

Agricultural Equipment Design and Fabrication with Lab Syllabus

Course Description/Goals:

This project based course in Agricultural Equipment Design and Fabrication, will help students develop knowledge and skills needed for a career in mechanized Agriculture. The students will take the skills learned in the Agriculture Mechanics and Metal Technology and design and fabricate projects in Agricultural Equipment. The course offers an opportunity to earn an AWS Welding certification.

Course TEKS/Objectives:

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings

[Agricultural Equipment Design and Fabrication with Lab TEKS](#)

Course Outline:

Semester 1	Semester 2
<ul style="list-style-type: none">-Leadership in Agriculture Education-Shop Safety-Employability / Careers-Project Planning-CAD-Building on Shielded Metal Arc Welding-Building on Cutting Methods	<ul style="list-style-type: none">-Project Based Learning - Fabrication Capstone-Advanced Welding Methods-AWS D9.1-Equipment Design Construction-Fabrication Laws & Regulations