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	57	3	171
AG 3310	52	3	156
AG 3355	25	3	75
AG 3375	10	3	30
AG 4113	12	1	12
AG 4343	32	3	96
AG 4355	10	3	30
AG 4361	46	3	138
AG 4681	3	6	18
AG 5343	2	3	6
Total Numbers	315		969

AG 2373 – Introduction to Agricultural Engineering **Fall 2024,2025,2026 Spring 2025**

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 **Spring 2025,2026**

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 **Fall 2024,2025**

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 **Fall 2025, 2026**

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 **Spring 2025**

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 **Summer 2025,2026**

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 **Spring 2025,2026**

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 **Spring 2025**

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 **Fall 2024,2025**

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.

AG 4681 – Student Teaching in Agriculture, Food, and Natural Resources 6-12 Spring 2026

Course Description: This course allows students to apply knowledge and skills learned during the teacher preparation program while engaging in clinical practice with experienced Agricultural Education mentor teachers in school settings with university instruction and supervision. Students engage in all three components of the total agricultural education program including classroom instruction, FFA supervision, and Supervised Agricultural Experience (SAE) engagement. Students are also engaged in activities that an Agricultural Education teacher is responsible for including professional development and teacher in-service. This culmination experience is required for Texas teacher certification.

AG 5343 – Organization and Management of Lab Programs **Spring 2026**

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.

Professional Development Teaching Experience

Ag Mech Academy with NC3 Welding (2026)	40hrs
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
Trailer Wiring and DOT Standards (2024)	8hrs

Professional Service

Ag Mechanics Projects Advisor for Students	(2016-Present)
Texas State Ag Mechanics Association Advisor	(2024-Present)
Lon Shell Ag Mech Show at Texas State Show Superintendent	(2026)
Hillsboro FFA Ag Mech Show Judge	(2026)
Blinn Ag Mech Show Judge	(2026)
Texas A&M University- Kingsville Ag Mech Show Judge	(2026)
San Antonio Livestock Exposition Ag Mech Show Judge	(2026)
Rodeo Austin Ag Mech Show Off Judge	(2026)
Houston Rodeo Ag Mech Show Judge	(2026)
Comal County Ag Mech Show Judge	(2026)
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 AAE Double Header Coordinator	(2025)
Oklahoma Youth Expo Judge	(2025,2026)
Texas High School Welding Series GMAW event Co-Coordinator	(2025,2026)
Texas High School Welding Series SMAW event Co-Coordinator	(2024,2025,2026)
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)