



Precision Manufacturing and Maintenance Degree (PMA3)- 60 Credit Hours Customized Training Specialization

Program Description:

The Precision Manufacturing and Maintenance associate degree program is designed to develop versatile skills required for a variety of manufacturing positions, with emphasis on diagnosing and maintaining complex integrated systems. The planned sequence of courses prepares students to install, program, operate, maintain, service, and diagnose electromechanical equipment and produce precision parts used in manufacturing applications. Graduates may find entry-level employment as industrial/mechanical maintenance technicians, automation technicians, flexible manufacturing technicians, robotics technicians, or as supervisors in a variety of settings that require automated manufacturing skills. Initial salaries are estimated to begin at \$48,180. (BLS.gov May 2022).

Contact:

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Website:

<https://www.westgatech.edu/program-explorer/manufacturing-and-production/precision-manufacturing-and-maintenance/>

Pre-Degree Requirements					
Program Specific					
<ul style="list-style-type: none"> • Min GPA 2.0 • Carrollton, Coweta and LaGrange Campus • Prerequisites – Minimum Grade of C required 					
Set the Track, Start the Track, Stay on Track					
<i>Meet with an Advising Coach to Stay on Track. S = Semester; CR = Credit Hours; FA = Fall; SP = Spring; SU = Summer; ALL=any semester</i>					
✓	Grade	Semester 1	S	CR	Notes & Milestones
		IDSY 1160 Mechanical Laws and Principles	ALL	4	
		IDSY 1170 Industrial Mechanics	ALL	4	
		IDSY 1101 DC Circuit Analysis	ALL	3	
				11	Program Semester Hours
✓	Grade	Semester 2	S	CR	Notes & Milestones
		IDSY 1105 AC Circuit Analysis	ALL	3	Prerequisites IDSY 1101
		IDSY 1240 Maintenance for Reliability	ALL	4	Prerequisites IDSY 1170
		ENGL 1101 Composition and Rhetoric	ALL	3	
		AUMF 1130 Applied Hydraulics, Pneumatics, and Mechanics	ALL	2	
				12	Program Semester Hours

✓	Grade	Semester 3	S	CR	Notes & Milestones
		IDSY 1110 Industrial Motor Controls I	ALL	4	Prerequisites IDSY 1101 IDSY 1105
		WELD 1330 Metal Welding and Cutting Techniques	SU	2	
		MATH 1111 College Algebra	ALL	3	List of AREA II courses
				9	Program Semester Hours
✓	Grade	Semester 4	S	CR	Notes and Milestones
		IDSY 1120 Basic Industrial PLC	ALL	4	Prerequisites IDSY 1101, IDSY 1105 and IDSY 1110
		AUMF 1110 Flexible Manufacturing System I	ALL	5	Prerequisites IDSY 1101 and 1105
		AUMF 1580 Automated Manufacturing Skills	ALL	3	
				12	Program Semester Hours
✓	Grade	Semester 5	S	CR	Notes and Milestones
		IDSY 1220 Intermediate PLCs	ALL	4	Prerequisites IDSY 1120
		AUMF 1560 Manufacturing Production Requirements	ALL	1	
		IDSY 1130 Industrial Wiring	ALL	4	
		IDSY 1210 Industrial Motor Controls II	ALL	4	
				13	Program Semester Hours
✓	Grade	Semester 6	S	CR	Notes and Milestones
		AREA IV	ALL	3	List of AREA IV courses
		Additional 3 Credits from AREA I, II, III or IV	ALL	3	List of AREA I, II, III, or IV courses
		AREA II	ALL	3	List of AREA II courses
				9	Program Semester Hours
Always check online https://www.westgatech.edu/ and meet with your Advising or Faculty Coach to ensure you are viewing the latest and most accurate information.					

Employment Opportunities: <https://www.westgatech.edu/student-life/career-services/>

Financial Aid by Program: <https://www.westgatech.edu/wp-content/uploads/2019/02/WGTC-Available-Aid-By-Program-11-17-2023.pdf>

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