

# AGRICULTURAL SYSTEMS & TECHNOLOGY 1

## **Course Description**

*Students will develop knowledge and skills in the application of principles and techniques of power, structural, and technical systems used in the agricultural industry, particularly agricultural production and service. Students will develop basic skills in areas of hot and cold metal work, tool reconditioning, plumbing, painting, bill of materials preparation, small gas engines, and welding. The basic practices associated with soil and water management are included. Safety and proper use of tools and equipment will be emphasized.*

## **Standard 1**

Participate in personal and leadership development activities through FFA.

## **Standard 2**

Participate in work-based learning activities through the Supervised Agricultural Experience (SAE) programs.

## **Standard 3**

Demonstrate appropriate safety practice in agricultural power, structural, and technical systems in laboratory and work settings.

## **Standard 4**

Plan, construct, and appropriately maintain agricultural structures.

## **Standard 5**

Demonstrate basic plumbing knowledge and perform simple plumbing skills.

## **Standard 6**

Select, operate, maintain, and repair small internal combustion engines.

## **Standard 7**

Fabricate with metal.

