



# Bentonville Schools

**Course Name:** Intro to Agriculture

**School Year:** Last Edit- 7/13/2026

**Course Description:** *Intro to Agriculture* is a foundation course for all agricultural programs of study. Topics covered include general agriculture, FFA, leadership, supervised agricultural experiences, animal systems, plant systems, agribusiness systems, food products and processing systems, biotechnology, precision ag systems, and power, structural and technical systems.

## Overview of Student Outcomes

| Timeframe | Standards for Survey of Agricultural Systems:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| 3 weeks   | <p>Standard 1.0 &amp; Standard 4.0<br/><b>Explore the Agricultural Industry</b></p> <p><i>Goal: Explain the Importance of Agriculture. (1.1)</i><br/><i>Goal: Examine the Agricultural Industry. (1.2)</i><br/><i>Goal: Analyze Agricultural Impact (4.1)</i></p>                                                                                                                                                                                                                                                                                                        |
| 4 weeks   | <p>Standard 2.0 &amp; Standard 3.0<br/><b>Explore FFA and Leadership in the Agricultural Industry</b><br/><b>Explore Experiential Learning and Supervised Agricultural Experiences</b></p> <p><i>Goal: Identify FFA Basics (2.1)</i><br/><i>Goal: Practice FFA Leadership opportunities (2.2)</i><br/><i>Goal: Determine the Career Pathways in AFNR. (3.1)</i><br/><i>Goal: Associate various Career Development Events with their corresponding Agricultural Pathway (3.2)</i><br/><i>Goal: Plan and Develop Student Supervised Agricultural Experiences (3.3)</i></p> |
| 2 weeks   | <p>Standard 5.0<br/><b>Explore Agribusiness Systems</b></p> <p><i>Goal: Analyze the economic significance and business structures of Arkansas agribusiness. (5.1)</i><br/><i>Goal: Apply basic financial and marketing principles to agricultural contexts (5.2)</i><br/><i>Goal: Apply human resource management and risk mitigation strategies to agricultural enterprises. (5.3)</i></p>                                                                                                                                                                              |
| 6 weeks   | <p>Standard 6.0<br/><b>Introduction to Agriculture Power, Structural and Technical Systems.</b></p> <p><i>Goal: Demonstrate safe practices and fundamental skills in agricultural mechanics. (6.1)</i></p>                                                                                                                                                                                                                                                                                                                                                               |



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| <b>5 weeks</b> | <p><i>Goal: Understand and apply principles of engines, power systems, and precision technologies. (6.2)</i></p> <p><i>Goal: Discuss metal and structural fabrication processes for agricultural applications. (6.3)</i></p> <p><b>Standard 7.0</b><br/><b>Explore Animal Systems</b></p> <p><i>Goal: Explore the historical and economic impact of animal systems. (7.1)</i></p> <p><i>Goal: Describe fundamental principles of animal care and management. (7.2)</i></p> <p><i>Goal: Analyze nutritional requirements and feeding practices for animals. (7.3)</i></p> <p><i>Goal: Define animal welfare and identify the basic needs of animals.</i></p> |
| <b>2 weeks</b> | <p><b>Standard 8.0</b><br/><b>Explore Food Products &amp; Processing Systems.</b></p> <p><i>Goal: Develop and implement procedures to ensure safety, sanitation, and quality in food product and processing facilities. (8.1)</i></p> <p><i>Goal: Apply principles of nutrition, biology, microbiology, chemistry, and human behavior to the development of food products. (8.2)</i></p> <p><i>Goal: Explain the scope of the food industry and the historical and current developments of food product and processing. (8.3)</i></p>                                                                                                                       |
| <b>4 weeks</b> | <p><b>Standard 9.0</b><br/><b>Explore Plant Systems</b></p> <p><i>Goal: Analyze the importance of plants in meeting human needs and their environmental relationships in Arkansas. (9.1)</i></p> <p><i>Goal: Apply knowledge of plant anatomy and physiology to plant growth and development. (9.2)</i></p> <p><i>Goal: Explore basic plant production practices used in Arkansas Agriculture. (9.3)</i></p>                                                                                                                                                                                                                                                |
| <b>3 weeks</b> | <p><b>Standard 10.0</b><br/><b>Explore Biotechnology Systems</b></p> <p><i>Goal: Explain the historical timeline of agricultural biotechnology. (10.1)</i></p> <p><i>Goal: Summarize the relationship between biological structures and their specific functions within agricultural systems. (10.2)</i></p> <p><i>Goal: Describe how biotechnology is used in plant and animal science. (10.3)</i></p>                                                                                                                                                                                                                                                     |
| <b>2 weeks</b> | <p><b>Standard 11.0</b><br/><b>Introduction to Precision Agriculture</b></p> <p><i>Goal: Define precision agriculture and analyze its impact on modern farming (11.1)</i></p> <p><i>Goal: Examine technologies used in precision agriculture systems (11.2)</i></p> <p><i>Goal: Evaluate the benefits of precision agriculture for farmers, consumers, and the environment (11.3)</i></p>                                                                                                                                                                                                                                                                   |



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**Available Student Support for Learning:**

*\*Please refer to your teacher's website or Google Classroom for more information.*

<https://www.theaet.com/> Agriculture Experience Tracker

<https://www.uaex.uada.edu/> University of Arkansas Cooperative Extension Service

<https://www.usda.gov/> United States Department of Agriculture

<https://www.arkansasffa.org/> Arkansas FFA

<https://www.ffa.org/> National FFA Organization