

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code:
1780 (Effective Fall
2017 – Summer
2022)

**Mechatronics - Multi-Skilled Maintenance
Technology A.A.S. Pathway**

Semester I	Course Title	Prerequisites	Credit/ Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 124 (formerly WRIT 124)	Technical Writing	(Reading Level 5 and Writing Level 6) or AASD 105 concurrently	3 / 3
Math Core Area - <i>Select 1</i>			
MATH 115	Technical Math II	(Minimum 2.0 in MATH 114 within 2 years or Math Level 5 within 2 years) and Reading Level 5	4 / 4
Program of Study Requirements			
ELTA 120	AC Fundamentals – Electrician	Minimum 2.0 in ((ELTE 110 or ELTE 108 or ELTE 118 or concurrently) and (minimum 2.5 in (ELTA 106 or MATH 114 or Math Level 5)) and Reading Level 3 and Writing Level 2	2 / 3
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
METD 150	Industrial Blueprint Reading	None	3 / 3
METS 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
Credits			16 / 19

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
ELTE 131	Machine Controls I	Minimum 2.0 in (ELTE 110 or ELTE 108 or ELTE 118) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 5
METS 110	Mechanical Power Transmissions	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
METS 125	Intro to Hydraulics/ 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 3	4 / 6
METS 145	Automated Systems	Minimum 2.0 in (METS 102 or ELTE 102 or DCTM 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4.5
METS 160	Introduction to Robotics	Minimum 2.0 in (METS 102 or ELTE 102 or DCTM 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4.5
Credits			18 / 26
Semester III	Course Title	Prerequisites	Credit/Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 110 (formerly SPCH 110)	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3

Science Core Area - <i>Select 1</i>			
PHYS 200	Intro Physics With Application	Reading Level 5 and Writing Level 6 and Math Level 5	4 / 5
Program of Study Requirements			
ELTE 260	Programmable Controllers I	Minimum 2.0 in ELTE 131 and Reading Level 3 and Writing Level 2 and Math Level 3	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
Credits			15 / 20
Semester IV	Course Title	Prerequisites	Credit/ Billing Hours
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
Program of Study Requirements			
METS 250	Gen. Prevent/Predictive Maint	Minimum 2.0 in (METS 102 or ELTE 102 or DCTM 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 6
WELD 108	Welding for Non-Majors	Department Approval	4 / 6
Credits			11 / 15
Total Credits			60 / 80