

**Course Title: Agribusiness Technology**

<b>Unit: 1</b>	<b>Career Opportunities</b>
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>List employment opportunities in agribusiness Technology.</li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>Identify available jobs in agribusiness communications.</li> <li>Describe the duties associated with available jobs.</li> <li>Discuss educational requirements for available jobs in agribusiness technology.</li> <li>Compare benefits of available jobs in agribusiness technology.</li> </ol>
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<b>Essential Question(s):</b>	<p>What criteria should a student use in selecting a career path?          What resources are available to students conducting a job search?</p>
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<b>Content Knowledge</b>	<b>Suggested Instructional Activities Rigor &amp; Relevance Framework (Quadrant)</b>	<b>Suggested Materials, Equipment and Technology Resources</b>
<p>I. Career</p> <ol style="list-style-type: none"> <li>A. Define work</li> <li>B. Employee benefits                             <ol style="list-style-type: none"> <li>1. Insurance                                     <ol style="list-style-type: none"> <li>a. Major Medical</li> <li>b. Dental</li> <li>c. Vision</li> </ol> </li> <li>2. Retirement plans                                     <ol style="list-style-type: none"> <li>a. 401K</li> <li>b. Stock options</li> </ol> </li> </ol> </li> </ol>	<p>Research paper                      Job applications                      Cover letter                      Résumé                      Mock job interview                      PowerPoint Presentation</p>	<p>PowerPoint Presentation                      Computer                      Multimedia projector                      Internet access                      Sample job application</p>

<b>Unit Assessment:</b>	Tests, performance tasks, demonstrations, teacher observations
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**Unit/Course  
CTSO Activity:**

The content enforces leadership skills through career exploration.

**Unit/Course  
Culminating  
Product:**

Students will become hireable citizens after gaining the knowledge of careers.

**Course/Program Credential(s):**  Credential  Certificate  Postsecondary Degree  University Degree  
 Other:

**Course Title: Agribusiness Technology**

<b>Unit: 2</b>	<b>Safety</b>
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	Students will: 2. Explain safety practices in agribusiness technology.
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	Students will: 1. Identify safety considerations related to agribusiness technology.
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<b>Essential Question(s):</b>	What safety regulations should be followed in agribusiness technology?
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<b>Content Knowledge</b>	<b>Suggested Instructional Activities Rigor &amp; Relevance Framework (Quadrant)</b>	<b>Suggested Materials, Equipment and Technology Resources</b>
I. Safety A. Safety considerations	PowerPoint Presentation 5 + 1	PowerPoint Presentation Computer Multimedia projector Internet access

<b>Unit Assessment:</b>	Teacher observations, safety test (100% mastery)
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<b>Unit/Course CTSO Activity:</b>	
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<b>Unit/Course Culminating</b>	
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**Product:**

