



# 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: *Agriculture Business, Leadership, and Communications*

The Agriculture Business, Leadership, and Communications program of study focuses on occupational and educational opportunities associated with farming and agriculturally related businesses that supply farm inputs, such as machinery and seeds. This program of study includes exploration of farm product marketing, the purchase of farm products either for processing or resale, and the process of grading or classifying unprocessed food or other agricultural products.

### Secondary Courses for High School Credit

- |                |   |
|----------------|---|
| <b>Level 1</b> | <ul style="list-style-type: none"> <li>Principles of Agriculture, Food, and Natural Resources</li> <li>Professional Communications</li> </ul>   |
| <b>Level 2</b> | <ul style="list-style-type: none"> <li>Professional Standards in Agribusiness</li> </ul>  |
| <b>Level 3</b> | <ul style="list-style-type: none"> <li>Agribusiness Management and Marketing</li> </ul>   |
| <b>Level 4</b> | <ul style="list-style-type: none"> <li>Agricultural Leadership, Research, and Communications</li> <li>Career Preparation for Programs of Study + Extended Career Preparation</li> </ul> |



### Example Postsecondary Opportunities

#### Associate Degrees

- Accounting
- Agribusiness

#### Bachelor's Degrees

- Agriculture Economics
- Agribusiness

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

- Accounting
- Applied Economics

#### Additional Stackable IBCs/License

- Accredited Farm Manager



### Aligned Advanced Academic Courses

#### Dual Credit

Dual credit offerings will vary by local educational agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

### Work-Based Learning and Expanded Learning Opportunities

#### Work-Based Learning Activities

- Shadow at a farm or ranch that manages livestock and crops to learn about processing and sales
- Intern at an agrochemical manufacturer to learn about new technologies in agribusiness

#### 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

- Entrepreneurship and Small Business
- Microsoft Office Specialist: Microsoft Excel Expert (Excel 2019)
- Production Agriculture - Job Ready

Successful completion of the *Agriculture Business, Leadership, and Communications* program of study will fulfill requirements of the *Business and Industry* endorsement.



### Example Aligned Occupations

#### Loan Interviewers and Clerks

Median Wage: \$46,572  
Annual Openings: 2,307  
10-Year Growth: 10%

#### Loan Officers

Median Wage: \$66,285  
Annual Openings: 2,261  
10-Year Growth: 14%

#### Farmers, Ranchers, and Other Agricultural Managers

Median Wage: \$65,490  
Annual Openings: 28,020  
10-Year Growth: 4%

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>








# Agriculture, Food, and Natural Resources Career Cluster


## Statewide Program of Study: Agriculture Business, Leadership, and Communications

### Course Information


#### Level 1

Course	Prerequisites   Corequisites	Career Clusters
<b>Principles of Agriculture, Food, and Natural Resources*</b> 13000200 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Professional Communications</b> 13009900 (0.5 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	   














#### Level 2

Course	Prerequisites   Corequisites	Career Clusters
<b>Professional Standards in Agribusiness</b> 13000800 (0.5 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

#### Level 3

Course	Prerequisites   Corequisites	Career Clusters
<b>Agribusiness Management and Marketing</b> 13000900 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

#### Level 4

Course	Prerequisites   Corequisites	Career Clusters
<b>Agricultural Leadership, Research, and Communications</b> N1300266 (1 credit)	<b>Prerequisites:</b> One credit from courses in the AFNR career cluster <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Career Preparation for Programs of Study + Extended Career Preparation*</b> First Time Taken: 12701141 (3 credits)	<b>Prerequisites:</b> At least one Level 2 or higher CTE course <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	           

\* Indicates course is included in more than one program of study.

For additional information on the Agriculture, Food, and Natural Resources career cluster, contact [cte@tea.texas.gov](mailto:cte@tea.texas.gov) or visit <https://tea.texas.gov/cte>