Rev for Fall, 2023

CFISD Project-based Research in Agriculture, Food, and Natural Resources Focused on Advanced Ag Mechanics

Scope and Sequence

Course Description:

This course is a supervised research study/project-based class where students will apply knowledge and skills from previous ag mechanics courses in a related advanced/specialized field of study. Students are required to submit a formal project plan within two weeks after enrollment in the course. The plan should specify the additional concepts and/or technologies that will be studied and utilized, along with an overview of the culminating project.

- 1 credit, Grades 11-12
- Required prerequisite: Ag Mechanics
- Lab supplies or fee may be required.

TEKS

Program of Study: Applied Ag Engineering

Cluster: Agriculture, Food, and Natural Resources

Endorsement: Business & Industry

- Meets advanced course requirement (Y/N): Y
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): N

Industry Certification/Credentials: OSHA 30-Houst Card & American Welding Society D9.1 and D1.1

Instructional Units	Pacing
1st Semester Personal & Occupational Health & Safety Project Brainstorming Project Planning Cost Analysis	1st Grading Period
Project Building Project Documentation Building Project Portfolio	2nd Grading Period
2nd Semester Project Completion Project Presentation Project Revisions and Improvements Portfolio Presentation	3rd Grading Period
Project Marketing Project Reflections Projected Cost vs Actual Cost Project Comparison to Real World Marking and Application	4th Grading Period

Primary Instructional Materials: varies, based on project