

Advanced Projects I

PURPOSE: This course is devoted to individual project design and construction by the student. This class will supplement student preparation for a career in production ag, ag engineering, ag building construction or further training in ag mechanics.

HIGH ACHIEVEMENT UNIT OUTCOMES:

Outcome I: Explore employment opportunities in Agricultural Mechanics

Components: Mechanics in the World of Agriculture

Explore career options

Outcome II: Practice safe work habits

Components: Keep shop/work area clean and orderly

List basic first aid procedures

Outcome III: Demonstrate use of oxy-acetylene equipment, arc welding equipment (SMAW), MIG welding equipment (Metal Inert Gas), and Plasma Arc torch

Components: Perform welding and cutting skills

Build a simple shop project

Outcome IV: Plan for project construction

Components: Plan a sketch

Estimate cost

Outcome V: Demonstrate to calculate by hand

Components: Practice measuring metal

Calculate a shop bill

Outcome VI: Maintain a Supervised Agriculture Experience

Components: Maintain SAE

Set appropriate long and short term goals

Outcome VII: Participate in FFA

Components: Pay annual dues

Exhibit SAE

