



**TRADES PROGRAM:
CAD MECHANICAL ENGINEERING TECHNOLOGY
ASSOCIATE DEGREE - 1 + 0.5**

Students will begin the program Junior year and finish in October after graduation.

PTC Orientation with families will occur before students begin the program.

Tuition for WA students while in high school for PTC courses will be \$100/credit (\$50/credit for dual enrollment courses).

Recom. Timeframe	Freshman/Sophomore/Junior Year		WA Credits	PTC Credits
Full year @ WA	GEM 166: College Algebra	0317 HEC Algebra 2 (WA ECIHSA-RMU - MATH 1010 College Mathematics) OR 0320 AP Precalculus (WA ECIHSA-RMU - MATH 1020 Precalculus)	1	4
Full year @ WA	CAD 104: Engineering Graphics CAD 114: AutoCAD	0706 Drawing & Design for Engineering & Architecture (WA ECIHSA-PTC - CAD 104: Auto CAD & CAD 114: Engineering Graphics)	1	6
Full year @ WA	GEE 101 - English Composition 1 GEE 151 - English Composition 2	0122 AP Eng Lang & Comp (WA ECIHSA-RMU - CSEN 1010: Reading & Writing Strategies & CSEN 1020: Argument & Research)	1	8
Full year @ WA	GEE 212 - Effective Speech	0151 Oral Communications (WA ECIHSA-RMU - CSCM 1030: Communications, Public Speaking and Persuasion)	1	4
Full year @ WA	GEM 206 - Personal Finance	0735 Personal Finance (WA ECIHSA-PTC - GEM 206: Personal Finance)	1	4
TOTAL in Freshman/Sophomore/Junior Year			5	26
Recom. Timeframe	Senior Year (All classes @ PTC)		WA Credits	PTC Credits
Oct - Jan	GSD 005 - Steps to Career Success 1	WA ELA Credit	1	1
Oct - Jan	MET 101: Introduction to Manufacturing	WA Elective Credit	1	3
Oct - Jan	CAD 154: Industrial Pipe Design	WA Elective Credit	1	4
Oct - Jan	GES 151 - Critical Thinking	WA Social Studies Credit	1	4
Oct - Jan	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Oct -Jan Quarter			4	12
Jan - Apr	MET 111: Intro to Parametric Modeling	WA Elective Credit	1	3
Jan - Apr	MET 121: Introduction to Mechanical Design	WA Elective Credit	1	3
Jan - Apr	MET 131: Energy Technology	WA Science Credit	1	3
Jan - Apr	GSD 180 - Career Development	WA English Credit	1	2
Jan - Apr	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Jan - Apr Quarter			4	11
Apr - July	MET 141: Mechanical Application Software 1	WA Elective Credit	1	4
Apr - July	MET 201: Mechanical & Fabrication Design	WA Elective Credit	1	4
Apr - July	CAD 219: Structural Drafting	WA Elective Credit	1	3
Apr - July	CAD 261: Statics & Strength of Materials	WA Science Credit	1	3
Apr - July	GES 252: Leadership Principles	WA Elective Credit	1	4
Apr - July	CAD 010: Skills Lab	No credit - Study hall format for drafting	0	0
TOTAL in Apr - July Quarter			5	18
TOTAL in High School			18	67
Recom. Timeframe	First year after graduation		Credits	
July - Sept	MET 221: Mechanical Application Software 2		3	
July - Sept	MET 231: Geometric Tolerance		3	
July - Sept	MET 301: Mechanical Capstone		5	
July - Sept	CAD 010: Skills Lab		0	
Credits			11	
Oct - Dec	GSI 192/193 - Internship		12	
Credits			12	
Total for first year after graduation			23	

*Courses/curriculum are subject to change at the college's discretion.

Updated January 2024