

Precision Manufacturing and Maintenance Degree

Associate of Applied Science Degree

PMA3

Curriculum

General Education Core	15
Area I: Language Arts/Communication	3
ENGL 1101 Composition and Rhetoric (3)	
Area II: Social/Behavioral Sciences <i>(Choose ONE course.)</i>	3
ECON 1101 Principles of Economics (3)	
ECON 2105 Principles of Macroeconomics (3)	
ECON 2106 Principles of Microeconomics (3)	
HIST 1111 World History I (3)	
HIST 1112 World History II (3)	
HIST 2111 American History I (3)	
HIST 2112 American History II (3)	
POLS 1101 American Government (3)	
PSYC 1101 Introduction to Psychology (3)	
SOC1 1101 Introduction to Sociology (3)	
Area III: Natural Sciences / Mathematics <i>(Choose ONE course.)</i>	3
MATH 1101 Mathematical Modeling (3)	
MATH 1103 Quantitative Skill and Reasoning (3)	
MATH 1111 College Algebra (3)	
Area IV: Humanities/Fine Arts <i>(Choose ONE course.)</i>	3
ARTS 1101 Art Appreciation (3)	
ENGL 2130 American Literature (3)	
ENGL 2310 English Literature from the Beginnings to 1700 (3)	
HUMN 1101 Introduction to Humanities (3)	
MUSC 1101 Music Appreciation (3)	
RELG 1101 Introduction to World Religions (3)	
Elective: General Education <i>(Choose ONE course option.)</i>	3
**Any course not taken in Area I- IV above, or any course below.	
ENGL 1102 Literature and Composition (3)	
SPCH 1101 Public Speaking (3)	
BIOL 1111 Biology I (3) + BIOL 1111L Biology I Lab (1)	
BIOL 1112 Biology II (3) + BIOL 1112L Biology II Lab (1)	
CHEM 1211 Chemistry I (3) + CHEM 1211L Chemistry I Lab (1)	
CHEM 1212 Chemistry II (3) + CHEM 1212L Chemistry II Lab (1)	
MATH 1113 Precalculus (3)	
MATH 1127 Introduction to Statistics (3)	
MATH 1131 Calculus I (4)	
MATH 1132 Calculus II (4)	
PHYS 1110 Conceptual Physics (3) + PHYS 1110L Conceptual Physics Lab (1)	
PHYS 1111 Introductory Physics I (3) + PHYS 1111L Introductory Physics I Lab (1)	
PHYS 1112 Introductory Physics II (3) + PHYS 1112L Introductory Physics II Lab (1)	

Occupational Courses

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Required Courses:

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- AUMF 1110 Flexible Manufacturing Systems I (5)
- AUMF 1560 Manufacturing Production Requirements (1)
- IDSY 1101 DC Circuit Analysis (3)
- IDSY 1105 AC Circuit Analysis (3)
- IDSY 1170 Industrial Mechanics (4)
- IDSY 1240 Maintenance for Reliability (4)
- AUMF 1130 Applied Hydraulics, Pneumatics, and Mechanics (2)
- IDSY 1260 Machine Tool for Industrial Repairs (4)

Industrial/Mechanical Specialization

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- AMCA 2110 CNC Fundamentals (4)
- AUMF 1210 - Flexible Manufacturing Systems II (5)
- IDSY 1160 - Mechanical Laws and Principles (4)
- MCHT 1020 Heat Treatment and Surface Grinding (4)
- MEGT 2100 - Manufacturing Quality Control (3)

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Occupational Elective: *Choose 3 credit hours.*

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- IDSY 1190 Fluid Power and Piping Systems (4)
- MEGT 1010 Manufacturing Processes (3)

Total Credit Hour (minimum):

64