

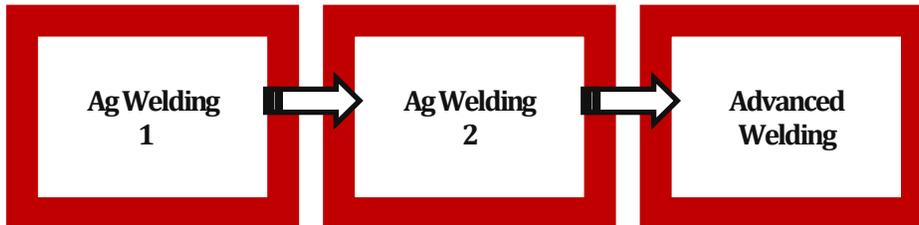
Agriculture and Natural Resources: Ag Mechanics



CHICO HIGH SCHOOL

2019-2020

Ag Mechanics Pathway Course Sequence



Course Descriptions

Ag Welding I

* A-G "F" Area

This course covers general **shop safety, AC/DC arc welding and oxygen-acetylene welding** in flat positions. Welding 1B covers more advanced and job oriented welding processes used in the welding and agriculture fabrication industries. These include: **Gas Metal Arc Welding (GMAW)** or wire welding, oxygen-acetylene welding, and cutting. The last quarter of the class students will design and fabricate individual projects: Time in class: 40%; time in lab: 60%. ***FFA** projects and record books are used.

Ag Welding II

* A-G "F" Area

Prerequisite: Ag Welding I

Instruction in both **theory and lab** application is designed to prepare students for careers related to **agriculture construction, repair, operation, and maintenance of equipment used in the agriculture industry.** **Agricultural mechanics skills, construction, and safety** are covered along with **electrical systems, cold metal work, and welding technology.** FFA projects and record books are used.

Advanced Welding

*Optional Butte College Credit

Prerequisite: Ag Welding I I

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.

POST-SECONDARY OPTIONS:

Butte College

- *Welding Program Certificate of Achievement*
- *AS Degree: Welding Technology Program*

CSU, Chico

- *BS Degree: Manufacturing Technology*
- *BS Degree: Agriculture (see CSUC options)*

HIGHLIGHTED CAREERS:

- Welder
- Welding Inspector
- Welder/Fabricator/Fitter

Contact:

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Career and Technical Student Service



Note: These templates are designed to help guide students. The order of some classes may vary and individual variation can be applied.