

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 0186 (Effective Fall 2017 – Summer 2022)		Welding Technology A.A.S. Pathway	
Semester I	Course Title	Prerequisites	Credit/ Billing Hours
Program of Study Requirements			
METM 108	Machine Tool Operations	Minimum 2.0 in (METD 100 or METD 150 or Drafting Placement Test 80%) and Reading Level 3 and Writing Level 4 and Math Level 4	4 / 6
METS 140	Rigging	Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 4	3 / 4.5
WELD 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
WELD 103	Combination Welding	Reading Level 3 and Writing Level 2	4 / 6
WELD 110	Gas Metal ARC Welding	Reading Level 3 and Writing Level 2	4 / 6
Credits			17 / 25.5

Semester II	Course Title	Prerequisites	Credit/ Billing Hours
Science Core Area - <i>Select 1</i>			
METM 190	Metallurgy and Heat Treatment	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
Program of Study Requirements			
WELD 105	Advanced ARC Welding	Minimum 2.0 in WELD 103 and Reading Level 3 and Writing Level 2	4 / 6
WELD 111	Gas Tungsten ARC Welding	Minimum 2.0 in (WELD 103 or AUTO 100 or AUTO 114) and Reading Level 3 and Writing Level 2	4 / 6
WELD 125	Structural Blpt Reading/Weld	Reading Level 3 and Writing Level 2 and Math Level 4	2 / 2
Credits			14 / 20

Semester III	Course Title	Prerequisites	Credit/ Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 110 <i>(formerly SPCH 110)</i>	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
Program of Study Requirements			
WELD 201	Tool and Die Welding	Minimum 2.0 in (METM 190 and WELD 105 and WELD 111) and Reading Level 3 and Writing Level 2	3 / 4.5
WELD 220	Structural Fab & Inspection	Minimum 2.5 in (WELD 105 and WELD 110 and WELD 125) and Reading Level 3 and Writing Level 2 and Math Level 4	4 / 6
Technical Related Electives - <i>Select 1</i>			
ELTE 108	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
ELTE 109	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or ELTE 118 or concurrently)) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
METM 100	Manufacturing Processes	Reading Level 3 and Writing Level 4	3 / 4.5
WELD 115	Robotic MIG Welding	Minimum 2.0 in WELD 110 and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
WELD 250	Welding Internship	Department Approval	3 / 3
Credits			15-16 / 19.5-21

Semester IV	Course Title	Prerequisites	Credit/ Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 124 <i>(formerly WRIT 124)</i>	Technical Writing	(Reading Level 5 and Writing Level 6) or AASD 105 concurrently	3 / 3
Math Core Area - <i>Select 1</i>			
MATH 115	Technical Math II	(Minimum 2.0 in MATH 114 within 2 years or Math Level 5 within 2 years) and Reading Level 5	4 / 4
Program of Study Requirements			
WELD 205	Pipe Welding	Minimum 2.5 in WELD 105 and Reading Level 3 and Writing Level 2	4 / 6
Technical Related Electives - <i>Select 1</i> <i>Courses may not be duplicated.</i>			
METM 100	Manufacturing Processes	Reading Level 3 and Writing Level 4	3 / 4.5
WELD 115	Robotic MIG Welding	Minimum 2.0 in WELD 110 and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
WELD 250	Welding Internship	Department Approval	3 / 3
			Credits
			14 / 16-17.5
			Total Credits
			60-61 / 81-84