# Agriculture Explorations Course No. 68001 Credit: 1.0

|  |  |  |  |
| --- | --- | --- | --- |
| **Student name:** |  | **Graduation Date:** |  |

Pathways and CIP Codes:  **Animal Science, Health, and Related Industries (01.0901); Agricultural Technology and Mechanical Systems (01.0201); Diversified Agricultural Science (01.0000); Natural Resources and Environmental Sustainability (03.0101); Plant Science and Industry Operations (01.1101).**

Course Description: **Introductory Level**: Agriculture (Middle)

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Agriculture in Our Society

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Define Agriculture. |  |
| 1.2 | Identify the major sectors of the agriculture industry. |  |
| 1.3 | Describe the history of agriculture. |  |
| 1.4 | Describe Kansas agriculture. |  |
| 1.5 | Describe the size, number, and what is grown on farms in Kansas and your home county. |  |
| 1.6 | Describe the importance of American agriculture in world food production. |  |
| 1.7 | Define and give examples of agribusinesses. |  |
| 1.8 | Define issues currently facing the agricultural industry. |  |

## Benchmark 2: Careers in Agriculture

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Research agriculture career opportunities in each pathway. |  |
| 2.2 | Identify important workplace skills for all careers. |  |
| 2.3 | Identify career interests and preferences. |  |
| 2.4 | Create a career development plan. |  |

## Benchmark 3: Agriculture Safety

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Describe the safety hazards associated with agriculture. |  |
| 3.2 | Describe and demonstrate proper attire and PPE for agriculturally related jobs. |  |

## Benchmark 4: Agribusiness Systems

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Define and give examples of agribusinesses. |  |
| 4.2 | Define the words import and export. |  |
| 4.3 | Explain the relationship between producers and agribusinesses. |  |
| 4.4 | Identify five (5) agribusinesses and their purpose in the community. |  |

## Benchmark 5: Plant Systems

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 5.1 | Define agronomy and horticulture. |  |
| 5.2 | List the top 5 agronomic crops grown in Kansas. |  |
| 5.3 | Describe how agronomic crops are used for food, textiles, feed & energy. |  |
| 5.4 | Identify five horticultural crops. |  |
| 5.5 | Describe how to grow, maintain and harvest plants. |  |

## Benchmark 6: Animal Systems

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 6.1 | Describe the basic needs of all animals. |  |
| 6.2 | Identify common breeds of livestock. |  |
| 6.3 | Define and list examples of animal byproducts. |  |
| 6.4 | Define gender terminology for livestock species. |  |

## Benchmark 7: Power Structural & Technical Systems

### Competencies

| **#** | **Description** | **Rating** |
| --- | --- | --- |
| 7.1 | Describe the components of power, structural and technical systems in agriculture. |  |
| 7.2 | Abide by the safety guidelines for using common agricultural tools. |  |
| 7.3 | Identify and describe the uses for common agricultural tools. |  |
| 7.4 | Demonstrate proper measuring skills using hand tools. |  |

## Benchmark 8: Environmental & Natural Resource Systems

### Competencies

| **#** | **Description** | **rating** |
| --- | --- | --- |
| 8.1 | Define and list examples of Natural Resources. |  |
| 8.2 | Differentiate between renewable and non-renewable resources. |  |
| 8.3 | Describe the habitat of Kansas wildlife species. |  |
| 8.4 | Describe causes of soil erosion. |  |
| 8.5 | Describe soil, water, and air conservation practices. |  |

## Benchmark 9: Food Products & Processing

### Competencies

| **#** | **Description** | **Rating** |
| --- | --- | --- |
| 9.1 | List the steps food must go through to from producer to the consumer. |  |
| 9.2 | Explain how food can become unsafe to eat. |  |
| 9.3 | Analyze and understand a food label. |  |
| 9.4 | Describe safe food handling techniques. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

(785) 296-4908

[pathwayshelpdesk@ksde.org](mailto:pathwayshelpdesk@ksde.org)



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

[https://www.ksde.org](https://www.ksde.org/)

The Kansas State Department of Education does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to any group officially affiliated with the Boy Scouts of America and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: KSDE General Counsel, Office of General Counsel, KSDE, Landon State Office Building, 900 S.W. Jackson, Suite 102, Topeka, KS 66612, (785) 296-3201.