

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Manufacturing Engineering Technology  
Certificate of Achievement

Curriculum Code: 1354 (Effective Fall 2017 – Summer 2022)

This program prepares individuals to apply technical skills and computer software and hardware to the design and manufacturing of machined components relating to various industries. Students receive instruction in the use of engineering graphics, two-dimensional and three dimensional engineering design graphics, parametric modeling, computer numerical control programming, computer aided manufacturing programming, manufacturing processes, metrology, metallurgy, geometric dimensioning and tolerancing, tools for production, and engineering changes. Employment possibilities include entry-level positions in engineering firms, consulting firms, and manufacturing companies that make automotive, defense industry, special machinery, and medical components, to name a few.

### PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

### INFORMATION

Contact the Center for Manufacturing Excellence, West Campus Building, 5708 Cornerstone Drive, Lansing MI 48917, Room M103, telephone number (517) 483-1104 or by email at [manufacturing@lcc.edu](mailto:manufacturing@lcc.edu). View our website at <http://www.lcc.edu/cme/> for more information.

### REQUIREMENTS (See Note 1)

CODE	TITLE	TOTAL: 36 CREDITS CREDIT HOURS
METD 105	PC Applications for Technology	3
METD 110	Mechanical CAD Drafting I (See Note 1)	4
METD 130	Geometric Dimension/Tolerance (See Note 1)	4
METD 220	Basic Unigraphics/NX	4
METM 100	Manufacturing Processes	3
METM 108	Machine Tool Operations (See Note 1)	4
METM 190	Metallurgy and Heat Treatment	4
METM 195	Quality/Metrology/Inspection	2
METM 220	Basic Mastercam	4
METS 115	Intro to Mechanical Systems	4
<b>MINIMUM TOTAL</b>		<b>36</b>

**NOTES:**

1. Basic mechanical drafting skills are necessary to begin this curriculum and may be demonstrated by a score of 80% or better on the Drafting Placement Test or by passing METD 100 with a 2.0 minimum grade.
2. To receive a certificate of achievement from Lansing Community College, a student must maintain a grade point average of 2.0 or above in the courses required for the certificate.

**SUGGESTED COURSE SEQUENCE**

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

<b>I</b>	<b>II</b>	<b>III</b>
METD 105	METD 220	METM 190
METD 110	METM 100	METM 195
METD 130	METM 220	
METM 108	METS 115	