

ACHIEVE TEXAS

ALIEF ISD COUNSELORS: PROMOTING COLLEGE AND CAREER READINESS



The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fuel, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Sample Occupations:

- Food Scientist
- Environmental Engineer
- Horticulturist
- Animal Scientist
- Biochemist
- Veterinarian Assistant

7 Career Pathways within the cluster:

1. Food Products & Processing Systems
2. Plant Systems
3. Animal Systems
4. Power, Structural & Technical Systems
5. Natural Resource Systems
6. Environmental Service Systems
7. Agribusiness Systems



Graduates who know how to satisfy the diverse consumer needs and preferences in different cultures, and who have the language skills to communicate effectively, will have the best opportunities to be employed by the growing number of multinational businesses.

The courses that you are currently taking provide you with the required skills to demonstrate success in this career cluster. The core content courses build aptitude and ability in the areas of scientific and mathematical reasoning, with science taking the primary role in building this skill set. Possessing solid foundational knowledge and skills in the core academic areas: language arts, social studies, math and science supports performance in the many CTE elective courses that we offer in the district. Participation in CTE courses increase employment opportunities for those who provide and market an expanding array of food, forest, and veterinary medical consumer products to a growing world population.

KNOWLEDGE AND SKILLS

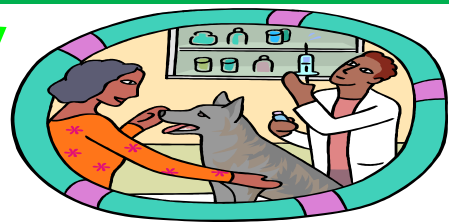
Alief ISD Agriculture, Food, Natural Resources and Floral Design Students





Top Paying Careers in Agriculture, Food and Natural Resources

<u>Occupation</u>	<u>Average Wage</u>
◆ Environmental Engineer	\$42/hour
◆ Conservation Scientist	\$29/hour
◆ Purchasing Agent/Buyer, Farm Products	\$31/hour
◆ Power Plant Operator	\$27/hour
◆ Zoologist and Wildlife Biologist	\$28/hour
◆ Gas Plant Operator	\$25/hour



Agricultural Q and A

1. What is the statewide net farm income?
2. How many acres of cropland are in Texas?
3. Of the 7 career pathways within the Agriculture, Food and Natural Resources cluster, which pathway has the most occupations?
4. What products in Texas were the states 11th most valuable exports?
5. In which of the core academic areas do you need the greatest level of performance to be demonstrate success in agriculture?

Principles of Agriculture, Food and Natural Resources Cluster

- ◆ Livestock Production
- ◆ Small Animal Management
- ◆ Veterinary Medical Applications
- ◆ Veterinary Medical Assistant
- ◆ Wildlife, Fisheries and Ecological Management
- ◆ Range and Ecology Management

Principles/Elements of Floral Design

- ◆ Landscape Design and Turf Grass Management
- ◆ Horticulture Science
- ◆ Advanced Animal Science
- ◆ Advance Plant and Social Science

ALIEF CTE HIGH SCHOOL COURSES

Answers: 1) \$6,295,953,00; 2) 38.66 million acres; 3) natural resource systems; 4) agricultural products; 5) Science