

Welding Technology Academic Degree Map

Associate of Applied Science



Year 1 – Fall Semester			
Course Code	Course Title	Credits	Notes
WLD 1001	Welding Safety	1	
WLD 1010	OSHA 10	1	
WLD 110	Welding Metallurgy	1	
WLD 1153	Blueprint Reading	3	
WLD 118	Discontinuities and Defects	1	
WLD 1303	Cutting Processes	3	
WLD 140	Intro to SMAW	3	Prerequisite(s): WLD 1010 OSHA 10 and WLD 1001 Welding Safety or WLD 100 Welding Safety/OSHA 10
WLD 150	Intro to GMAW	3	Prerequisite(s): WLD 1010 OSHA 10 and WLD 1001 Welding Safety or WLD 100 Welding Safety/OSHA 10
WLD 171	Intro to GTAW	3	Prerequisite(s): WLD 1010 OSHA 10 and WLD 1001 Welding Safety or WLD 100 Welding Safety/OSHA 10
EMP 1901	Global Employment Standards	1	
CREDIT HOURS SUBTOTAL		20	
Year 1 – Spring Semester			
Course Code	Course Title	Credits	Notes
WLD 116	Fabrication	1	Prerequisite(s): WLD 1001, WLD 1010, WLD 110, WLD 1153, WLD 118, WLD 1303, WLD 140, WLD 150, WLD 171 with a grade of “C” or higher
WLD 145	SMAW Advanced Structural	4	Prerequisite(s): WLD 1001, WLD 1010, WLD 110, WLD 1153, WLD 118, WLD 1303, WLD 140, WLD 150, WLD 171 with a grade of “C” or higher
WLD 155	GMAW Advanced	4	Prerequisite(s): WLD 1001, WLD 1010, WLD 110, WLD 1153, WLD 118, WLD 1303, WLD 140, WLD 150, WLD 171 with a grade of “C” or higher
WLD 1604	Flux Cored Arc Welding Structural	4	Prerequisite(s): WLD 1001, WLD 1010, WLD 110, WLD 1153, WLD 118, WLD 1303, WLD 140, WLD 150, WLD 171 with a grade of “C” or higher
WLD 165	SMAW/GTAW Pipe Welding	3	Prerequisite(s): WLD 1001, WLD 1010, WLD 110, WLD 1153, WLD 118, WLD 1303, WLD 140, WLD 150, WLD 171 with a grade of “C” or higher
WLD 1764	GTAW Advanced	4	Prerequisite(s): WLD 1001, WLD 1010, WLD 110, WLD 1153, WLD 118, WLD 1303, WLD 140, WLD 150, WLD 171 with a grade of “C” or higher Prerequisite(s): WLD 1010 OSHA 10 and WLD 1001 Welding Safety or WLD 100 Welding Safety/OSHA 10
WLD 190 OR WLD 199	Welding Project Management Occupational Work Experience	2	Prerequisite(s): WLD 1001, WLD 1010, WLD 110, WLD 1153, WLD 118, WLD 1303, WLD 140, WLD 150, WLD 171 with a grade of “C” or higher.
CREDIT HOURS SUBTOTAL		22	
Year 2 – Fall Semester			
Course Code	Course Title	Credits	Notes
	Math Option ¹	3	Based upon placement testing requirements.
	English Option ²	3	Based upon placement testing requirements.
	General Education Elective ³	3	Recommended general education elective.
	General Education Elective ³	3	Recommended general education elective.
CREDIT HOURS SUBTOTAL		12	
Year 2 – Spring Semester			
Course Code	Course Title	Credits	Notes
	Technical Elective ⁴	3	Suggested technical elective option.
	Technical Elective ⁴	3	Suggested technical elective option.
	General Education Elective ³	3	Recommended general education elective.
CREDIT HOURS SUBTOTAL		9	
TOTAL HOURS IN PROGRAM: 63			

Math Options¹			
Course Code	Course Title	Credit Hours	Notes
MAT 109	Technical Mathematics II	3	Prerequisite(s): Meet placement guidelines OR MAT 101 with a grade of "C" or higher OR MAT 108 with a grade of "C" or higher.
MAT 110	Intermediate Algebra	3	Prerequisite(s): Meet placement guidelines OR MAT 108 Beginning Algebra with a grade of "C" or higher.
MAT 135	College Algebra	3	Prerequisite(s): Meet Placement Guidelines OR MAT 109 with a grade of "C" or better OR MAT 110 with a grade of "C" or better.

English Options²			
Course Code	Course Title	Credit Hours	Notes
COM 110	Technical Writing	3	Prerequisite(s): Meet placement guidelines.
COM 105	English Composition I	3	Prerequisite(s): Meet placement guidelines.
COM 106	English Composition II	3	Prerequisite(s): COM 105 with a grade of "C" or higher.

General Education Elective Options³			
Course Code	Course Title	Credit Hours	Notes
COM 115	Public Speaking	3	
COM 116	Interpersonal Communications	3	Prerequisite(s): Meet placement guidelines.
HIS 106	U.S. History Since 1877	3	
HIS 105	U.S. History to 1877	3	
NTR 105	Nutrition	3	
POL 105	American Government	3	
PSY 100	General Psychology	3	
PSY 125	Human Growth & Development	3	
SOC 100	Intro to Sociology	3	
BSC 110	Biology	5	
BSC 125	Anatomy & Physiology	5	Prerequisite(s): BSC 110 with a "C" or higher or High School Anatomy & Physiology within five years with a "C" or higher and permission of instructor.
BSC 205	Microbiology	5	Prerequisite(s): BSC 110 with a "C" or higher or permission of instructor.
CHM 105	Intro to Chemistry -- KRSN CHM1030	5	Prerequisite(s): High school Algebra with "C" or higher.
CHM 110	Chemistry I--KRSN CHM1010	5	Prerequisite(s): Secondary or Post-secondary General Chemistry or Physical Science and Algebra within 5 years with grades of C or higher.
MAT 145	Elementary Statistics	3	Prerequisite(s): Meet placement guidelines OR MAT 109 with a grade of "C" or better OR MAT 110 with a grade of "C" or better.
MAT 155	Trigonometry	3	Prerequisite(s): MAT 135 College Algebra with a grade of "C" or higher.
MAT 101	Technical Mathematics I	3	Prerequisite(s): Meet placement guidelines.
MAT 109	Technical Mathematics II	3	Prerequisite(s): Meet placement guidelines OR MAT 101 with a grade of "C" or higher OR MAT 108 with a grade of "C" or higher.
COM 110	Technical Writing	3	Prerequisite(s): Meet placement guidelines.
PHY 100	General Physics	3	Prerequisite(s): Intermediate algebra.
COM 106	English Composition II	3	Prerequisite(s): COM 105 with a grade of C or higher.
CIS 100	Software Applications	3	

Suggested Technical Elective Options⁴			
Course Code	Course Title	Credit Hours	Notes
ACC100	Business Accounting	3	
ACC 120	Financial Accounting	3	Prerequisite(s): ACC100 with a grade of C or higher or successful completion of a basic accounting course at the high school or college level.
BUS 111	Personal Finance	3	
BUS 126	Introduction to Business	3	

† Additional Technical Elective options are available; see an advisor.