

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)

Teaching Experience at Texas State University

Course Number	Number of Students	Number of Credits	Total Hours Earned
AG 2373	39	3	117
AG 2374	30	3	90
AG 3310	22	3	66
AG 3375	10	3	30
AG 4113	3	1	3
AG 4343	15	3	45
AG 4355	10	3	30
AG 4361	19	3	45
Total Numbers	148	28	426

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 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

Professional Service

Ag Mechanics Projects Advisor for Students	(2016-Present)
Texas State Ag Mechanics Association Advisor	(2024-Present)
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)