

Florida Department of Education  
CURRICULUM FRAMEWORK

**Program Title:** Introduction to Agriscience  
**Occupational Area:** Agriscience and Natural Resources

Secondary

**Program Numbers** 8100120  
CIP Number 0101.9921EX  
Grade Level 6-9, 30, 31  
Length 0.5 credits  
Certification AGRI @4  
AGRICULTUR 1 @2  
EXP AG @4  
VOC AGRI @4

- I. **MAJOR CONCEPTS/CONTENT:** The purpose of this course is to introduce students to the broad area of agriscience and to stimulate personal aptitudes, abilities, and interests in agriculture prior to orientation and exploration of careers.

The content includes, but is not limited to, agricultural literacy, importance of agriculture, the role of science, math, reading, writing, geography, history, and technology in agriculture, plants and animals, and sources of consumer goods from agriculture. Reinforcement of academic skills occurs through classroom instruction and applied laboratory procedures.

- II. **LABORATORY ACTIVITIES:** Hands-on laboratory experiences are an integral part of this course, including the safe use of laboratory and hand tools specific to agriscience and natural resources occupations.

- III. **SPECIAL NOTE:** The FFA is the appropriate Career Technical Student Organization for providing leadership training and for reinforcing specific vocational skills. Career Technical Student Organizations, when provided, shall be an integral part of the vocational instructional program, and the activities of such organizations are defined as part of the curriculum in accordance with Rule 6A-6.065(8), FAC.

- IV. **INTENDED OUTCOMES:** After successfully completing this course, the student will be able to:

- 01.0 Identify the importance of agriculture.
- 02.0 Integrate the use of science, mathematics, reading, geography, history, writing, and communication in agriscience and technology.
- 03.0 Describe chains between producer and consumer for agricultural products.
- 04.0 Use selected techniques to produce finished products from agricultural materials.
- 05.0 Describe the importance of plants and animals in agriculture.
- 06.0 Describe leadership and communication skills.

**Florida Department of Education  
STUDENT PERFORMANCE STANDARDS**

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01.0 IDENTIFY THE IMPORTANCE OF AGRICULTURE--The student will be able to:

- 01.01 Define agriculture and explain its diversity and scope. LAB 2.3.1
- 01.02 Describe the importance of agriculture on a world, national, state and community scale. LAB 2.3.1; SSB 2.3.3
- 01.03 Describe the importance of agriculture in each individual's life. LAB 2.3.1; SCD 2.3.1
- 01.04 Collect and discuss information on current agricultural events. LAA 2.3.6
- 01.05 Trace the evolution of agriculture. MAE 1.3.1; SSA 2.3.3, 2.3.6, 4.3.1
- 01.06 Identify conditions necessary for agricultural production. SSB 1.3.3, 2.3.8; SCD 1.3.3
- 01.07 Identify the major agricultural production areas of the United States and of Florida. SSA 6.3.1, 6.3.2, 6.3.3, 6.3.4, 6.3.5; SSB 1.3.1
- 01.08 Describe the diversity of career opportunities in agriscience and technology. LAA 2.3.6
- 01.09 Describe the relationship between environmental resources and agriculture. LAA 1.3.2; SCB 2.3.2; SCG 2.3.1, 2.3.2, 2.3.3, 2.3.4
- 01.10 Describe technology used in agricultural production. SCA 2.3.3; SCH 3.3.5, 3.3.6, 3.3.7
- 01.11 Describe technology used in processing and marketing agricultural products. MAB 3.3.1; SCH 3.3.5, 3.3.6, 3.3.7; SSA 2.3.3; SSD 2.3.1, 2.3.2, 2.3.3

02.0 INTEGRATE THE USE OF SCIENCE, MATHEMATICS, READING, GEOGRAPHY, HISTORY, WRITING, AND COMMUNICATION IN AGRISCIENCE AND TECHNOLOGY--The student will be able to:

- 02.01 Apply basic mathematics operations to solve agricultural problems. MAA 1.3.4, 3.3.2, 3.3.3; MAB 3.3.1
- 02.02 Correctly use measuring devices and utilize measurements to solve agricultural problems. MAB 1.3.1, 1.3.3, 1.3.4, 4.3.1, 4.3.2; SCA 1.3.1, 1.3.2
- 02.03 Prepare written and/or oral materials using correct English grammar. LAB 1.3.1, 1.3.2, 1.3.3; LAC 3.3.1, 3.3.2, 3.3.3
- 02.04 Identify the main idea in oral presentations and/or written materials. LAA 2.3.1; LAB 1.3.1, 1.3.2; LAC 1.3.1, 1.3.4; LAC 3.3.1, 3.3.2, 3.3.3
- 02.05 Locates, organizes, and interprets information from a variety of agricultural sources. LAA 1.3.4, 2.3.5, 2.3.6, 2.3.7
- 02.06 Describe the historical evolution of agriculture. MAE 1.3.1; SSA 1.3.1, 2.3.3, 2.3.6, 3.3.2, 3.3.3, 3.3.4, 4.3.1, 4.3.2, 4.3.3, 5.3.1, 5.3.2, 5.3.3, 6.3.1, 6.3.2, 6.3.3, 6.3.5
- 02.07 Select and study a problem that can be tested under controlled conditions to establish a hypothesis or to illustrate a known law. LAA 2.3.5, 2.3.6, 2.3.7, 2.3.8; SCH 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.3.5, 1.3.6, 1.3.7, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6, 3.3.7; MAA 3.3.1; MAB 1.3.4; MAE 2.3.1, 2.3.2, 3.3.1; VAA 1.3.1, 1.3.2, 1.3.3

- 03.0 DESCRIBE CHAINS BETWEEN PRODUCER AND CONSUMER FOR AGRICULTURAL PRODUCTS--  
The student will be able to:
- 03.01 Identify the agricultural source of consumer products. LAA 2.3.6
  - 03.02 Trace the development of an agricultural product from the producer to the consumer. SSD 2.3.2; VAA 1.3.4
- 04.0 USE SELECTED TECHNIQUES TO PRODUCE FINISHED PRODUCTS FROM AGRICULTURAL MATERIALS--The student will be able to:
- 04.01 Complete a project safely using the appropriate agricultural tools, machinery or equipment. LAA 1.3.2; MAB 1.3.4, 4.3.2; HEA 1.3.2, 1.3.5, 1.3.7; HEB 1.3.2, 1.3.5
  - 04.02 Prepare and process an agricultural product. LAA 2.3.5; MAB 3.3.1; HEA 1.3.7, 1.3.9
  - 04.03 Propagate horticulture plants. SCF 2.3.1, 2.3.2, 2.3.3
- 05.0 DESCRIBE THE IMPORTANCE OF PLANTS AND ANIMALS IN AGRICULTURE--The student will be able to:
- 05.01 Identify plants important to agriculture. SCG 1.3.3
  - 05.02 Identify animals important to agriculture. SCG 1.3.3
  - 05.03 Demonstrate the proper handling and ethical care of animals. SCH 3.3.2; HEA.1.3.9; HEB 1.3.2
- 06.0 DESCRIBE LEADERSHIP AND COMMUNICATION SKILLS--The student will be able to:
- 06.01 Describe the aims and purposes of the FFA organization. LAC 3.3.3
  - 06.02 Identify opportunities available to FFA members. LAA 2.3.6