



SECTOR SPOTLIGHT: AGRICULTURE AND NATURAL RESOURCES

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STUDENT QUESTIONS & ANSWERS

Why did you pick this pathway?

I picked this pathway because I always had a deep appreciation for the world of agriculture, especially considering I was born and raised in the Central Valley. The FFA organization suprised me with the amount of personal development activities at my disposal, leading me to eagerly sign up for more courses within this pathway, eventually finding my home.

Favorite thing you learned in your pathway.

My favorite thing I've learned within this pathway is the skill of pinning insects.

Briefly describe your participation in experiences and activities related to your pathway.

Within my time in the Agriculture Pathway, I have held an officer position, helped put on chapter events, participated in various activities beyond the chapter level, attended leadership conferences, gained career technical skills, and raised livestock.

Favorite memory of being part of the pathway.

My favorite memory of being part of the pathway has been the privilege of interacting with many different students within the animal science and plant science pathways.

Advice to students intereted in your pathway.

Get involved! FFA has so much to offer students, from fun activities to opportunities that challenge you and help improve your public speaking skills. Enjoy your coursework, as there are many different branches of agriculture to explore!

Do your future goals include what you learned in your pathway?

Yes. I want to major in Ag Business and this is a passion I would've never discovered had I not discovered the Ag Pathway.

What are your plans after high school?

I plan to attend Cal Poly San Luis Obispo and major in Agricultural Business.

How has this pathway prepared you for the future?

This pathway has equipped me with pratical industry skills and various networking opportunities.



PATHWAYS AT A GLANCE

The Agriculture and Natural Resources sector offers students distinct areas of experience in the agriculture industry. Dinuba High School offers five pathways within the sector. Although these pathways are interconnected, each one emphasizes different skill areas.

The **Agriscience** pathway provides students with foundational knowledge in Agricultural Biology, a laboratory science emphasizing detailed biological principles in areas such as molecular and cellular aspects of living organisms, structure and function of agricultural plants and animals, genetics, physiology, plant and animal diversity, principles of classification, ecological relationships, and animal behavior.

The **Animal Science** pathway will equip students with principles and hands-on experience in Animal Sciences, focusing on mammalian production, anatomy, physiology, reproduction, nutrition, respiration, genetics, and veterinary skills, all integrated with Anatomy and Physiology studies.

The **Floral Design** pathway provide students with foundational knowledge in floral design, encompassing various aspects such as basic mechanics, composition requirements, diverse design forms, and the identification of flowers, foliage, and tools. Students will engage in creating and designing, as well as identifying, explaining, and evaluating a range of floral topics.

The **Ornamental Horticulture** pathway provides students with foundational knowledge of the horticulture industry. It covers a range of topics including propagation, nursery production, greenhouse management, soil testing, integrated pest management, entomology, and customer service.

The **Forestry and Natural Resources (Wildland Firefighting)** pathway is tailored to establish a foundation for students interested in pursuing a career in firefighting. The courses offer all the essential tools, skills, certifications, and knowledge necessary for becoming paid call firefighters, entering the fire academy, or working with the US Forest Service.





COLLEGE KNOWLEDGE

Careers in the Agriculture and Natural Resources sector are organized into seven pathways. At Dinuba High School, students can explore five of these: Agriscience, Animal Science, Ornamental Horticulture, Floral Design, and Forestry and Natural Resources. These pathways give students a strong foundation for pursuing careers in agriculture and provide hands-on learning experiences. Students can manage the on-campus floral shop, work in the school greenhouse, and participate in plant sales, gaining practical skills that prepare them for success in college programs and the agriculture industry.

Current labor market data for the San Joaquin Valley region, including Fresno, Tulare, and Kings Counties, show that agriculture remains a central driver of the regional economy. Farm jobs and related support services continue to account for a significant share of local employment, highlighting the ongoing importance of agriculture to the community. Top local programs include [Reedley College](#), [College of the Sequoias](#) and [Fresno State](#).

Use the QR codes below to explore the programs at each local college and university.



