Clovis Unified Agriculture Program & Facility

Clovis Unified has one of the top Agriculture Education programs in the State of California, along with the best high school agriculture facility. The McFarlane-Coffman Agriculture Center was established in August of 2000 to serve students from throughout Clovis Unified School District. Currently, the twenty-two acre facility consists of two traditional classrooms, two science laboratory classrooms, three engineering classrooms, and a biotechnology facility. The Farm Laboratory includes animal units for beef, sheep, swine, goats and rabbits. Four greenhouses, an orchard, vineyard and row crop area.

Clovis East High School

2940 Leonard
Clovis, CA 93619
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Clovis FFA Webpage

https://sites.google.com/site/clovisffaca

Clovis East Agriculture Staff	
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Plant Science CTE Pathway

Clovis East High School

Agriculture Department

The plant science pathway is part of the Agriculture Department at Clovis East High School. All CUSD high school students are welcome to enroll in our Agriculture Department courses.

Agriculture Education is a Comprehensive Program offering students classroom laboratory experience, leadership development through involvement in the National FFA Organization, and experiential learning though Supervised Agriculture Education projects.

2017-2018

Why is Plant Science Important?

Plants provide food to people and animals, regulate the water cycle, create oxygen and provide a habitat for other species. Without plants, life on Earth would not be sustainable for most species, including humans.

Not only do you see plants everywhere in the real world, but they are also all over the scientific world. Farmers have been observing plants for thousands of years, they look for plants that grow quickly and have higher yields.

There are many careers especially in California that are in the plant science field.

Careers in Plant Science

Agriculture Extension Agent	Forester	Plant Science Teacher
Agronomist	Groundskeeper	Plant Scientist
Arborist	Golf Course Manager	Research Assistant
Botanist	Horticulture Teacher	Retail Garden Center Manager
Ecologist	Landscape Architect	Soil Scientist
Environmental Scientist	Naturalist	USDA Plant/Crop Inspector
Farm Manager	Plant Geneticist	Zoo Horticulturist
Floral Designer	Plant Health Care Specialist	AND MANY MORE!

Example Pathway Course Sequence

Grade	Introductory Course	Concentrator Course	Capstone Course
9th	Art History of Floral Design		
10th		Botany or Ornamental Horticulture	
11th			Plant Production Management or Advanced Floral Design
12th			Plant Production Management or Advanced Floral Design

Plant Science CTE Pathway Courses

Art History of Floral Design (P)

Grades: 9-12
Duration: Year Course
Prerequisite: None

This course is designed to allow students to apply an artistic approach to floral design. This class involves the fundamentals of floral design theory, techniques, and skills currently practiced in the floral design industry, including wedding, sympathy, party, holiday and themed floral designs. Subjects will include applied art principles, cut flower care and handling practices, proper and safe use of florist tools and materials, pricing, and use of technology in the industry.

Botany (P)

Grades: 10-12
Duration: Year Course
Prerequisite: Biology & Sustainable Ag (P) (Biology)

This course covers the scientific study of plants and their relationship to the environment. In this course students investigate the growth, reproduction, anatomy, morphology, physiology, biochemistry, taxonomy, genetics, and ecology of plants. Laboratory and outdoor experiences complement classroom activities.

Ornamental Horticulture

Grades: 10-12
Duration: Year Course
Prerequisite: None

This course introduces students to Horticulture Science and the advanced development of plant production, maintenance, care, design and marketing of all ornamental plants including houseplants, nursery stock and flowers. Turf, landscape maintenance and design and installation are also introduced.

Plant Production Management

Grades: 11 and 12
Duration: Year Course
Prerequisite: Biology & Sustainable Ag (P) (Biology), Chemistry and Agriscience (P) (Chemistry)

This course introduces students to agricultural methods and practices as well as biological principles of plant science. Topics will include Plant Biology, Classification, Water, Culturing Methods, Propagation, Floriculture, Landscape Design, and Agricultural impacts on business.

Advanced Floral Design

Grades: 11 and 12
Duration: Year Course
Prerequisite: Art History of Floral Design

This course will build on the introductory course, Art History of Floral Design with an increased focus on the art of design, handling cut flowers, the mechanics of floral design and the retail-end of the floral industry. Students will learn how to do displays, advertising, marketing, pricing and sales. Students will add to their skill level with wedding, sympathy, and event floral work

Plant Science Related Enrichment Activities

The Clovis East Agriculture Program offers many opportunities for students to enrich their Plant Science Experience.

- FFA Competitive Teams in Nursery Landscape, Vine Pruning and Judging and Natural Resources
- Supervised Agriculture Experience Projects which include floral design, growing horticulture crops and row crops, and vineyard and orchard enterprise projects.
- Class Field Trips, Lab Activities, and Guest Speakers also enhance the learning experience.