



Pathway: Power, Structural & Technical Systems

Plan of Study: Agricultural Education, Welding

Career Goal (O*Net Code): Welders, Cutters, Welder Fitters (51-4121.06)

Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	Geography, English 9, Algebra I, Earth Science, Computer Applications and Keyboarding	Suggested Electives: Environmental Science, P.E. Credit
		Career Path Courses:	Exploring Agriculture, Section A & B	
	10 th	Core Academic Courses*:	English 10, Biology, Geometry, Speech	Suggested Electives: World History or Colorado History, P.E. Credit, Wood Crafting
		Career Path Courses:	Ag Construction, Ag Welding	
	11 th	Core Academic Courses*:	English 11, U.S. Studies, Algebra II, Physical Science, Career & Life Management	Suggested Electives: Colorado Online College Prep Course, English Elective, Robotics, Physics
		Career Path Courses:	Advanced Project Construction, Ag Leadership	
	12 th	Core Academic Courses*:	English 12, Political Studies	Suggested Electives: Work Experience or Internship, Pre-Calculus, Industrial Technology, Physics
		Career Path Courses:	Advanced Ag Leadership, Advanced Welding	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Duel Enrollment at Western Colorado Community College, UTEC Campus Welding Certificate Duel Enrollment at Job Corps, Welding Program
	Industry Recognized Certificate(s) or License(s): AWS Welding Certification

Postsecondary Education Opportunities	Colorado Postsecondary Programs Available		Colorado Institutions	Entrance Exams/ Requirements
	Certificate	Welding Technology Program Certificate of Occupational Proficiency	Western Colorado Community College Collbran Job Corps Civilian Conservation Center San Juan Basin Area Vocational School Morgan Community College	HS Concurrent Enrollment available as a senior for WCCC.
	Associate Degree	Welding Technology Program Welder Technician Program	Mesa State College Ames Community College Community College of Aurora Community College of Denver Welding Technician Program Front Range Community College Pikes Peak Community College Pueblo Community College Red Rocks Community College	Contact counselor for individual requirements. Often open enrollment.
	Bachelor Degree	Welding Technology + Welder	(No Colorado Institutions Available) Utah State University University of Montana Lewis – Clark State University Montana Tech of the University of Montana	Usually ACT of 18 or better GPA of 3.0 or better.
	Graduate Degree	NA	NA	

Career & Technical Education is delivered through the Colorado Community College System

www.cccs.edu



Cluster Overview: The **Agricultural, Food and Natural Resources** cluster focuses on careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.

Extended Learning Experiences

<p>Curricular Experiences:</p> <p><u>Plateau Valley FFA Chapter:</u> Participate in leadership training, career exploration and compete in a variety of activities.</p> <p><u>FFA Ag Mechanics Team:</u> Compete for prizes and scholarship in 9 areas of welding, construction, etc.</p> <p><u>Robotics Team:</u> Work with a team to build a robot and compete in the FIRST competition.</p>	<p>Extracurricular Experiences:</p> <p>Sports: Will help maintain needed physical conditioning.</p> <p>FFA Ag Mechanics Competitions (Extracurricular time needed.)</p> <p>Robotics Competitions (Extracurricular time needed.)</p>
<p>Work-Based Learning Experiences:</p> <p>Welding Apprentice Internship: Work as welder's helper in the field to see first hand what this career entails. Also receive school credit.</p>	<p>Program Accreditation and/or Professional Association(s):</p>
<p>Service Learning Experiences:</p> <p>Various Area 4-H Clubs</p> <p>Job Shadowing Experiences</p> <p>National Honor Society (3.25 GPA or better)</p>	

Career Options:		Salary Range:
Certificate	Welders Helper Welders Apprentice	\$
Associate Degree	Welder / Cutter	\$\$
Bachelor Degree	Certified Welder	\$\$\$
Graduate Degree	NA	\$\$\$\$

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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