

CFISD Agricultural Equipment Design & Fabrication

Scope and Sequence

Endorsement: Business & Industry

Cluster: Agriculture, Food, & Natural Resources

Meets advanced course requirement? YES ▾

Program of Study: Applied Ag Engineering

Meets foundation requirement for math, science, fine arts, English, LOTE? NO ▾

Course Description:

To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. In this course, students will take projects from the design stage through construction and completion. Projects might include items such as agricultural machinery and equipment, fences, corrals, or other agricultural enclosures.

TEKS link

- 1 credit
- Grades 11-12
- Lab supplies or fee may be required
- Required prerequisites: Ag Mechanics
- Recommended prerequisites:

Industry Certification/Credential: American Welding Society D1.1

TEA recognized IBC (to count toward program of study completion)? YES ▾

Instructional Units	Grading Period
Personal & Occupational Health & Safety Mathematics & Measurement in Construction Project Management Skills Technology, Programming and Automation	N1 (fall)
Computer Aided Design Techniques Hand Tool ID & Terminology Portable Wood Power Tools: Safety, Operation & ID Large Wood Power Tools: Safety, Operation & ID Large Metal Power Tools: Safety, Operation, & ID	N2 (fall)
Gooseneck Stock Trailer Construction Oxy-Fuel Cutting Plasma Arc Cutting Shielded Metal Arc Welding: Preparation & Safety Gas Metal Arc Welding: Equipment, Set-Up & Maintenance Fencing Tools & Techniques AWS Certification	N3 (spring)
Power, Structural & Technical Systems Formulas for Career Success: Career Testing & Investigation Internships 101: The Importance of Internships Employability Skills Workplace Issues	N4 (spring)

Primary Instructional Materials: iCEV Agricultural Science Site by CEV Multimedia Ltd.

Supplementary Instructional Materials: