

LANSING COMMUNITY COLLEGE			
Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 1470 (Effective Fall 2017 – Summer 2022)	Machine Tool Technology C.A. Pathway		
Semester I	Course Title	Prerequisites	Credit/ Billing Hours
<b>Program of Study Requirements</b>			
METS 102 <i>Students who have already completed ELTE 102 or DCTM 102 or HVAC 102 or WELD 102 with a grade of 2.0 or higher may substitute one of those courses for METS 102.</i>	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
<b>Trade Electives - <i>Select 1</i></b> <i>Courses may not be duplicated</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
METD 105	PC Applications for Technology	None	3 / 4
METD 111	Mechanical CAD Drafting II	Minimum 2.0 in METD 110 and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
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
METD 150	Industrial Blueprint Reading	None	3 / 3
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

METM 150	Advanced CNC Machining	Minimum 2.0 in (METM 110 or METM 112) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
METM 220	Basic Mastercam	Minimum 2.0 in (METM 108 or METM 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>5-6 / 6-9</b>
<b>Semester II</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/Billing Hours</b>
<b>Program of Study Requirements</b>			
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 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
<b>Credits</b>			<b>8 / 12</b>

Semester III	Course Title	Prerequisites	Credit/ Billing Hours
<b>Program of Study Requirements</b>			
METM 112	Introduction to CNC Machining	Minimum 2.0 in METM 108 and Reading Level 3 and Writing Level 4 and Math Level 4	4 / 6
METM 190	Metallurgy and Heat Treatment	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
<b>Credits</b>			<b>8 / 12</b>
Semester IV	Course Title	Prerequisites	Credit/Billing Hours
<b>Trade Electives - <i>Select 3 courses</i></b> <i>Courses may not be duplicated</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
METD 105	PC Applications for Technology	None	3 / 4
METD 111	Mechanical CAD Drafting II	Minimum 2.0 in METD 110 and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
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
METD 150	Industrial Blueprint Reading	None	3 / 3
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
METM 150	Advanced CNC Machining	Minimum 2.0 in (METM 110 or METM 112) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6

METM 220	Basic Mastercam	Minimum 2.0 in (METM 108 or METM 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>10-12 / 12.5-18</b>
<b>Total Credits</b>			<b>31-34 / 42.5-51</b>