



Industrial Manufacturing Engineering Technology A.A.S.

Curriculum Code: 0110

Effective: Fall 2021 – Summer 2026

Description

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.

Contact Information

Contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

General Education - Applied Degrees, Recommended Courses

(For the full list of options, see [General Education](#))

- English Composition or Applied English
Program of Study Required Courses will meet this requirement
- English Composition (second course) or Communications or Applied Communications
Program of Study Required Courses will meet this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences – *Select one*
GEOG 200, World Regional Geography, 4 credits / 4 billing hours
HUMS 160, Mythology, 4 credits / 4 billing hours
POLS 260, Comparative Political Systems, 3 credits / 3 billing hours
- Mathematics or Applied Mathematics
Program of Study Required Courses will meet this requirement
- Natural Sciences Lab or Applied Science and Technology Lab
Program of Study Required Courses will meet this requirement

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 280	Intercultural Communication	3 / 3
ELTE 102	Industrial/Construction Safety	2 / 3
ELTE 108	Practical Electricity I	2 / 3

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
MATH 126	Precalculus	5 / 5
METD 100	Basic Mechanical Drafting	3 / 4
METD 105	PC Applications for Technology	3 / 4
METD 110	Mechanical CAD Drafting I	4 / 6
METD 220	Basic Unigraphics/NX	4 / 6
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6
METM 220	Basic Mastercam	4 / 6
METS 115	Intro to Mechanical Systems	4 / 6

Total Credit Hours

60-61 credits / 78-79 billing hours

Recommended Course Sequence

Semester I	Semester II
COMM 130 ELTE 102 ELTE 108 (first 8 weeks) ENGL 121 METD 100 METD 105	COMM 280 METD 110 METD 220 METM 108

Semester III	Semester IV
ENGL 122 MATH 126 METM 112 METM 190	Gen Ed - Humanities and Fine Arts or Social Sciences or Applied Social Sciences METM 220 METS 115