



## Principles of Agriculture, Food and Natural Resources

### Course Outline

Grade Level:	Length of Course:	Credit:	ISBE Code
5-8	Year	1	18001A003

Course Description: Principles of AFNR would provide instruction in the foundations of various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal agriculture, plant and land management, and agricultural mechanics skills will be the focus. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Participation in local FFA student organization activities are an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

*\*This suggested outline should be used as a guide and can be modified to fit the school situation in alignment with the program focus and the length of the course. A minimum of 60-70% of the lessons found in this outline should appear in the outline developed.*

Unit Title	Lesson Title	Resource & Code	Pace
What is Agriculture and Its Impact?	What makes up Agriculture and Agriscience?		5 Hours
	How does Agriculture Impact our State, Nation, and World?		
	Distribution of Agricultural Products		
	How is Agriculture a Science?		
	What Careers make up the Agriculture Industry?		

Unit Title	Lesson Title	Resource & Code	Pace
Introduction to Basic Laboratory Principles	Safety practices in Laboratory Setting		5 Hours
	Components of a Research Project		

Unit Title	Lesson Title	Resource & Code	Pace
Food Production, Processing and Science	Common Agriculture Products		5 Hours
	Common By-Products in Agriculture		
	Healthy eating		
	Safe Food Handling/GAP		
	Sanitation/Spoilage/ Storage		
	Nutritional Balance: MyPlate		

Unit Title	Lesson Title	Resource & Code	Pace
Soil Science	Soil Formation	What is Soil? ADD TO PLANT SYSTEMS	10 Hours
	Soil Profile		
	Soil Texture		
	Soil Structure		
	Soil Erosion		

Unit Title	Lesson Title	Resource & Code	Pace
Plant Systems	Flower Anatomy		10 Hours
	Leaf Anatomy		
	Root Anatomy		
	Impacts to Plant Growth		

Unit Title	Lesson Title	Resource & Code	Pace
Animal Systems	How Animals Benefit Humans?		15 Hours
	Livestock selection techniques		
	Structure and Functions of Animals		
	Major parts and Terminology of Livestock		
	Explore Beef Industry and Breeds		
	Explore Swine Industry and Breeds		
	Explore Sheep/ Goat Industry and Breeds		
	Explore Dairy Industry and Breeds		
	Explore Equine Industry and Breeds		

Unit Title	Lesson Title	Resource & Code	Pace
Agribusiness Operations and Marketing.	What is Marketing?		10 Hours
	Role of Consumers in marketing		
	Developing a Marketing Plan for Agriculture Product		

Unit Title	Lesson Title	Resource & Code	Pace
Basic of Ag Mechanics	Safe Use of Hand and Power Tools		10 Hours
	Basic Carpentry		
	Simple Circuits		
	Basics of Welding		

Unit Title	Lesson Title	Resource & Code	Pace
Agriculture Technology	History of Technology Growth in Agriculture		10 Hours
	Impactful Agriculture Inventors		
	Impact of Agriculture Technology on Production		

Unit Title	Lesson Title	Resource & Code	Pace
Basics of FFA	History FFA		10 Hours
	FFA Leadership Development		

			<b>Total Hours: 90</b>
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Illinois Agricultural Education State Curriculum  
 Lesson titles shown with a code have been developed as the Illinois Agricultural Education State Curriculum and are available free to all schools with an approved agricultural education program. Resources for each lesson title include teacher lesson plan, PowerPoint presentation with guided notes, student Eunit reading resource, worksheets, and an assessment(quiz). This state-provided curriculum of 1200 lessons is located at [www.ilaged.org](http://www.ilaged.org). The lessons are coded by the library as indicated below:

Coding

Appendix	Descriptions
AFNR	Agriculture, Food and Natural Resources
*	National FFA Education Resources

**Additional Resources:**

[AET Lessons: The Agricultural Experience Tracker](#)

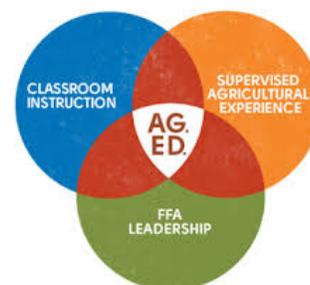
[Ag Explorer](#)

<a href="#">Explore SAE</a>
<a href="#">Next Gen Personal Finance</a>
<a href="#">National FFA Current Event Resources</a>
<a href="#">National FFA Resources</a>
<a href="#">National FFA SAE Resources</a>
<a href="#">SAE for ALL:</a>

## FFA LEADERSHIP

### Membership:

Members must pay dues, or be members of an affiliated chapter, and are eligible for all activities, with the exception of those specifically restricted in the rules. Please reference your local FFA Constitution and By-Laws to determine how FFA Membership is conducted in your local chapter.



### Degrees:

The local chapter will award Chapter FFA Degrees to 10th and 11th-grade members enrolled in an approved agriculture education class taught by a certified teacher. Members enrolled in 11<sup>th</sup> and 12<sup>th</sup> grade are also eligible for the Illinois FFA State Degree if minimum qualifications are met. For more information on FFA Degrees, please visit <https://www.ilaged.org/degrees>

### Leadership & Career Development Events:

Members are eligible to participate in career and leadership development events at the section, district, state, and national levels. For more information about these events in Illinois, visit <https://www.ilaged.org/CDE>

## SUPERVISED AGRICULTURAL EXPERIENCE

Members are able to complete Supervised Agricultural Experience (SAE) records and compete for the honors through proficiency awards and degrees. To learn more about SAEs, visit <http://exploresae.com>.

## PACE FRAMEWORK ALIGNMENT

To view the full PaCE Framework click [here](#).