Agriculture & Food

Grow your talents

The Animal Science and Agricultural Technology & Mechanical Systems programs of study introduce students to the science, technology, and real-world applications involved in working with animals and agricultural systems. From studying animal biology, wildlife, and veterinary practices to exploring the engineering and mechanical aspects of farming equipment, structures, and conservation, students gain hands-on experience in both laboratory and field settings.

These programs prepare students for careers in diagnosing animal health, maintaining agricultural machinery, and addressing challenges in food and environmental sustainability.

PROGRAMS OF STUDY	INTRODUCTION COURSE	CONCENTRATION COURSE	CONCENTRATION COURSE	ADVANCED COURSE
Animal Science	Principles of Agriculture, Food, and Natural Resources	Small Animal Management Equine Science	Livestock Production	Advanced Animal Science
Agricultural Technology and Mechanical System	Principles of Agriculture, Food, and Natural Resources	Agriculture Mechanics and Metal Technologies	Agricultural Structures Design and Fabrications Agricultural Power Systems/Lab	Agricultural Equipment Design and Fabrication Practicum in Agriculture, Food, and Natural Resources

Industry-Based Certifications

- *Certified Veterinary Assistant, Level 1*
- *Elanco Veterinary Medical Applications Certification*
- *Equine Management & Evaluation Certification*
- *AWS D9.1 Sheet Metal Welding*
- *OSHA General 30**

Exploration Activities

- **Join the Texas FFA**
- **Get real-world, hands-on experience with daily farm operations.**

Work-based Learning

- **Compete in an Agri-Science Fair 4H**
- **Volunteer at a local farm or veterinary office**
- **Participate in an FFA-supervised agriculture experience (SAE)**
- **Earn a welding certification**
- **Intern at a farm products or machinery plant**