



## Eaton RESA Early College Program of Study Plan

Manufacturing Engineering Technology A.A.S. Pathway (Curriculum Code: 1359)

*Schedules are subject to change*

11 <sup>th</sup> Year					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
<i>ERESA Class Fall and Spring (Year Long)</i>	METS 102 – Industrial/Construction Safety	2/3	NONE	Read=3, Write=2	F, Sp, Su
	METM 108 – Machine Tool Operations <i>NEED minimum GPA of 2.0 in class</i>	4/6	NONE	Read=3, Write=4, Math=4	F, Sp
	METD 110 – Mechanical CAD Drafting I <i>NEED minimum GPA of 2.0 in class</i>	4/6	METD 100 (2.0 min.)	Read=4, Write=4, Math=4	F, Sp, Su
	METD 100 – Basic Mechanical Drafting <i>NEED minimum GPA of 2.0 in class</i>	3/4	NONE	Read=3, Write=2, Math=3	F, Sp

Summer					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
<i>Summer</i>	*COMM 110 – Oral Comm in the Workplace	3/3	NONE	Read=5, Write=6	F, Sp, Su

12 <sup>th</sup> Year					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
<i>Fall</i>	METD 130 – Geometric Dimension/Tolerance <i>NEED minimum GPA of 2.0 in class</i>	4/6	METD 100 (2.0 min)	Read=5, Write=6, Math=4	F
	METM 112 – Introduction to CNC Machining <i>NEED minimum GPA of 2.0 in class</i>	4/6	METM 108 (2.0 min.)	Read=3, Write=4, Math=4	F, Sp
<i>Spring</i>	METM 220 – Basic Mastercam <i>NEED minimum GPA of 2.0 in class</i>	4/6	METM 108 (2.0 min.)	Read=4, Write=4, Math=4	
	METM 195 – Quality/Metrology/Inspection	2/3	METM 130 and METM 108 (2.0 min.)	Read=4, Write=4, Math=4	F, Sp

Summer					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
<i>Summer</i>	*MGMT 234 – Diversity in the Workplace	3/3	NONE	Read=5, Write=6	F, Sp, Su
	*ENGL 124 – Technical Writing	3/3	NONE	Read=5, Write=6	F, Sp, Su

13 <sup>th</sup> Year					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
<i>Fall</i>	METD 220 – Basic Unigraphics/NX	4/6	METD 110 (2.0 min.)	Read=4, Write=4, Math=4	F
	*METM 190 – Metallurgy and Heat Treatment	4/6	NONE	Read=4, Write=4, Math=4	F, Sp
	*MATH 115 – Technical Math II	4/4	NONE	Read=5, Math=5	F, Sp
<i>Spring</i>	METM 150 – Advanced CNC Machining	4/6	METM 112 (2.0 min.)	Read=4, Write=4, Math=4	F
	METS 115 – Intro to Mechanical Systems	4/6	NONE	Read=4, Write=4, Math=4	F, Sp
	METM 221 – Advanced Mastercam	4/6	METM 220 (2.0 min.)	Read=3, Write=4, Math=4	F, Sp

\*Electives – can be substituted for another class

60 Credits/83 Billing



**Eaton RESA Early College Program of Study Plan**  
Computer Automated Design A.A.S. Pathway (Curriculum Code: 1801)

*Schedules are subject to change*

11th Year					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
<b>ERESA Class</b> Fall and Spring (Year Long)	METS 102 – Industrial/Construction Safety	2/3	NONE	Read=3, Write=2	F, Sp, Su
	METM 108 – Machine Tool Operations NEED minimum GPA of 2.0 in class	4/6	NONE	Read=3, Write=4, Math=4	F, Sp
	METD 110 – Mechanical CAD Drafting I NEED minimum GPA of 2.0 in class	4/6	METD 100 (2.0 min.)	Read=4, Write=4, Math=4	F, Sp, Su
	METD 100 – Basic Mechanical Drafting NEED minimum GPA of 2.0 in class	3/4	NONE	Read=3, Write=2, Math=3	F, Sp

Summer					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
Summer	*COMM 110 – Oral Comm in the Workplace	3/3	NONE	Read=5, Write=6	F, Sp, Su

12th Year					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
Fall	METD 130 – Geometric Dimension/Tolerance NEED minimum GPA of 2.0 in class	4/6	METD 100 (2.0 min.)	Read=4, Write=4, Math=4	F
	METD 150 – Industrial Blueprint Reading	3/3	NONE	NONE	F, Sp
Spring	METM 220 – Basic Mastercam	4/6	METM 108 (2.0 min.)	Read=4, Write=4, Math=4	F, Sp
	METD 111 – Mechanical CAD Drafting II	4/6	METD 110 (2.0 min.)	Read=4, Write=4, Math=4	Sp
	METM 195 – Quality/Metrology/Inspection	2/3	METD 130 and METM 108 (2.0 min.)	Read=4, Write=4, Math=4	F, Sp

Summer					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
Summer	*MGMT 234 – Diversity in the Workplace	3/3	NONE	Read=5, Write=6	F, Sp, Su
	*ENGL 124 – Technical Writing	3/3	NONE	Read=5, Write=6	F, Sp, Su

13th Year					
Semester	Course Name	Credit/ Billing	Course Prerequisites	Required Accuplacer Levels	Course Offerings
Fall	METD 220 – Basic Unigraphics/NX NEED minimum GPA of 2.0 in class	4/6	METD 110 (2.0 min.)	Read=4, Write=4, Math=4	F
	METD 250 – Detailing Assembly Drawings NEED minimum GPA of 2.0 in class	4/6	METD 130 (2.0 min.)	Read=4, Write=4, Math=4	F, Sp
	METM 190 – Metallurgy and Heat Treatment	4/6	NONE	Read=5, Write=6, Math=4	F, Sp
	*MATH 115 – Technical Math II	4/4	NONE	Read=5, Math=5	F, Sp
Spring	METM 100 – Manufacturing Process	3/4.5	NONE	Read=3, Write=4	F, Sp, Su
	METD 221 – Advanced Unigraphics/NX	4/6	METD 220 (2.0 min.)	Read=4, Write=4, Math=4	Sp
	METD 265 – Basic CAD FEA Simulation	4/6	METD 220 or METD 250 (2.0 min.)	Read=4, Write=4, Math=4	
	METS 115 – Intro to Mechanical Systems	4/6	NONE	Read=4, Write=4, Math=4	F, Sp
	METM 240 – Basic NX Machining	4/5	METD 220 and METM 108 (2.0 min.)	Read=4, Write=4, Math=4	Sp

\*Elective – can be substituted for another class

74 Credits/101.5 Billing