Agriculture and Natural Resources:
Agriculture Mechanics

PLEASANT VALLEY HIGH SCHOOL

Course Sequence

Ag Mechanics & Welding I ➔ Ag Mechanics & Welding II ➔ Ag Advanced Welding

Course Descriptions

**Ag Mechanics & Welding I (Introductory)**
* A-G “G” Elective
Agriculture Mechanics and Welding I is a course designed to give students shop skills necessary to build a strong foundation in Agriculture Mechanics. Specific units include: Using the Ag. Mechanics Shop, Measurement, Hot Metal, Cold Metal, Project Planning, Electrical, Plumbing Systems and Water Use, Concrete and Masonry, Wood Working, Power Mechanics, and Ag Mechanics Careers. Students will have the opportunity to participate in leadership development, field days, become an FFA Officer, competition and judging teams along with entering exhibits (livestock or shop projects) in local fairs. FFA projects and record books are used. Meets district CTE Requirements.

**Ag Mechanics & Welding II (Concentrator)**
* A-G “G” Elective
Agriculture Mechanics and Welding II is designed to build upon skills gained in Ag Mechanics & Welding I with more time spent in the shop learning different types of welding. Specific units include: Using the Ag Mechanics and Welding shop, Measurement, Project Planning, Oxygen/Acetylene Torch Welding, Gas Metal Arc Welding, Shielded Metal Arc Welding, Individual SAE Project, Small Engines and Careers in Agriculture Fabrication and Mechanics. Students will have the opportunity to participate in leadership development, field days, become an FFA Officer, competition and judging teams along with entering exhibits (livestock or shop projects) in local fairs. FFA projects and record books are used. Meets district CTE Requirements.

**Ag Advanced Welding (Capstone)**
*Optional Butte College Credit
Students will learn skills in the areas of welding, sheet metal, light construction, use of tools and equipment and safety. Upon completion, students will be qualified for entry-level jobs in welding, cutting and metal fabrication. Course objectives aim to prepare students for optional AWS Welding Certification training. Students may be placed in internships for related hands-on training. Work-based learning and advanced lab techniques, large FFA projects, and application to industry and real-world settings are emphasized. FFA projects and record books are used.

*Student who completed Welding Technology 1 or Advanced Welding in 2022-2023 may enter pathway next level they would have in manufacturing pathway

POST-SECONDARY OPTIONS:

**Butte College**
- Welding Program
  Certificate of Achievement
- AS Degree: Welding Technology Program
- AA Degree: Adv. Manufacturing

**CSU, Chico**
- BS Degree
  Manufacturing Technology
- BS Degree: Agriculture
  Option in Ag. Education

HIGHLIGHTED CAREERS:
- Welder
- Welding Inspector
- Manufacturing
- Mechanical Engineer
- Maintenance/Service Technician

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Career and Technical Student Service