



Agriculture, Food and Natural Resources

Career Pathways: Animal Science Pathway

The Animal Science pathway is diverse and the program offers flexibility for students to explore both basic and applied aspects of animal biology. Courses such as Principles of Agriculture, Food, and Natural Resources: Animal Science Focus, Small Animal Management, Livestock Production and Management, and Veterinary Medical Applications cover relevant topics throughout the curriculum.

Students are prepared to pursue secondary education or careers in a variety of animal-related fields including:

- Veterinary Assistants
- Wildlife Conservation
- Farm Management
- Working with businesses, institutions, government agencies, private foundations
- Biotechnology
- Dairy Production and Management
- Animal Feed Industry
- Biomedical Research
- Teaching/Education

Career Pathways: Mechanical Pathway

The Ag Mechanics pathway is intended for students that have a genuine interest in welding, and metal fabrication as well as construction. In today's job market, industries are searching more and more for employees that have strong technical skills and industry experience to support these skills. Our Ag Mechanics pathways help to prepare and develop our students for these types of careers in both the Agriculture Mechanics as well as Manufacturing industries. Through Red Oak ISD's partnership with TSTC, dual credit opportunities are available for students that are interested in a career in welding as well. No matter what the career choice, or pathway the student chooses, our Ag Mechanic courses will provide in-depth instruction and hands-on learning experiences, which include shop projects that are sure to both engage the student and prepare them for life after high school. Opportunities to exhibit and present their work around the district and the State of Texas in various competitions provides another tier for students to be able to expand their knowledge not only in the shop, but in public speaking, critical thinking, and public relations as well. The following courses are available to students that wish to pursue the Ag Mechanics / Welding pathway:

- Principles of Agriculture: Food & Natural Resources with Ag Mechanics Focus
- Introduction to Welding
- Ag Equipment Design and Fabrication
- Ag Structures Design and Fabrication
- DC Welding I through TSTC North Texas
- DC Welding II through TSTC North Texas

Red Oak FFA Student Organization

- Chapter, District, Area, and State Officer Opportunities
- Positive Leadership and Career Development opportunities
- Livestock Competitions
- Agricultural Mechanic Competitions
- Scholarships
- Texas FFA State Convention
- Community Service Opportunities
- Certified Veterinary Assistant Certifications



“FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through Agricultural Education.”

FFA Mission Statement