINCE 1900	3
HSTR 252G	WOMEN IN WORLD HISTORY	3
HSTR 267G	AFRICAN AMERICAN HERITAGE	3
PLSC 156	AMERICAN NATIONAL GOVERNMENT	3

Program Contact(s):

**Roger Diamond**

440-366-7014

rdiamond@lorainccc.edu

For information about admissions, enrollment, transfer, graduation and other general questions, please contact your Advising and Counseling Team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling>). (<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/associate-of-applied-science-in-manufacturing-engineering-technology-computer-aided-machining>)**