**Course/Program Credential(s):**  Credential  Certificate  Postsecondary Degree  University Degree  
 Other:

**Course Title: Agribusiness Technology**

<b>Unit: 3</b>	<b>Agribusiness Software</b>
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<p><b>Content Standard(s) and Depth of Knowledge Level(s):</b></p>	<p>Students will:</p> <ol style="list-style-type: none"> <li>3. Identify software used for agribusiness tasks, including accounting, production management, communications, and marketing.             <ul style="list-style-type: none"> <li>• Formulating business reports from spreadsheets</li> </ul> <p style="margin-left: 40px;">Examples: budget, payroll, cash flow statement, profit and loss analysis, balance sheet, inventory, production records</p> </li> <li>4. Select a database for organizing agricultural data.             <p style="margin-left: 40px;">Examples: agricultural data—production records, budget records, market data</p> <ul style="list-style-type: none"> <li>• Explaining relationships among data fields, records, and files</li> <li>• Critiquing methods for searching databases to retrieve information</li> <li>• Identifying devices for storing and transferring data, including flash drives, portable media players, and personal digital assistants (PDAs)</li> </ul> </li> <li>5. Utilize software to produce an agribusiness publication.</li> <li>6. Utilize software to create an agribusiness presentation.</li> </ol>
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<p><b>Learning Objective(s) and Depth of Knowledge Level(s):</b></p>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Describe some general applications of computers in agribusiness management.</li> <li>2. Explain general computer applications by producers in the major segments of agricultural production.</li> <li>3. Describe how to use a database to organize data in agriculture.</li> <li>4. Demonstrate how to create agribusiness publications and databases.</li> </ol>
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<p><b>Essential Question(s):</b></p>	<p>What are some types of software used in agribusiness technology?          How can computers be used to create databases, publications and presentations that can be used in an agribusiness?</p>
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Content Knowledge	Suggested Instructional Activities Rigor & Relevance Framework (Quadrant)	Suggested Materials, Equipment and Technology Resources
<p>I. Agribusiness Software</p> <p style="margin-left: 20px;">A. Tasks using software</p> <ol style="list-style-type: none"> <li>1. Budget</li> <li>2. Payroll</li> <li>3. Cash flow statement</li> <li>4. Profit and loss analysis</li> </ol>	<p>Demonstration</p> <p>Work-based learning</p> <p>Collaborative learning</p>	<p>Computer</p> <p>Sample budget</p> <p>Sample payroll</p> <p>Sample cash flow statement</p> <p>Sample profit and loss analysis</p> <p>Sample balance sheets</p>

<ul style="list-style-type: none"> <li>5. Balance sheet</li> <li>6. Inventory</li> <li>7. Production records</li> <li>B. Agricultural data using databases <ul style="list-style-type: none"> <li>1. Production records</li> <li>2. Market records</li> <li>3. Budget records</li> </ul> </li> <li>C. Using databases <ul style="list-style-type: none"> <li>1. Building databases</li> <li>2. Searching databases</li> <li>3. Storing and transferring data</li> </ul> </li> <li>D. Other uses of software <ul style="list-style-type: none"> <li>1. Agribusiness publications</li> <li>2. Agribusiness presentations</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>Sample inventories</li> <li>Sample production records</li> <li>Sample market records</li> <li>Online resources</li> <li>Sample publications</li> <li>Sample presentations</li> </ul>
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<b>Unit Assessment:</b>	Teacher observations, performance based evaluations
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<b>Unit/Course CTSO Activity:</b>	
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<b>Unit/Course Culminating Product:</b>	
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<b>Course/Program Credential(s):</b> <input type="checkbox"/> Credential <input type="checkbox"/> Certificate <input type="checkbox"/> Postsecondary Degree <input checked="" type="checkbox"/> University Degree <input type="checkbox"/> Other:
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**Course Title: Agribusiness Technology**

<b>Unit: 4</b>	<b>Telecommunications</b>
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	Students will: 7. Describe telecommunication technology for agribusiness settings.
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	Students will: 1. Explain how telecommunication technology is used in the agribusiness setting.
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<b>Essential Question(s):</b>	How can telecommunication technology be used in the agribusiness setting?
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<b>Content Knowledge</b>	<b>Suggested Instructional Activities Rigor &amp; Relevance Framework (Quadrant)</b>	<b>Suggested Materials, Equipment and Technology Resources</b>
I. Telecommunication A. Telecommunication technology 1. Fax 2. Email 3. Teleconference 4. Video conference	PowerPoint Presentation Guided practice	Computer LCD projector Whiteboard Fax Internet Telephone Computer video Computer headset

<b>Unit Assessment:</b>	Tests, teacher observations, performance based evaluations
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**Unit/Course  
CTSO Activity:**

**Unit/Course  
Culminating  
Product:**

**Course/Program Credential(s):**  Credential  Certificate  Postsecondary Degree  University Degree  
 Other:

**Course Title: Agribusiness Technology**

<b>Unit: 5</b>	<b>Networking</b>
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	Students will: 8. Describe the advantages of computer networking in an agribusiness.
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	Students will: 1. Explain how networks can benefit an agribusiness.
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<b>Essential Question(s):</b>	How can networks benefit an agribusiness?
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<b>Content Knowledge</b>	<b>Suggested Instructional Activities Rigor &amp; Relevance Framework (Quadrant)</b>	<b>Suggested Materials, Equipment and Technology Resources</b>
I. Networking A. Networking advantages 1. Sharing 2. Storage 3. Economic	PowerPoint Presentation Guided practice	Computer LCD projector Whiteboard Network

