

District: Hanford Joint Union High School District Site: Hanford West High School



Industry Sector: Manufacturing and Product Development

Pathway: Welding and Materials Joining (213)

Student Organization: Skills USA

California Sample Program of Study

Grade	English Language Arts	Math	Social Studies	Science	Career Technical Education Course	Other Required Courses or Recommended Electives		Sample Occupations relating to this pathway
9	<i>English 1 (1510)</i>	<i>Int Math 1 (2200)</i>		<i>Int Sci 1 (2530)</i>	Intro to Manufacturing (5280)	PE 1 (4500)	<i>Art 1 (3500) or Spanish 1 (3000)</i>	Occupations requiring a high school diploma <ul style="list-style-type: none"> Welder Fabricator Machinist CNC Operator Industry recognized certifications, licenses, credentials or apprenticeships related to this pathway. <ul style="list-style-type: none"> AWS Level 1 Welder (Certificate) HAAS CNC Operator (Certificate) Career Essentials (Certificate) Northland Process Piping (App) Morgan and Slates (App) R&R Welding (App)
10	<i>English 2 (1640)</i>	<i>Int Math 2 (2201) or Int Math 2-H (2202)</i>	<i>World History (1050)</i>	<i>Biology (2530)</i>	Int Welding and Materials (5290)	PE 2 (4510)	<i>Spanish 2 (3010)</i>	
11	<i>English 3 (1670)</i>	<i>Int Math 3 (2205) or Int Math 3-H (2206)</i>	<i>US History (1090)</i>	<i>Chemistry (2620)</i>	Adv Welding and Materials (5575) OR Adv Welding Stainless (5571)			
12	<i>English 4 (1700)</i>	<i>AP Calculus (2150)</i>	<i>Gov / Econ (1130/1170)</i>	<i>Physics-H (2650)</i>				

2 Year Postsecondary Degree/Certificate Programs

4 Year Postsecondary Program Options

College of the Sequoias

- Welding Technology, A.S
- Certificate of Achievement in Welding
- Certificate of Completion in Basic Welding Competency

Reedley College

- Machine Tool Technology, A.S
- Welding Technology, A.S
- Manufacturing Maintenance Mechanics, A.S
- Certificate of Achievement (Manufacturing, Machinist, Welder, Manufacturing Maintenance Mechanic)

Fresno City College

- Welding Technology Certificate
- Welding Design and Fabrication
- Welding Multi-Process
- Computer Aided Manufacturing Certificate of Achievement
- Manufacturing Technician Certificate

CSU Fresno State

- Industrial Technology, B.S

CSU Cal Poly SLO

- Industrial and Manufacturing Engineering, B.S
- Materials Engineering, B.S

Occupations requiring some post-secondary

- Welder
- Fabricator
- Machinist
- CNC Operator

Occupations requiring a 2 year Degree

- Welder
- Fabricator
- Machinist
- CNC Operator
- CNC Programmer

Occupations requiring a BA/BS Degree

- CTE Teacher
- Industrial Engineer
- Manufacturing Engineer

Color Key As Follows:

Other Required Courses (A-G courses italicized)

Required Courses (A-G courses italicized)

Dual/Concurrent Enrollment - Articulated Courses

Career Technical Education Courses (A-G courses italicized)

Certificate/Postsecondary Options

Sample Occupations/Certifications