If you're interested in universities outside the local region, consider exploring these institutions:

- Cal Poly San Luis Obispo
- Chico State

- UC Davis
- Cal Poly Pomona



- **FEB. 5TH**
National History Day Showcase
DHS Library/Lecture Hall
- **FEB. 9TH**
NO SCHOOL/PRESIDENT'S DAY
- **FEB. 11TH**
Financial Aid Night
DHS Library
- **FEB. 13TH**
Emperor of the Month
- **FEB. 16TH**
NO SCHOOL/PRESIDENT'S DAY
- **FEB. 17TH**
CMA Mentor Breakfast
DHS Cafeteria
- **FEB. 21ST**
Saturday School
- **FEB. 19TH-20TH**
MED Academy 12th Grade College Trip
- **FEB. 27TH**
Academic Awards
DHS Student Union

EDUCATION LEVEL & RELATED OCCUPATIONS

Entry Level Careers (High School Diploma)

- Fruit & Vegetable Grower 🏠 \$28,230-\$37,280 ➡ Stable Demand
- Animal Caretaker 🏠 \$21,380-\$40,000 ➡ Stable Demand
- Animal Trainer 🏠 \$23,160-\$60,000 ➡ Stable Demand
- Miner (Underground) 🏠 \$48,050-\$80,000 ➡ Declining Demand
- Recycling Service Worker 🏠 \$30,000-\$50,000 ➡ Increasing Demand
- Oil & Gas Well Drilling Crew 🏠 \$50,000-\$99,500 ➡ Stable Demand
- Tree Harvester 🏠 \$40,000-\$70,000 ➡ Stable Demand
- Farmer 🏠 \$40,000-\$126,330 ➡ Stable Demand

Technical Level Careers (Certificate and/or Associate Degree)

- Production Horticulturist 🏠 \$30,000-\$88,000 ➡ Stable Demand
- Journey-Level Butcher 🏠 \$33,420-\$45,770 ➡ Stable Demand
- Forestry Technician 🏠 \$35,000-\$55,000 ➡ Stable Demand
- Arborist 🏠 \$40,180-\$64,210 ➡ Increasing Demand
- Horse Trainer 🏠 \$25,000-\$60,000 ➡ Stable Demand
- Forest Firefighter 🏠 \$35,000-\$89,000 ➡ Increasing Demand
- Veterinary Technician 🏠 \$35,000-\$50,000 ➡ Increasing Demand

Professional Level Careers (Bachelor's Degree)

- Agriculture Engineer 🏠 \$60,000-\$127,030 ➡ Increasing Demand
- Green House Supervisor 🏠 \$40,000-\$85,000 ➡ Stable Demand
- Food Inspector 🏠 \$45,000-\$75,000 ➡ Stable Demand
- Forestry Management 🏠 \$55,000-\$85,000 ⬆️ High Demand
- Veterinarian 🏠 \$70,000-\$165,600 ⬆️ High Demand
- Botanist 🏠 \$50,000-\$126,950 ➡ Stable Demand
- Aquaculturist 🏠 \$45,000-\$126,330 ➡ Increasing Demand



Career Cluster:

Agriculture, Food & Natural Resources

Jobs in this cluster work hard to make, process, share, and take care of things like food, clothes, wood, and nature. They also help plants and animals grow and develop.

College & Career Resources

College Majors:

- Ag Business
- Animal Science
- Food Science & Nutrition
- Forestry & Natural Resources
- Mining & Mineral Engineering
- Ornamental Horticulture
- Plant Science

College & Universities:

- [CSU Fresno](#)
 - [Ag Business](#)
 - [Food Science & Nutrition](#)
 - [Plant Science](#)
- [Reedley College](#)
 - [Agriculture](#)
 - [Agriculture Mechanics](#)
 - [Wildland Fire](#)
- [College of the Sequoias](#)
 - [Agriculture](#)

AGRICULTURE, FOOD & NATURAL RESOURCES

Agriculture is California's most important economic industry! California is often called the breadbasket of the world. For those who love nature, animals, or growing things, the Agriculture, Food & Natural Resources Sector may hold a great career for you!

At Dinuba High School you may study in a wide variety of classes in our 5 pathways: Forestry & Natural Resources- Wildland Firefighting, Agriscience, Animal Science, Ornamental Horticulture, and Floral Design.



ZOOM INTO CAREERS

CLICK ON VIDEOS TO LEARN MORE!

TED TALKS

Can we create the "perfect" farm? [CLICK HERE](#)
A guide to the energy of the Earth

epic! SCHOOL Sign-in to Clever & click on the book to read!