



## Course Overview

### Course Description

This course will cover some of the mechanical skills needed in the agricultural industry. Units taught include safety, tool identification and maintenance, computer applications in mechanics, arc welding, MIG welding, plumbing, electricity, electric motors, woodworking, working drawings, surveying, concrete, small gas engines, tractor operation, and safety. Students will be required to maintain a Supervised Agricultural Experience (SAE). Students will participate in Future Farmers of America (FFA), where they will develop skills for leadership and career success. FFA offers leadership and community service opportunities to assist with entrance into college. At Chandler High School, 11th and 12th grade students in this course may be eligible to participate in the IB Career-related Programme (IBCP).

### AP/IB/Dual Enrollment

May be offered for Dual Credit/IBCP

### Prerequisite/Fee(s)

30

### Course Materials

-class binder or folder  
-writing materials- pencil or pen

### Course Attire: Students are responsible for the following

-closed toed shoes and pants

### Adopted Resource(s)

Agricultural Mechanics: Fundamentals and Applications.

*\*An asterisk indicates a resource containing sexually explicit materials per legislative definitions. CUSD has determined that all the above resources are of exceptional educational value.*

## Site and Faculty Information

### School name and address:

Basha High School, 5990 S Val Vista Dr, Chandler, AZ 85249

### Building principal:

Marques Reischl  
reischl.marques@cusd80.com

### Teacher:

Kevin Hartfield BS, MS  
hartfield.kevin@cusd80.com

**Office hours:** By appointment

## Course Access

This course is taught in-person at Basha High School. Students will have access to the curriculum and instruction in the classroom. Google Classroom is the primary location for students to access material when absent from classes taught in person.

---

## Equipment Usage Agreement:

Students will receive training for the proper use and care of all equipment. I understand that while my student uses school equipment, they are responsible for its care. If school equipment is damaged, lost, stolen, or destroyed under my student's care, I further understand that my student and I will be responsible for the replacement or cost of repair of the damaged equipment.

## CTE Program Responsibilities:

### Career & Technical Student Organization (CTSO)

Career & Technical Student Organizations (CTSOs) are co-curricular organizations that help enrich applied academics, communications, and teamwork. Students in CTE programs can participate in CTSO leadership activities and competitive events.

This program is aligned with the following CTSO: FFA.

### Industry Credentials

CTE programs allow each student to earn an industry certification aligned to their CTE program area. This CTE program will offer the following industry credential(s) for all students by program completion:

This is a beginning-level course, which will lead to an industry credential(s) in the advanced course(s) within this program

### Technical Skills Assessment (TSA)

Technical Skills Assessments (TSA) are an Arizona Department of Education high-stakes state assessment designed for each program area. The TSA is to certify and document student attainment of industry-validated knowledge and skills through online testing. The TSA is taken after the CTE program (year 2 or 3) of each program.

### Non-Discrimination Clause/ Aviso de no discriminaci3n

The non-discrimination clause can be accessed using the link or QR code ([www.cusd80.com/Page/983](http://www.cusd80.com/Page/983))



## Help

### Academic Support

- Contact the teacher to schedule an appointment during office hours
- [Ed Tech](http://www.cusd80.com/Page/45109) support for students, parents/guardians, and community link ([cusd80.com/Page/45109](http://www.cusd80.com/Page/45109))

### Mental Health Support

- CUSD mental health support [cusd80.com/Domain/10528](http://www.cusd80.com/Domain/10528) or 480-573-8808 (talk or text)
- Suicide & Crisis Lifeline: 9-8-8 hotline
- 24-hour Crisis Line Talk: 602-222-9444, Text: 741-741

## Student Conduct, Success, and Responsibilities

### Student Handbook

Students must follow the policies and procedures in the [Student Handbook](http://www.cusd80.com/Page/533). Copies of the handbook can be found at <https://www.cusd80.com/Page/533>, and printed copies will be provided upon request.

### Student Responsibilities

Shop laboratory procedures:

All laboratory procedures including personal conduct, safety, and laboratory use will be defined in detail during the beginning unit of this course. All students will be required to pass a safety exam and have a signed agreement on file in order to operate equipment in the shop.

---

## Management Plan

1st infraction - Verbal warning

2nd infraction - Teacher/student conference after class

3rd infraction - Loss of employability points, and parent/guardian contact

4th infraction - Loss of employability points, parent/guardian contact and a written referral

\*\*Severe Clause = Severe behavioral concerns may result in immediate removal from class, and subject to administrative discipline.

