

Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 0110 (Effective Fall 2017 – Summer 2022)	<b>Industrial Manufacturing Engineering Technology A.A.S. Pathway</b>		
Semester I	Course Title	Prerequisites	Credit/ Billing Hours
<b>Communication Core Area - <i>Select 1</i></b>			
COMM 130 (formerly SPCH 130)	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3
<b>Program of Study Requirements</b>			
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
<b>Credits</b>			<b>15 / 20.5</b>

Semester II	Course Title	Prerequisites	Credit/ Billing Hours
<b>Global Perspectives and Diversity Core Area - <i>Select 1</i></b>			
POLS 260	Comparative Political Systems	Reading Level 5 and Writing Level 6	3 / 3
<b>Program of Study Requirements</b>			
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
<b>Credits</b>			<b>19 / 27</b>

Semester III	Course Title	Prerequisites	Credit/ Billing Hours
<b>Math Core Area - <i>Select 1</i></b>			
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
<b>Program of Study Requirements</b>			
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
<b>Credits</b>			<b>15 / 20.5</b>

Semester IV	Course Title	Prerequisites	Credit/ Billing Hours
<b>Writing Core Area - <i>Select 1</i></b>			
ENGL 121 (formerly WRIT 121)	Composition I	Reading Level 5 and Writing Level 6	4 / 4
<b>Science Core Area - <i>Select 1</i></b>			
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
<b>Program of Study Requirements</b>			
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
<b>Credits</b>			<b>16 / 22</b>
<b>Total Credits</b>			<b>65 / 90</b>