

CFISD Agricultural Mechanics & Metal Technologies

Scope and Sequence

Endorsement: Business & Industry

Cluster: Agriculture, Food, & Natural Resources

Meets advanced course requirement? NO ▾

Program of Study: Applied Ag Engineering

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

Course Description:

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metalworking techniques. Construction of a project or demonstration of skills will fulfill the requirements of the Supervised Agricultural Experience Program.

TEKS link

- 1 credit
- Grades 10-12
- Lab supplies or fee may be required
- Required prerequisites: Principles of Agriculture (or concurrent for 10th graders)
- Recommended prerequisites:

Industry Certification/Credential: American Welding Society D9.1

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

Instructional Units	Grading Period
Basic Shop Safety (OSHA-10 Certification) Hand Tool ID & Terminology Marking & Measuring Devices Technology, Programming and Automation	N1 (fall)
Welding Shop Safety Oxy-Fuel Set-Up & Safety Oxy-Fuel Cutting Intro to Plasma Cutting/Other Cutting Techniques Oxy-Fuel Welding & Brazing Shielded Metal Arc Welding Program of study review	N2 (fall)
Gas Metal Arc Welding Flux Cored Arc Welding AWS certification	N3 (spring)
Plumbing Electrical AC/DC Theory Electrical Application Building Construction Welding Certification Prep Small Engine	N4 (spring)

Primary Instructional Materials: Agricultural Mechanics and Technology Systems by Goodheart-Willcox Company

Supplementary Instructional Materials: