

# Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

## Food Science and Technology Statewide Program of Study



The Food Science and Technology program of study explores the occupations and educational opportunities associated with working with agricultural and food scientists in food, fiber, and animal research, production, and processing. This program of study may also include assisting with animal breeding, nutrition, and conducting tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects.

### Secondary Courses for High School Credit

#### Level 1

- Principles of Agriculture, Food, and Natural Resources

#### Level 2

- Food Technology and Safety/Lab

#### Level 3

- Food Processing/Lab

#### Level 4

- Practicum in Agriculture, Food, and Natural Resources

### Postsecondary Opportunities

#### Associates Degrees

- Food Science

#### Bachelor's Degrees

- Agricultural and Food Products Processing
- Food Science and Nutrition
- Food Science and Technology

#### Master's, Doctoral, and Professional Degrees

- Food Science and Technology

### Work-Based Learning and Expanded Learning Opportunities

#### Exploration Activities

- Tour a food products processing facility
- Participate in Texas FFA

#### Work Based Learning Activities

- Intern at a food products processing facility
- Participate in an FFA supervised agriculture experience

### Industry-Based Certifications

- Culinary Meat Selection & Cookery Certification
- Food Safety & Science Certification



### Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Agricultural and Food Science Technicians	\$34,382	236	11%
Supervisors of Production and Operating	\$62,171	5,094	9%
Inspectors, Testers, Sorters, Samplers, and Weighers	\$37,689	6,653	%%

Successful completion of the Food Science and Technology program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022