

## Industrial Technologies

AAS INTE – Millwright Emphasis

201809 Revised 10/2020 (Fall 2021)

General Education Requirements	Credits	Semester Taken	Prerequisites
ENGL 101    Composition and Reading I	3		ENGL 90 with a minimum grade of S or appropriate placement score
ENGL 215    Technical Writing <b>or</b> SPAN 100    Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120    United States History to 1865 <b>or</b> HIST 121    United States History Since 1865 <b>or</b> POLS 136    Introduction to U.S. National Politics	3		
COMM 100    Fundamentals of Speech	3		ENGL 90 with a minimum grade of S or appropriate placement score.
<b>Option 1:</b> MATH 103    Technical Mathematics I or MATH 120    College Algebra and MATH 104    Technical Mathematics II or MATH 130    Trigonometry <b>Option 2:</b> MATH 150    PreCalculus or higher	5-6		MATH 31 with a grade of S or appropriate placement (MATH 103 and MATH 104) MATH 95 with a grade of C or appropriate placement (MATH 120 and MATH 150) MATH 120 or appropriate placement score (MATH 130)
Any course numbered 100 or higher from the following disciplines: ART, ANTH, COMM, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MUSI, PHIL, POLS, PSYC, SIGN, SOSOC, SOCI, THEA	3-5		
<b>Minimum Total General Education Credit Hours</b>	<b>20-23</b>		
<b>Core Program Requirements</b>			
INTE 107    Industrial Electrical Safety	2		
EHSS 111    Introduction to Health and Safety for General Industry	1		
INTE 112    Industrial Electrical DC Principles	2		Concurrent enrollment or completion of MATH 103 or higher
INTE 113    Industrial Electrical AC Principles	2		INTE 112 or equivalent
INTE 115    Electrical Print Reading	3		INTE 113
INTE 140    Fundamentals of Industrial Machine Repair	3		
INTE 175    Electric Motor Controls I	3		HVAC 109 or INTE 115
<b>Specific Program Requirements</b>			
CIMM 101    Machine Shop Safety	1		
CIMM 102    Basic Lathe Operation	1		CIMM 101 or concurrent enrollment
CIMM 103    Basic Mill Operation	1		CIMM 101 or concurrent enrollment
HVAC 230    Sheet Metal Layout and Fabrication	4		
INTE 150    Fundamentals of Hydraulics and Pneumatics	3		
INTE 151    Industrial Rigging	3		
INTE 240    Adv. Industrial Machine Repair	3		INTE 140
INTE 260    Industrial Pipefitting and Plumbing Fundamentals	3		INTE 140
WELD 110    Welding Industry Fundamentals	3		
WELD 120    Thermal Cutting Processes Lecture and	1		WELD 110 or taken concurrently
WELD 121    Thermal Cutting Processes Lab	2		WELD 120 or taken concurrently
<b>Total Credit Hours Required</b>	<b>61-64</b>		