### Late work

Assignments turned in late, but not due to absence(s) will be accepted, but at half points. All work must be submitted to the appropriate basket to be accepted.

## Assessments and Assignments

Students will complete assessments during each unit of study to assess their understanding. Students will complete the CUSD Common Final at the end of the first and second semesters. The Common Final will count for 20% of the student's final semester grade in grades 9-12 and 10% in grades 7-8 (some exceptions may apply at the Junior High level). Common finals will be in ELA, Math, Science, Social Science, and World Language.

Final exams will be given during the CUSD Jr High/High School Early Dismissal days in December and May, as identified on the [District Calendar](#).

If students are requested to participate in a survey, the survey questions will be provided to parents/guardians seven days before student contact.

## Grading

### Grade Percentage

A	B	C	D	F
90% - 100%	80% - 89%	70% - 79%	60% - 69%	<60%

### Quarter grades

This course consists of three components: Agriculture Instruction/Curriculum, Supervised Agriculture Experience, and the FFA.

1. Agriculture Instruction/Curriculum: Grades are not given, they are earned. Grades will be determined by the degree to which objectives are met. Success is achieved through timeliness, neatness, and original work. Students will keep a warm-up log daily that will be counted for a grade and participation points in the shop/lab will be given at the instructor's discretion.

2. Supervised Agriculture Experience (SAE) Project: Students will be expected to design a SAE plan in the 1st quarter and implement it by the 2nd quarter. Students will keep an electronic record of this project and are expected to take photos of their project throughout the school year. It will be the responsibility of the student to keep accurate records throughout the school year and submit these records on time to the instructor. Dates will be provided for record submission in advance.

3. FFA Leadership Grade: A major aspect to this course is the development of leadership skills, speaking abilities, teamwork and other various skills that will play a major role in every individual's career choice. Students are required to participate in the local FFA activities and have the opportunity to participate in the district, state and national FFA activities. This will count towards 20% of each semester's grade. Please refer to the attached sheet for dates of the required events. Other school and community activities can count toward this grade but at a minimal percentage.

### Semester grades

Semester grades are calculated using 40/40/20: Each quarter accounts for 40% of the semester grade and the final exam accounts for the remaining 20%.

## Units of study

---

## **Units for AGS110 Agriculture Engineering**

*\*An asterisk will indicate a unit of study containing sexually explicit materials per legislative definitions.*

PPE

Fire Safety

Shop Safety

Hand Tools

Power Tools

Wood Equipment and Construction

Welding

Metal Design and Fabrication

Project Planning

Project Construction

Signature Page - Please return this page to your student's teacher.



# Chandler Unified School District

AGS110 Agriculture Engineering  
SY 2024-25



**Site:** Basha High School  
**Building Principal:** Marques Reischl, reischl.marques@cusd80.com  
**Teacher:** Kevin Hartfield, hartfield.kevin@cusd80.com

## Parent/Guardian

### Acknowledgment

Parents/Guardians must specify their approval by selecting "Acknowledge" or "Potential Conflict" for their student's involvement in the units of study. Please note students cannot decline participation in standards-based units. The teacher will reach out regarding options if "Potential Conflict" is selected.

Unit of study	Acknowledge	Potential Conflict
PPE	<input type="checkbox"/>	<input type="checkbox"/>
Fire Safety	<input type="checkbox"/>	<input type="checkbox"/>
Shop Safety	<input type="checkbox"/>	<input type="checkbox"/>
Hand Tools	<input type="checkbox"/>	<input type="checkbox"/>
Power Tools	<input type="checkbox"/>	<input type="checkbox"/>
Wood Equipment and Construction	<input type="checkbox"/>	<input type="checkbox"/>
Welding	<input type="checkbox"/>	<input type="checkbox"/>
Metal Design and Fabrication	<input type="checkbox"/>	<input type="checkbox"/>
Project Planning	<input type="checkbox"/>	<input type="checkbox"/>
Project Construction	<input type="checkbox"/>	<input type="checkbox"/>

*\*An asterisk will indicate a unit of study containing sexually explicit materials per legislative definitions.*

**By signing and returning this form,** the parent/guardian acknowledges they have reviewed the resources and units of the study included in the syllabus.

- As the parent/guardian, I understand I may contact the teacher with questions on resources, content, or units of study at any time during the school year and view my student's grades in Infinite Campus.

Student name (printed)

Student signature

Parent/Guardian name (printed)

Parent Signature

Date

**Please return this page to your student's teacher.**