

CTE Course Syllabus Template

Course Title: Practicum in Ag Mechanics

School Year: 2025-2026

Instructor: Russell Duncum

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Phone: 512-414-3359 ext 72471

Teacher Support Hours: 8:00-9:15 am/ 3:30-4:15 pm

Course Description

Welcome to Ag mechanics! This course is designed to provide you with the foundational knowledge and practical skills necessary for a successful career in the welding field. Throughout the semester, we will explore theoretical concepts and apply them through hands-on projects, simulations, and real-world scenarios. The goal is to build a strong understanding of industry standards, safety protocols, and professional work habits.

Prerequisites

Ag Equipment design

Agmech/metal tech

Ag structures

Course Objectives & Learning Outcomes

Upon successful completion of this course, students will be able to:

- Demonstrate mastery of core technical skills as outlined by [TEKS].
- Apply problem-solving and critical thinking skills to diagnose and resolve industry-related issues.
- Utilize professional-grade tools, equipment, and software safely and effectively.
- Collaborate with peers in a professional, team-oriented environment.
- Articulate the ethical and professional responsibilities expected within the welding profession.
- Develop a portfolio or capstone project that showcases technical skills and knowledge.

Course Contents & Schedule

This course will cover the following units from the Year at a Glance (YAG):

- **Unit 1:** Safety
- **Unit 2:** Plumb Perfect

- **Unit 3:** Blueprint and Design
- Unit 4:** Project Design and fabrication

What to Expect

In this course, you will engage in a combination of classroom instruction, hands-on labs, and collaborative projects. Expect to be challenged with real-world problems and to develop critical skills that are directly transferable to the workplace. A major focus of this course is the application of knowledge, so active participation and a willingness to learn by doing are essential.

Rules for the Course

1. "Respect your classmates, instructor, and all school property."
2. "Follow all lab safety rules at all times."
3. "Maintain a clean and organized workspace."

Grading Structure & Policies

Your final grade will be based on the following weighted categories:

- **Projects/Labs:** Hands-on projects and lab work will be a major component.
- **Daily Assignments/Quizzes:** Regular assignments and short quizzes will check for understanding.
- **Exams:** - Midterm and final exams will assess knowledge of key concepts.
- **Professionalism/Participation:** - This includes attendance, punctuality, active participation, and adherence to lab safety rules and professional conduct.

Required Permission Slips

FFA CTSO permission slip

Field trip permission form

Non-Discrimination Statement

Austin ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: the Title IX Coordinator at julianne.gula@austinisd.org or (512) 414-1700, and/or

the Section 504 Coordinator at kelly.spahn@austinisd.org or (512) 414-1700.

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Student & Guardian Acknowledgement

I have read and understand the syllabus for [Course Name] and agree to abide by the policies and procedures outlined.

Student Signature: _____ Date: _____

Guardian Signature: _____ Date: _____