<b>Unit Assessment:</b>	Tests, teacher observations, performance based evaluations
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<b>Unit/Course CTSO Activity:</b>	
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<b>Unit/Course</b>	
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**Culminating  
Product:**

**Course/Program Credential(s):**  Credential  Certificate  Postsecondary Degree  University Degree  
 Other:

**Course Title: Agribusiness Technology**

<b>Unit: 6</b>	<b>Positioning Systems</b>
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>9. Explain the history of the Global Positioning System (GPS) and the Geographic Information System (GIS).</li> <li>10. Explain ways GPS and GIS units are used in the agricultural industry.</li> <li>11. Describe ways GPS and GIS data is merged with agricultural production records.</li> </ol>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <ol style="list-style-type: none"> <li>1. Describe how GPS and GIS were created and how they function.</li> <li>2. Explain how the use of GPS and GIS benefit the agricultural industry.</li> </ol>
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<b>Essential Question(s):</b>	<p>How do GPS and GIS work? How do GPS and GIS benefit agriculture?</p>
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<b>Content Knowledge</b>	<b>Suggested Instructional Activities Rigor &amp; Relevance Framework (Quadrant)</b>	<b>Suggested Materials, Equipment and Technology Resources</b>
<p>I. Positioning Systems</p> <ol style="list-style-type: none"> <li>A. History of positioning systems               <ol style="list-style-type: none"> <li>1. GIS</li> <li>2. GPS</li> </ol> </li> <li>B. Benefits to agriculture               <ol style="list-style-type: none"> <li>1. GIS</li> <li>2. GPS</li> </ol> </li> <li>C. GIS/GPS merged with agriculture records</li> </ol>	<p>PowerPoint Presentation Demonstrations Work based experience Collaborative learning</p>	<p>Computer LCD projector Whiteboard GPS equipment GIS equipment Farm records</p>

<b>Unit Assessment:</b>	Tests, teacher observations, performance based evaluations
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**Unit/Course  
CTSO Activity:**

**Unit/Course  
Culminating  
Product:**

**Course/Program Credential(s):**  Credential  Certificate  Postsecondary Degree  University Degree  
 Other:

**Course Title: Agribusiness Technology**

<b>Unit: 7</b>	<b>Electronic Control Systems</b>
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<b>Content Standard(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <p>12. Explain ways electronic control systems are used in the agribusiness industry.</p> <p>Examples: thermostat in poultry house, timer in greenhouse</p>
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<b>Learning Objective(s) and Depth of Knowledge Level(s):</b>	<p>Students will:</p> <p>1. Explain how electronic control systems benefit the agribusiness industry.</p>
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<b>Essential Question(s):</b>	How is electronic control systems used in the agriculture industry?
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<b>Content Knowledge</b>	<b>Suggested Instructional Activities Rigor &amp; Relevance Framework (Quadrant)</b>	<b>Suggested Materials, Equipment and Technology Resources</b>
<p>I. Electronic control systems</p> <p>A. Electronic control system uses</p> <ol style="list-style-type: none"> <li>1. Poultry houses</li> <li>2. Greenhouses</li> <li>3. Aquaculture systems</li> </ol>	<p>PowerPoint Presentation</p> <p>Demonstrations</p> <p>Collaborative learning</p>	<p>Computer</p> <p>LCD projector</p> <p>Whiteboard</p> <p>Some type of electronic controls</p>

<b>Unit Assessment:</b>	Tests, teacher observations, performance based evaluations
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<b>Unit/Course CTSO Activity:</b>	This course will enforce student's ability to record data used toward their SAE.
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<b>Unit/Course</b>	Students will be able to successfully integrate technology to enhance operations in an agribusiness setting.
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**Culminating  
Product:**

**Course/Program Credential(s):**  Credential  Certificate  Postsecondary Degree  University Degree

Other: