

# Jeff Felty

Assistant Professor of Instruction

Department of Agriculture

Texas State University

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## Education

M.S. **Texas A&M University- San Antonio, TX**

Educational Leadership, August 2010

B.S. **Texas A&M University- Kingsville, TX**

Bachelor of Science in Industrial Technology, December 1998

Minor in Business Administration, December 1998

## Professional Certification

### Texas Teaching Certificates

Secondary Industrial Technology Grades (6-12)	1999
Principal Grades (EC-12)	2011
Superintendent Grades (EC-12)	2014
Agriculture, Food & Natural Resources Grades (6-12)	2019

### Curriculum for Agricultural Science Education (CASE) Certifications

Small Gas Engines (2025)

## **Lincoln Electric**

NC3 4 Process Welding Train the Trainer

### **Teaching Experience at Texas State University**

Course Number	Number of Students	Number of Credits	Total Hours Earned
AG 2373	79	3	237
AG 2374	30	3	90
AG 3310	52	3	156
AG 3355	25	3	75
AG 3375	10	3	30
AG 4113	3	1	3
AG 4343	15	3	45
AG 4355	10	3	30
AG 4361	46	3	138
Total Numbers	270		804

#### **AG 2373 – Introduction to Agricultural Engineering**

Course Description: An introductory course designed to acquaint students with a wide range of concepts, principles and applied technologies in agricultural engineering. A problem-solving course.

#### **AG 2374 – MTL Fab Metal Tech**

Course Description: This course covers the principles and practices of applied metallurgy and welding. Emphasis is given to the management of the technologies and techniques associated with oxyfuel cutting, shielded metal arc welding (SMAW), Gas Metal Arc Welding (GMAW), and Plasma Arc Cutting (PAC).

#### **AG 3310 – Agriculture Power and Machinery Technology**

Course Description: This course covers the principles of 2 stroke and 4-stroke cycle engines, ignition, and combustion types including injection systems. Components including power and power transmissions, and hydraulic systems will also be addressed.

### **AG 3353 – Ag Structures**

Course Description: This course introduces principles and practices associated with structural components, selection, construction materials, heat and moisture control, and the environmental issues of waste management systems; a problem solving course.

### **AG 3375 – Management Ag Machinery Equipment**

Course Description: This course addresses the optimization of the equipment phases of agricultural production and processing. Emphasis will be placed on management and decision-making principles concerned with the efficient selection, operation, repair, maintenance, and replacement of machinery and equipment.

### **AG 4113 – Summer Agricultural Education**

Course Description: This course provides students with field experience in summer agricultural education programming in secondary school settings. Students will receive individualized instruction during supervised visits while they are engaged in their field experience. The course includes program planning and educating diverse student learning populations

### **AG 4343 – Organization and Management of Lab Programs**

Course Description: This course examines instructional programs involving laboratory equipment and facilities. Curriculum, teaching methods, equipment and facility management practices including various aspects of safety, tool management, inventory and security are emphasized along with facilities layout planning.

### **AG 4355 – Land Management**

Course Description: This course focuses on engineering practices used in surveying including differential profile leveling and construction surveys. Topics include the use of dumpy levels, transits, total stations, and Global Positioning Systems. This course introduces students to the fundamental components of small unmanned aerial systems (sUAS), sensors and platforms, UAS operational concepts, the principles of UAS data collection, the legal framework within which UAS should be operated and applied, and data processing software in agricultural settings.

## **AG 4361 – Agriculture Electric and Mechanical Systems**

Course Description: Electrical fundamentals applied to agricultural production and processing. Circuits, power, energy, wiring design, and motor fundamentals; selection, installation and operational characteristics. Sensors and control devices including switches, relays, timers, and circuit breakers will be studied

## **Professional Development Teaching Experience**

Trailer Wiring and DOT Standards (2024)	8hrs
Show Paperwork and Showmanship for Major Shows (2025)	8hrs
Bumper Pull Trailer Building Class with Special Features (2025)	40hrs
SketchUp Drafting for Show Projects and CNC Plasma (2025)	8hrs
Trailer Wiring and DOT Standards (2025)	8hrs

## **Professional Service**

Ag Mechanics Projects Advisor for Students	(2016-Present)
Texas State Ag Mechanics Association Advisor	(2024-Present)
Gaudalupe County Ag Mech Show Judge	(2026)
West Hardin Trailer Build Off Judge	(2025)
National FFA CDE Contest Volunteer	(2025)
San Antonio Livestock Exposition Build Off Judge	(2025)
Ag Science Meat and Greet Social Chair	(2025)
Texas State Invitational AAE Coordinator	(2025)
Oklahoma Youth Expo Judge	(2025)
Texas High School Welding Series GMAW event Co-Coordinator	(2025)
Texas High School Welding Series SMAW event Co-Coordinator	(2024)
Helotes 4-H Ag Mechanics Project Leader	(2016-2019)

## **Community Service**

Helotes Fire Department	(2001-Present)
Helotes Economic Development Corporation	(2021-Present)
Helotes Ag Booster Treasurer	(2020-2022)
San Antonio Livestock Exposition	Lifetime Member
Operation Comfort Memorial Day Car Show	(2010-2023)