Agribusiness Technology

Agribusiness Technology is a one-credit course designed to facilitate student success in careers in agribusiness technology or success in any agricultural field. This course provides students with opportunities to acquire knowledge and skills related to agribusiness technology in the workplace. Topics include careers, safety, agribusiness software, telecommunications, networking, global positioning systems, and electronic control systems.

Content standards for this course are not intended to serve as the entire curriculum. Teachers are encouraged to expand the curriculum beyond the limits of these content standards to accommodate specific community interests and utilize local resources. This course encourages critical thinking, use of the scientific method, integration of technology, development of student leadership skills, and application of knowledge and skills related to practical questions and problems. Safety concepts are integrated into instruction to the maximum extent possible.

Career and technical student organizations are integral, cocurricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Career Opportunities

Students will:

1. Identify career and entrepreneurship opportunities in the field of agribusiness technology.

Safety

2. Explain safety practices in agribusiness technology.

Agribusiness Software

3. Identify software used for agribusiness tasks, including accounting, production management, communications, and marketing.
   - Formulating business reports from spreadsheets
     Examples: budget, payroll, cash flow statement, profit and loss analysis, balance sheet, inventory, production records

4. Select a database for organizing agricultural data.
   Examples: agricultural data—production records, budget records, market data
   - Explaining relationships among data fields, records, and files
   - Critiquing methods for searching databases to retrieve information
   - Identifying devices for storing and transferring data, including flash drives, portable media players, and personal digital assistants (PDAs)
5. Utilize software to produce an agribusiness publication.
6. Utilize software to create an agribusiness presentation.

**Telecommunication**
7. Describe telecommunication technology for agribusiness settings.

**Networking**
8. Describe advantages of computer networking in an agribusiness.

**Positioning Systems**
9. Explain the history of the global positioning system (GPS) and the geographic information system (GIS).
10. Explain ways GPS and GIS units are used in the agricultural industry.
11. Describe ways GPS and GIS data is merged with agricultural production records.

**Electronic Control Systems**
12. Explain ways electronic control systems are used in the agribusiness industry.
   Examples: thermostat in poultry house, timer in greenhouse