

Crandall ISD has many great courses in the Agriculture, Food & Natural Resources career cluster. We have designed a program of study that will allow you to complete three or four years of coursework preparing you for a great career in Agriculture, Food & Natural Resources.

**Business & Industry Endorsement– Animal Focus from Agriculture, Food and Natural Resources Cluster**

*Principles of Agriculture, Food & Natural Resources*  
*Livestock Production*  
*Small Animal Management*  
*Wildlife, Fisheries & Ecology Management*  
*Veterinary Medical Applications or Advanced Animal Science*

Possible Careers: Geneticist, Wildlife Rehabilitator, Renewable Energy Engineer, Agriculture Educator, Turf Grass Manager, Agriculture Product Sales, Entomologist

**Business & Industry Endorsement– Ag. Science Mechanics Focus from Agriculture, Food and Natural Resources Cluster**

*Principles of Agriculture, Food & Natural Resources*  
*Agricultural Mechanics and Metal Technologies*  
*Agricultural Facilities Design & Fabrication I & II*  
*Practicum in Ag., Food & Natural Resources*  
**Other Electives:**  
*Equine Science*  
*Professional Standards in Agribusiness*

Possible Careers: Metal Building Fabricator, Plumber, Electrician, Commodity Transporter, Land Surveyor



Crandall High School  
P. O. Box 520  
13385 FM 3039  
Crandall, TX 75114  
972.427.6150

[www.crandall-isd.net](http://www.crandall-isd.net)

Equal access to Career & Technical programs and activities is assured students in the Crandall Independent School District without regard to race, color, national origin, gender, or disability.



**CRANDALL HIGH SCHOOL**

# **AGRICULTURE, FOOD & NATURAL RESOURCES**



# WHAT COURSE SHOULD I TAKE?

Interested in animals or welding and building? Ever thought about a degree in the agricultural field? This might be the endorsement path for you. Discuss your career goals with your counselor.

## **Principles of Agriculture, Food, and Natural Resources**

1 Credit Grades 9 or first year AG

### **Prerequisites:** None

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings. The course examines Leadership Principles, Recordkeeping, SAEP's, Contest, Woodworking, Breeds of Livestock, and Oxy-acetylene metal cutting, and procedures.

## **Livestock Production**

1 Credit Grades 10-12

### **Prerequisites:** Principles of Agriculture, Food, and Natural Resources

Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

## **Small Animal Management**

**--May be offered alternate years (Contact Counselor for availability.)**

1/2 Credit Grades 10-12

### **Prerequisites:** Principles of Agriculture, Food, and Natural Resources

Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

## **Equine Science**

**--May be offered alternate years (Contact Counselor for availability.)**

1/2 Credit Grades 10-12

### **Prerequisites:** Principles of Agriculture, Food, and Natural Resources

Suggested animals which may be included in the

course of study include, but are not limited to, horses, donkeys, and mules.

## **Veterinary Medical Applications**

1 Credit Grades 10-12

**Prerequisites:** Principles of Agriculture, Food, and Natural Resources, Biology or Chemistry, and either Equine Science, Small Animal Management or Livestock Production. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

## **Wildlife, Fisheries, and Ecology Management**

1/2 - Credit Grades 9-12

### **Prerequisites:** Principles of Agriculture, Food, and Natural Resources

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish, and aqua-crops and their ecological needs as related to current agricultural practices.

## **Professional Standards in Agribusiness**

1 Credit Grades 10-12

### **Prerequisites:** Principles of Agriculture, Food, and Natural Resources

To be prepared for careers in agribusiness systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness.

## **Agricultural Mechanics and Metal Technologies**

1/2 - 1 Credit Grades 10-12

### **Prerequisites:** Principles of Agriculture, Food, and Natural Resources

This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their

knowledge and skills in a variety of settings.

## **Agricultural Facilities Design and Fabrication I & II**

1 Credit Grades 11-12

### **Prerequisite:** Principles of Agriculture, Food, and Natural Resources

To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

## **Practicum in Ag., Food & Natural Resources**

1 - 2 Credits Grades 11-12

### **Prerequisite:** Agricultural Mechanics and Metal Technologies

To be prepared for careers in agricultural power, structural, and technical systems, students should attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students should have opportunities to learn, reinforce, apply, and transfer their knowledge and technical skills in a variety of settings. This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery.

## **Career Preparation I & II**

2 - 3 Credits per year Grades 11-12

### **Prerequisites:** Must be a junior or senior who passed all classes the previous semester.

This course is a career and technical course in which students attend one class period and work at least two hours per day to receive two state credits. This course is designed to prepare students for paid employment in vocational occupations. Employability skills as well as specific information for the students' training stations are covered. The students extend their learning experiences on the job. The training stations must be approved and are supervised by the teacher/coordinator.

## **Student Organization:**

### **FFA**

"Future Farmers of America" was founded by a group of young farmers back in 1928. Their mission was to prepare future generations for the challenges of feeding a growing population. They taught us that agriculture is more than planting and harvesting-- it's a science, it's a business and it's an art.

**FFA continues to help the next generation rise up to meet those challenges by helping its members to develop their own unique talents and explore their interests in a broad range of career pathways.**