

## 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 acres of irrigated pasture houses cattle, sheep, and horse projects.



### Clovis East High School

2940 Leonard  
Clovis, CA 93619  
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### Clovis FFA Webpage

<https://www.clovis-ffa.com/>

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# Animal Science CTE Pathway



## Clovis East High School

### Agriculture Department

The animal 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 through Supervised Agriculture Education projects.

## Why is Animal Science Important?

Humans rely on animals for food, fiber, labor and companionship. So it makes sense that we need animal scientists to keep these animals healthy and productive.

Animal scientists help put food on our tables. Animal scientists work with farmers to improve animal breeding, diseases and nutrition.

Some animal scientists study animal products after harvest. They check meat quality or screen milk for pathogens. Advances in food safety keep humans healthy and increase the world's supply of nutritious food.

Animal scientists also keep us clothed. In cold climates, people rely on wool to stay warm.

Animal scientists can protect human health. It is important for scientists to study how diseases spread between humans and animals. Scientists can also use animals as models for humans.

Animal scientists also keep our pets healthy. They tackle issues like pet obesity and breeding. And zoos rely on animal scientists to establish breeding programs, nutrition programs and help preserve exotic wildlife.



## Careers in Animal Science

Agriculture Extension Agent	Artificial Insemination Technician	National Animal Organization Associate
Animal Caretaker	Cowboy	Reproductive Physiologist
Animal Behaviorist	Ferrier	Veterinarian
Animal Food Processor	Horse Stable Manager	Veterinary Assistant
Animal Nutritionist	Livestock Herd Manager	Veterinary Technician
Animal Product Salesperson	Livestock Hoof Trimmer	Zoo Animal Caretaker
Animal Research Scientist	Livestock Marketing Specialist	USDA Animal Inspector
Animal Science Teacher	Meat Scientist	AND MANY MORE!

## Animal Science CTE Pathway Courses



### CDE Animal Science (P)

**\*College Credit Available**

**Grades:** 10, 11, 12

**Duration:** Year Course

Spring Semester Dual Enrolled with Reedley College for AS1

**Prerequisite:** Successful completion of Algebra 1 and Biology 1AB or Biology and Sustainable Agriculture AB (P).

This course will provide the student with principles in animal Science focusing on areas of livestock (mammalian) production, anatomy, physiology, reproduction, nutrition, respiration, and genetics. This course is intended to successfully prepare those students who plan on majoring in Agricultural Sciences or Veterinary Science in college.

### ROP Veterinary Science AB (P)



**Grades:** 11-12

**Duration:** Year Course: 2 periods per day

**Prerequisite:** Biology AB (P) or Biology and Sustainable Ag (P)

This course provides students with the knowledge and skills needed for college level coursework in readiness for a career in veterinary medicine. Students study the effects of diseases on the animal anatomical system and the body's response. Teamwork, technology and integrated academics to understand the anatomy and physiology in health and disease are included to create a foundation for field experience in a Veterinarian's office during the second semester. This class involves significant reading and science activities. Work site placement available, but enrollment is limited.

### Example Pathway Course Sequence

Grade	Introductory Course	Concentrator Course	Capstone Course
9 <sup>th</sup>	Agriculture Science 1 or Biology and Sustainable Ag		
10 <sup>th</sup>		CDE Animal Science (Take once, 10 <sup>th</sup> or 11 <sup>th</sup> grade)	
11 <sup>th</sup>		CDE Animal Science	Equine Science
12 <sup>th</sup>			Veterinary Science ROP

## Animal Related Enrichment Activities

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

- FFA Competitive Teams in Livestock Evaluation, Meats Evaluation, and Veterinary Science.
- Supervised Agriculture Experience Projects which include raising and caring for animals.
- The Veterinary Science Class offers Community Classroom placement in an animal facility or vet clinic.
- Class Field Trips, Lab Activities, and Guest Speakers also enhance the learning experience.

