

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Industrial Manufacturing Engineering Technology
Associate in Applied Science Degree

Curriculum Code: 0110 (Effective Fall 2017 – Summer 2022)

Industrial manufacturing engineering technology is the study of a variety of technologies used in today's industry. Physical and mental skills are required including mechanical skills, problem-solving abilities, and dexterity. Employment opportunities are with industries that have a variety of work processes and/or trades. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

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 Trades Technology Program, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: www.lcc.edu/manufacturing/) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

REQUIREMENTS (See Notes 1 and 2)

TOTAL: 65 CREDITS

CODE	TITLE	CREDIT HOURS
COMM 130	Fund of Public Speaking	3
ELTE 102	Industrial/Construction Safety (See Note 3)	2
ELTE 108	Practical Electricity I (See Note 3)	2
ELTE 109	Practical Electricity II (See Note 3)	2
ENGL 121	Composition I	4
MATH 141	Calculus with Applications (See Note 4)	4
METD 105	PC Applications for Technology	3
METD 110	Mechanical CAD Drafting I (See Note 2)	4
METD 130	Geometric Dimension/Tolerance (See Note 2)	4
METD 220	Basic Unigraphics/NX	4
METM 100	Manufacturing Processes	3
METM 108	Machine Tool Operations (See Note 2)	4
METM 190	Metallurgy and Heat Treatment	4
METS 120	Industrial Pneumatics (See Note 3)	4

METS 130	Industrial Hydraulics (See Note 3)	4
METS 140	Rigging (See Note 3)	3
PHYS 221	Introductory Physics I (See Note 4)	4
POLS 260	Comparative Political Systems	3
WELD 103	Combination Welding	4

LIMITED CHOICE REQUIREMENTS

TOTAL: 0 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: [General Education Core Areas](#)

0 Credits

(Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area (See Note 5)	0
Global Perspectives and Diversity Core Area (See Note 5)	0
Mathematics Core Area (See Note 5)	0
Science Core Area (See Note 5)	0
Writing Core Area (See Notes 5 and 6)	0

MINIMUM TOTAL

65

NOTES:

1. It is highly recommended that students work with an advisor before beginning this curriculum which assumes high level math placement.
2. 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.
3. Students who have already completed DCTM 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for ELTE 102. Any of these courses may also be used to fulfill the prerequisite for ELTE 108, ELTE 109, METS 120, METS 130 and METS 140.
4. Students will need Math Level 7 for MATH 141 and Math Level 9 for PHYS 221. Math levels can be established by placement test or by completing MATH course work as indicated in each course prerequisite.
5. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
6. COMM 130 was formerly SPCH 130. ENGL 121 was formerly WRIT 121.

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.

I	II	III	IV
COMM 130	ELTE 108	MATH 141	ENGL 121
ELTE 102	ELTE 109	METD 220	METM 190
METD 105	METD 130	METS 140	METS 130
METD 110	METM 108	WELD 103	PHYS 221
METM 100	METS 120		
	POLS 260		