

## AGRICULTURAL SYSTEMS & TECHNOLOGY 2

### ***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. Emphasis will be on selecting, operating, maintaining, servicing, and using agricultural power units and equipment. The course also includes agricultural uses of concrete and electricity. Safety and the proper use of safe practices will be integrated throughout the instruction. The instructional methods will involve applications of concepts being taught through classroom and laboratory instruction and supervised agricultural experience. Note: This course builds on knowledge and skills developed in Agricultural Systems and Technology 1.*

### **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**

Provide preventive maintenance in the care and operation of internal combustion engines.

### **Standard 5**

Provide preventive maintenance and repair in the care and operation of power units and implements.

### **Standard 6**

Safely operate basic power units and equipment.

### **Standard 7**

Plan and construct with concrete.

### **Standard 8**

Plan and install basic electrical wiring systems.

### **Standard 9**

Fabricate with metal

