

School of Trade and Technology

Precision Manufacturing and Maintenance Degree PMA3—63 Credit Hours

Program Chair: steve.cromer@westgatech.edu

Courses may rotate among the following locations: LaGrange

Complete	General Education Course Number (credits)	Course Name	Prerequisite	Notes
<input type="checkbox"/>	<p>**Learning Support Courses (refer to Admissions evaluation). Examples include: ENGL 0998, ENGL 0996/1101, MATH 0090 and MATH 0999/1111 Not available online; courses must be completed on campus if student is provisional and not regular status.</p> <p><i>These courses are not calculated into students' institutional GPA. Learning support courses are individually assigned based on admissions testing results and program requirements. 0096 courses must be completed with the Adult Education department before starting college program—contact Admissions for questions regarding evaluations.</i></p>			
<input type="checkbox"/>	Area I: **ENGL 1101 (3)	Composition and Rhetoric	Degree program admission level writing and reading competency	
<input type="checkbox"/>	Area II: (3)	Choose One	See Catalog	
<input type="checkbox"/>	Area III: **MATH 1111 (3) –OR– MATH 1101 (3)	College Algebra –OR– Mathematical Modeling	Degree program admission level algebra competency	
<input type="checkbox"/>	Area IV (3) Choose One: ARTS 1101 MUSC 1101 THEA 1101 HUMN 1101 ENGL 2110 ENGL 2130 ENGL 2310	Choose One: Art Appreciation Music Appreciation Theater Appreciation Introduction to Humanities World Literature American Literature English Literature	Degree program admission level writing and reading competency ENGL 1101 ENGL 1101 and ENGL 1102 ENGL 1101 and ENGL 1102 ENGL 1101 and ENGL 1102	
<input type="checkbox"/>	Additional 3 hours from Area I, II, III or IV	Choose One	See Catalog	

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Complete	Occupational Course Number (credits)	Course Name	Prerequisite	Notes
<input type="checkbox"/>	AUMF 1110 (5)	Flexible Manufacturing Systems I	IDFC 1000 and IDFC 1005 -OR- IDSY 1101 and IDSY 1105	
<input type="checkbox"/>	AUMF 1560 (1)	Manufacturing Production Requirements	None	
<input type="checkbox"/>	**IDSY 1101 (3)	DC Circuit Analysis	None	
<input type="checkbox"/>	**IDSY 1105 (3)	AC Circuit Analysis	None	
<input type="checkbox"/>	IDSY 1170 (4)	Industrial Mechanics	None	
<input type="checkbox"/>	IDSY 1240 (4)	Maintenance for Reliability	None	
Done	Occupational Electives Course Number (credits)	Course Name	Prerequisite	Notes
	<i>Choose 6 credit hours from the list below:</i>			
<input type="checkbox"/>	AUMF 1130 (2) -OR- ELCR 2150 (2)	Applied Hydraulics, Pneumatics, and Mechanics Fluid Power	Regular status (all learning support complete or no learning support required) Regular Status	
<input type="checkbox"/>	AUMF 1210 (5)	Flexible Manufacturing Systems II	AUMF 1110	
<input type="checkbox"/>	ELCR 1280 (3)	Introduction to Embedded Systems	None	
<input type="checkbox"/>	ELCR 2110 (3)	Process Control	ELCR 1020	

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Done	Occupational Electives Continued Course Number (credits)	Course Name	Prerequisite	Notes
<input type="checkbox"/>	IDSY 1110 (4)	Industrial Motor Controls I	None	
<input type="checkbox"/>	IDSY 1120 (4)	Basic Industrial PLCs	None	
<input type="checkbox"/>	IDSY 1130 (4)	Industrial Wiring	None	
<input type="checkbox"/>	IDSY 1210 (4)	Industrial Motor Controls II	None	
<input type="checkbox"/>	IDSY 1220 (4)	Intermediate Industrial PLCs	None	
<input type="checkbox"/>	IDSY 1230 (4)	Industrial Instrumentation	None	
<input type="checkbox"/>	IDSY 1260 (4)	Machine Tool for Industrial Repairs	None	Required for Apprenticeship Specialization
<input type="checkbox"/>	MCHT 1011 (4)	Introduction to Machine Tool	None	
<input type="checkbox"/>	MEGT 1010 (3)	Manufacturing Processes	ENGT 1000 and Regular status (all learning support complete or no learning support required)	Required for Apprenticeship Specialization

And Choose ONE of the following Specializations:

Industrial Mechanical Specialization (27 credits)

Complete	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	AMCA 2110 (4)	CNC Fundamentals	MCHT 1011 and MCHT 1012	

****First term suggestion:** All assigned learning support and/or—ENGL 1101, MATH 1111, IDSY 1101, IDSY 1105

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Complete	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	AUMF 1210 (5)	Flexible Manufacturing Systems II	AUMF 1110	
<input type="checkbox"/>	IDSY 1160 (4)	Mechanical Laws and Principles	None	
<input type="checkbox"/>	MCHT 1020 (4)	Heat Treatment and Surface Grinding	Regular status (all learning support complete or no learning support required)	
<input type="checkbox"/>	MEGT 2100 (3)	Manufacturing Quality Control	ENGT 1000 or MATH 1013	
<input type="checkbox"/>	Choose One Occupational Elective (3)	AMCA or AUMF or ELCR or IDSY or MCHT or MEGT	See Catalog	
Customized Training Specialization (23 credits)				
Complete	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	AUMF 1130 (2)	Applied Hydraulics, Pneumatics, and Mechanics	Regular status (all learning support complete or no learning support required)	
<input type="checkbox"/>	AUMF 1580 (3)	Automated Manufacturing Skills	None	
<input type="checkbox"/>	IDSY 1110 (4)	Industrial Motor Controls I	None	
<input type="checkbox"/>	IDSY 1120 (4)	Basic Industrial PLCs	None	
<input type="checkbox"/>	IDSY 1160 (4)	Mechanical Laws and Principles	None	

****First term suggestion:** All assigned learning support and/or—ENGL 1101, MATH 1111, IDSY 1101, IDSY 1105

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Complete	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	IDSY 1220 (4)	Intermediate Industrial PLCs	None	
<input type="checkbox"/>	WELD 1330 (2)	Metal Welding and Cutting Techniques	None	
Mechatronics Specialization (22 credits)				
Complete	Occupational Course Number (credits)	Course Name	Pre-requisite	Notes
<input type="checkbox"/>	AUMF 1120 (5) -OR- IDSY 1120 (4)	Programmable Controllers Basic Industrial PLCs	IDFC 1005 None	
<input type="checkbox"/>	AUMF 1150 (3)	Introduction to Robotics	AUMF 1120	
<input type="checkbox"/>	AUMF 1580 (3)	Automated Manufacturing Skills	None	
<input type="checkbox"/>	IDSY 1005 (4)	Introduction to Mechatronics	None	
<input type="checkbox"/>	IDSY 1230 (4)	Industrial Instrumentation	None	
<input type="checkbox"/>	IDSY 2830 (4)	Networking Industrial Equipment	None	

This program is eligible for Federal Aid including Pell Grant and federal student loans and may be eligible for Institutional and State Financial Aid. Contact the Financial Aid office for eligibility requirements and application materials.

As set forth in its student catalog, West Georgia Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, or citizenship status (except in those special circumstances permitted or mandated by law).