

# Industrial Systems Technology

## Associate of Applied Science Degree

IS13

### Curriculum

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<b>General Education Core</b>	<b>15</b>
<b>Area I: Language Arts/Communication</b>	3
ENGL 1101 Composition and Rhetoric (3)	
<b>Area II: Social/Behavioral Sciences <i>(Choose one)</i></b>	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)	
<b>Area III: Natural Sciences / Mathematics <i>(Choose one)</i></b>	3
MATH 1100 Quantitative Skills and Reasoning (3)	
MATH 1101 Mathematical Modeling (3)	
MATH 1103 Quantitative Skill and Reasoning (3)	
MATH 1111 College Algebra (3)	
<b>Area IV: Humanities/Fine Arts <i>(Choose one)</i></b>	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)	
<b>Elective: General Education <i>(Choose one)</i></b>	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)	
<b>Occupational Courses</b>	
<b>Required Courses:</b>	<b>48</b>

IDSY 1130 Industrial Wiring (4)  
IDSY 1170 Industrial Mechanics (4)  
IDSY 1110 Industrial Motor Controls I (4)  
IDSY 1210 Industrial Motor Controls II (4)  
IDSY 1120 Basic Industrial PLCs (4)  
IDSY 1220 Intermediate Industrial PLCs (4)  
IDSY 1190 Fluid Power Systems (4)  
IDSY 1195 Pumps and Piping Systems (3)  
IDSY 1101 DC Circuit Analysis (3)  
IDSY 1105 AC Circuit Analysis (3)

**Occupational Electives:** *(Choose 11 credit hours)*

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IDFC 1011 Direct Current (3)  
ELTR 1010 Direct Current Fundamentals (3)  
ELTR 1020 Electrical Systems Basics I (3)  
IDFC 1012 Alternating Current I (3)  
IDSY 1150 DC and AC Motors  
IDSY 1160 Mechanical Laws and Principles (3)

**Total Credit Hour (minimum):**

**63**