

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 occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.



Statewide Program of Study: *Environmental and Natural Resources*

The Environmental and Natural Resources program of study focuses on occupational and educational opportunities associated with the research, design, and engineering of plans for prevention and control of environmental hazards. This program of study includes conducting research for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population.

Secondary Courses for High School Credit

- Level 1** • Principles of Agriculture, Food, and Natural Resources
- Level 2** • Wildlife, Fisheries, and Ecology Management (CCHS)
- Level 3** • Range Ecology and Management (CCHS)
- Level 4** • Practicum in Agriculture, Food, and Natural Resources



Example Postsecondary Opportunities

Apprenticeships

- Water Treatment Plant Operator



Associate Degrees

- Environmental/Environmental Engineering Technology
- Water Quality and Wastewater Treatment Management and Recycling Technology

Bachelor's Degrees

- Environmental Engineering
- Environmental Health

Master's, Doctoral, and Professional Degrees

- Biology/Biological Sciences
- Ecology

Additional Stackable IBCs/License

- Pesticide Dealer License



Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities

- Intern in an environmental services office in local government to learn about sanitation and waste management
- Attend guest speaker session from a local industry partner

Expanded Learning Opportunities

- Participate in an FFA career, leadership, and speaking contest like an agriscience fair
- Attend an agricultural industry seminar

Aligned Industry-Based Certifications

- Ducks Unlimited Ecology Conservation and Management Certification



Bastrop ISD
CAREER & TECHNICAL EDUCATION

Successful completion of the Environmental and Natural Resources program of study will fulfill requirements of the Business and Industry endorsement.



Example Aligned Occupations

Environmental Engineering Technologists and Technicians

Median Wage: \$48,124
Annual Openings: 186
10-Year Growth: 18%

Environmental Scientists and Specialists

Median Wage: \$75,421
Annual Openings: 731
10-Year Growth: 25%

Environmental Engineers

Median Wage: \$103,246
Annual Openings: 316
10-Year Growth: 18%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study/additional-resources>