

Student Name _____

High School _____



WELDING TECHNOLOGY PROGRAM OF STUDY

Education Planning Guide for High School and Beyond

This Education Planning Guide is designed to assist students toward developing a program of study well suited for preparation and pursuit of careers within the Welding industry. The program of study as outlined below allows students to earn college credit while completing coursework within high school, and apply those credits toward attainment of a college certificate and/or degree. **The Tech Prep dual credit courses are shown in blue/TP.** As with all high school planning, it is important to share and review your plan with a parent/guardian and school counselor.

School District Component of Program of Study	Gr	English	Social Studies	Science	Math	Health/Fitness	Arts	Career & Technical	Recommended Courses	School District Graduation Requirements
	9					Strength & Conditioning	Sculpture 3-D Design Drawing	Metals Technology ^{TP} Drafting/CAD ^{TP} Construction ^{TP} Manufacturing ^{TP}	English Composition	Credit Requirements (credits total): credits - English credits - Social Studies credits - Math credits - Science credits - Health credits - Physical Education credits - Art credits - Career and Technical credits - Electives Additional Requirements: • High School and Beyond Plan • Culminating Project • Certificate of Academic Achievement or approved alternative
	10								Chemistry	
	11								Materials Science	
	12								Psychology	
						Algebra II	Geometry	Trigonometry		

***Take College Placement Assessment/Academic-Career Advisement Provided**

Post - High School Options for Program of Study	Program Options	Earn a Program Certificate Basic Welding Skills	Earn a Program Certificate Industrial Welding	Earn a 2-year Degree (AAS) Associate of Applied Science Degree	Earn a Transfer Degree (AAS-T) Associate of Applied Science Transfer Degree
	Program Requirements	Completion 2 quarters/40 credits <i>students complete 40 credits from the following required courses:</i> COM 170 Oral & Written Communications – 5 cr MATH 100 Occupational Math – 5 cr PSYC 111 Interpersonal & Organizational Psych – 5 cr WLD 101 Welding Safety I – 2 cr WLD 104 Career Opportunities for Welders - 2 cr WLD 105 Thermal Cutting Processes – 3 cr WLD 110 SMAW I – 4 cr WLD 120 GMAW I – 4 cr WLD 102 Welding Safety II – 2 cr WLD 103 Hand & Power Tools – 4 cr WLD 106 Print Reading I – 2 cr WLD 107 Welding Leadership I – 1 cr WLD 110 SMAW I – 4 cr WLD 120 GMAW I – 4 cr WLD 121 GMAW Aluminum I – 4 cr WLD 130 FCAW I – 4 cr WLD 141 GTAW Aluminum I – 4 cr WLD 151 Aluminum Fabrication I – 3 cr WLD 141 GTAW Aluminum I – 4 cr WLD 150 Steel Fabricating I – 2 cr	Completion 5 quarters/100 credits COM 170 Oral & Written Communications - 5 cr MATH 100 Occupational Math - 5 cr PSYC 111 Interpersonal & Organizational Psych - 5 cr WLD 101 Welding Safety I - 2 cr WLD 102 Welding Safety II - 2 cr WLD 103 Hand & Power Tools - 4 cr WLD 104 Career Opportunities for Welders - 2 cr WLD 105 Thermal Cutting Processes - 3 cr WLD 106 Print Reading I - 2 cr WLD 107 Welding Leadership I - 1 cr WLD 110 SMAW I - 4 cr WLD 120 GMAW I - 4 cr WLD 121 GMAW Aluminum I - 4 cr WLD 130 FCAW I - 4 cr WLD 140 GTAW I - 4 cr WLD 141 GTAW Aluminum I - 4 cr WLD 150 Steel Fabricating I - 2 cr WLD 151 Aluminum Fabrication I - 3 cr WLD 206 Print Reading II - 3 cr WLD 208 Metallurgy - 3 cr WLD 209 Codes & Standards (Steel & Pipe only) - 2 cr	Completion 6 quarters/120 credits COM 170 Oral/Written Communications - 5 cr MATH 100 Occupational Math - 5cr PSYCH 111 Interpersonal & Organizational. Psych - 5 cr WLD 101 Welding Safety I - 2 cr WLD 102 Welding Safety II - 2 cr WLD 103 Hand & Power Tools - 4 cr WLD 104 Career Opportunities for Welders - 2 cr WLD 105 Thermal Cutting Process - 3 cr WLD 106 Print Reading I - 2 cr WLD 107 Welding Leadership - 1 cr WLD 110 SMAW I - 4 cr WLD 120 GMAW I - 4 cr WLD 121 GMAW Aluminum I - 4 cr WLD 130 FCAW I - 4 cr WLD 140 GTAW I - 4 cr WLD 141 GTAW Aluminum I - 4 cr WLD 150 Steel Fabricating I - 2 cr WLD 151 Aluminum Fabrication I - 3 cr WLD 206 Print Reading II - 3 cr WLD 207 Welding Leadership II - 1 cr WLD 208 Metallurgy - 3 cr WLD 209 Codes & Standards - 2 cr WLD 271 WABO/ASME Testing – 6 cr WLD 295 Capstone - 4 cr	To complete a transfer degree option, students must also take: ENGL& 101 English Composition I – 5cr MATH& 141 Precalculus I - 5 cr OR MATH& 107 Math in Society - 5 cr PSYCH& 100 General Psychology 5 cr Plus 5 credits in social science, humanities or science Earn a Bachelor's Degree On-line and traditional options include: City University DeVry University Minot State University Peninsula College Seattle Pacific University University of Phoenix For current information, go to BTC's website. Select <i>Student Services and Transfer Options:</i> http://www.btc.ctc.edu/
		For current information, go to BTC's website: http://www.btc.ctc.edu/	Plus 32 additional credits from structural fabrication, pipe or aluminum specialty courses (see catalog)	Plus 41 additional credits from structural fabrication, pipe or aluminum specialty courses (see catalog)	

Most program graduates work as welders in the metal or construction trades (entry salary range: \$35,000 - \$75,000). Students can specialize in structural steel welding & fabrication, pipe welding & fitting, or aluminum welding and fabrication. Students completing an AAS in the Welding program must pass a Washington Association of Building Officials (WABO) welding certification test, or Aluminum Qualification Test (in-house).