Indiana Department of Education Academic Standards Content Framework

MIDDLE LEVEL EXPLORING AGRICULTURE SCIENCE AND BUSINESS ED

Exploring Agriculture is a course that is suggested to be a semester long course, but can be refined to fit the needs of each school. The nature of this course is to provide students with an overview of various aspects of the agriculture industry. Topics to be covered in this course can include: leadership, supervised agriculture experience, plant and soil science, natural resources, animal science, agribusiness, food science, and power, structure and technical systems.

Exploring Agriculture introduces students to many careers in agriculture. These careers range from Agritourism Manager to Veterinarian and Implement Salesman to Agriculture Lawyer.

Course Specifications

- DOE Code: 0496
- Recommended Grade Level: Grade 5-8
- Recommended Prerequisites: None
- This course can be tailored to fit the needs of the school's agriculture program. It is suggested
 that standards from the FFA domain are covered in each program as well as careers associated
 with each domain. From there, programs can choose domains that best fit the school's time
 constraints, resources and capabilities.

Career and Technical Student Organization (CTSOs)

Career and Technical Student Organizations are considered a powerful instructional tool when integrated into Career and Technical Education courses. They enhance the knowledge and skills students learn in a course by allowing a student to participate a unique program of career and leadership development. Students in this course should be encouraged to participate in FFA.

Content Standards

Domain-Leadership

Core Standard 1 Students are able to see the importance of developing leadership skills and how The National FFA Organization (FFA) can be a critical component of a well-rounded agricultural education.

Standards

EA-1.1	Recognize and explain the role of FFA in the development of leadership,
	employability, communications and human relations skills
EA-1.2	Develop an understanding of the history of The National FFA Organization
EA-1.3	Identify and understand personality types to be able to work with others effectively

Domain- Supervised Agriculture Experience

on a team

Core Standard 2 Students see the importance of a Supervised Agricultural Experience (SAE) program and how it is a critical component of a well-rounded agricultural education.

Standards

EA-2.1	Explain the nature of and become familiar with those terms related to an SAE program
EA-2.2	Explore the numerous possibilities for an SAE program which a student might develop
EA-2.3	Understand and apply basic record keeping skills

Domain- Plant, Soil, and Horticulture Science

Core Standard 3 Students have an understanding of plant and soil science and how it relates to the agricultural industry.

Standards

EA-3.1	Understand basic needs of plant growth from germination to soil fertility
EA-3.2	Explore and recognize the importance of plant and soil science as it relates to the agricultural industry
EA-3.3	Identify and describe basic plant structures and their roles within the plant
EA-3.4	Identify basic soil properties
EA-3.5	Explore the importance of biotechnology as it relates to feeding a growing world population.

Domain- Natural Resources

Core Standard 4 Students gain an understanding of preserving and replenishing our natural resources through natural resource management.

Standards

EA-4.1	Identify renewable and nonrenewable resources and how they relate to everyday life
EA-4.2	Explore the interaction between local natural resources and the economy
EA-4.3	Understand the relationship between wildlife habitats and human population

Domain- Animal Science

Core Standard 5 Students gain an understanding of the importance of the animal industry.

Standards

EA-5.1	Share and explain the care and management of various animals in the livestock and companion animal industries
EA-5.2	Understand the relationship between wildlife habitats and human population
EA-5.3	Explain common uses of animals
EA-5.4	Identify common species and/or breeds of livestock

Domain-Agribusiness

Core Standard 6 Students recognize basic economic principles and how they relate to agricultural business management.

Standards

EA-6.1	Recognize the influence of social media as it relates to agricultural businesses
EA-6.2	Define agritourism and how it affects the agricultural industry.
EA-6.3	Apply principles of personal finances that are used in everyday life

Domain-Food Science

Core Standard 7 Students examine components of the food science industry and how they relate to agriculture.

Standards

EA-7.1	Explore how various foods are grown and processed through the concept of farm to
	plate.
FΛ-7 2	Apply concents of MyPlate to a balanced diet for all ages

- EA-7.2 Apply concepts of MyPlate to a balanced diet for all ages
- EA-7.3 Recognize food safety principles and management techniques

Domain- Power, Structure, and Technical Systems

Core Standard 8 Students gain a basic understanding of agricultural power, structure, and technical systems.

Standards

EA-8.1	Recognize and apply safety principles as they relate to agriculture and everyday life
EA-8.2	Identify and understand the uses of various hand and power tools
EA-8.3	Explore modern technology applications within the agriculture industry

Domain - Careers

Core Standard 9 Students examine the scope of career opportunities in and the importance of agriculture to the economy.

Standards

EA-9.1	Evaluate the nature and scope of agriculture in society and the economy
EA-9.2	Describe career opportunities and means to achieve those opportunities in agriculture
EA-9.3	Explore those qualities, attributes, and skills necessary to succeed in a chosen agricultural career