

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

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

**Industrial Manufacturing Engineering Technology
A.A.S. Pathway**

| Semester I | Course Title | Prerequisites | Credit/ Billing Hours |
|--|-----------------------------------|--|--------------------------|
| Communication Core Area - <i>Select 1</i> | | | |
| COMM 130 (formerly SPCH 130) | Fund of Public Speaking | Reading Level 5 and Writing Level 6 | 3 / 3 |
| Program of Study Requirements | | | |
| ELTE 102 | Industrial/Construction Safety | Reading Level 3 and Writing Level 2 | 2 / 3 |
| METD 105 | PC Applications for Technology | None | 3 / 4 |
| METD 110 | Mechanical CAD Drafting I | Minimum 2.0 in (METD 100 or Mechanical Drafting Placement Test 80%) and Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 6 |
| METM 100 | Manufacturing Processes | Reading Level 3 and Writing Level 4 | 3 / 4.5 |
| Credits | | | 15 / 20.5 |
| Semester II | Course Title | Prerequisites | Credit/Billing Hours |
| Global Perspectives and Diversity Core Area - <i>Select 1</i> | | | |
| POLS 260 | Comparative Political Systems | Reading Level 5 and Writing Level 6 | 3 / 3 |

| Program of Study Requirements | | | |
|--------------------------------------|-------------------------------|---|----------------|
| ELTE 108 | Practical Electricity I | Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3 | 2 / 3 |
| ELTE 109 | Practical Electricity II | Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3 | 2 / 3 |
| METD 130 | Geometric Dimension/Tolerance | Minimum 2.0 in (METD 100 or Mechanical Drafting Placement Test 80%) and Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 6 |
| METM 108 | Machine Tool Operations | Minimum 2.0 in (METD 100 or METD 150 or Drafting Placement Test 80%) and Reading Level 3 and Writing Level 4 and Math Level 4 | 4 / 6 |
| METS 120 | Industrial Pneumatics | Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 4 | 4 / 6 |
| Credits | | | 19 / 27 |

| Semester III | Course Title | Prerequisites | Credit/Billing Hours |
|--|----------------------------|--|----------------------|
| Math Core Area - <i>Select 1</i> | | | |
| MATH 141 | Calculus with Applications | (Minimum 2.5 in MATH 120 or MATH 130 or Minimum 2.0 in MATH 121 within 2 years or Math Level 7 within 2 years) and Reading Level 5 and Writing Level 6 | 4 / 4 |
| Program of Study Requirements | | | |
| METD 220 | Basic Unigraphics/NX | Minimum 2.0 in METD 110 and Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 6 |
| METS 140 | Rigging | Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 4 | 3 / 4.5 |
| WELD 103 | Combination Welding | Reading Level 3 and Writing Level 2 | 4 / 6 |
| Credits | | | 15 / 20.5 |
| Semester IV | Course Title | Prerequisites | Credit/Billing Hours |
| Writing Core Area - <i>Select 1</i> | | | |
| ENGL 121 (formerly WRIT 121) | Composition I | Reading Level 5 and Writing Level 6 | 4 / 4 |
| Science Core Area - <i>Select 1</i> | | | |
| PHYS 221 | Introductory Physics I | Reading Level 5 and Writing Level 6 and (Math Level 9 or minimum 2.0 in MATH 122 or MATH 141) | 4 / 6 |

| Program of Study Requirements | | | |
|--------------------------------------|-------------------------------|--|----------------|
| METM 190 | Metallurgy and Heat Treatment | Reading Level 5 and Writing Level 6 and Math Level 4 | 4 / 6 |
| METS 130 | Industrial Hydraulics | Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4 | 4 / 6 |
| Credits | | | 16 / 22 |
| Total Credits | | | 65 / 90 |