# Agriculture Explorations Course No. 68001 Credit: 1.0

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

Pathways and CIP Codes: Agribusiness Systems (01.0101); Comprehensive Agriculture Science (01.9999); Animal Science (01.0901); Biotechnology in Agriculture (26.1201); Food Products & Processing Systems (01.0401); Natural Resources & Environmental Systems (03.0101); Plant Systems (01.1101); Power, Structural & Technical Systems (01.0201)

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. |  |

## Benchmark 2: Opportunities in Agricultural Education & FFA

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Define the purpose of FFA. |  |
| 2.2 | Describe the history and guidelines for being an FFA member. |  |
| 2.3 | Draw the three circle model of agriculture education and label the parts. |  |
| 2.4 | Describe how the FFA is organized on local state and national levels. |  |

## Benchmark 3: Careers in Agriculture

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Research agriculture career opportunities in each pathway. |  |
| 3.2 | Identify important workplace skills for all careers. |  |
| 3.3 | Identify career interests and preferences. |  |
| 3.4 | Create a career development plan. |  |

## Benchmark 4: Agriculture Safety

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Describe the safety hazards associated with agriculture. |  |
| 4.2 | Describe and demonstrate proper attire and PPE for agriculturally related jobs. |  |

## Benchmark 5: Record Keeping & SAE

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 5.1 | Define income & expense. |  |
| 5.2 | Demonstrate basic record keeping skills. |  |
| 5.3 | Develop and set a goal. |  |
| 5.4 | Define SAE and describe the different types of SAEs. |  |

## Benchmark 6: Agribusiness Systems

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 6.1 | Define and give examples of agribusinesses. |  |
| 6.2 | Define the words import and export. |  |
| 6.3 | Explain the relationship between producers and agribusinesses. |  |
| 6.4 | Identify 5 agribusinesses and their purpose in the community. |  |

## Benchmark 7: Plant Systems

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 7.1 | Define agronomy and horticulture. |  |
| 7.2 | List the top 5 agronomic crops grown in Kansas. |  |
| 7.3 | Describe how agronomic crops are used for food, textiles, feed & energy. |  |
| 7.4 | Identify five horticultural crops. |  |
| 7.5 | Describe how to grow, maintain and harvest plants. |  |

## Benchmark 8: Animal Systems

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 8.1 | Describe the basic needs of all animals. |  |
| 8.2 | Identify common breeds of livestock. |  |
| 8.3 | Define and list examples of animal byproducts. |  |
| 8.4 | Define gender terminology for livestock species. |  |

## Benchmark 9: Power Structural & Technical Systems

### Competencies

| **#** | **Description** | **Rating** |
| --- | --- | --- |
| 9.1 | Describe the components of power, structural and technical systems in agriculture. |  |
| 9.2 | Abide by the safety guidelines for using common agricultural tools. |  |
| 9.3 | Identify and describe the uses for common agricultural tools. |  |
| 9.4 | Demonstrate proper measuring skills using hand tools. |  |

## Benchmark 10: Environmental & Natural Resource Systems

### Competencies

| **#** | **Description** | **rating** |
| --- | --- | --- |
| 10.1 | Define and list examples of Natural Resources. |  |
| 10.2 | Differentiate between renewable and non-renewable resources. |  |
| 10.3 | Describe the habitat of Kansas wildlife species. |  |
| 10.4 | Describe causes of soil erosion. |  |
| 10.5 | Describe soil, water, and air conservation practices. |  |

## Benchmark 11: Food Products & Processing

### Competencies

| **#** | **Description** | **Rating** |
| --- | --- | --- |
| 11.1 | List the steps food must go through to from producer to the consumer. |  |
| 11.2 | Explain how food can become unsafe to eat. |  |
| 11.3 | Analyze and understand a food label. |  |
| 11.4 | Describe safe food handling techniques. |  |

## Benchmark 12: Agricultural Issues

### Competencies

| **#** | **Description** | **Rating** |
| --- | --- | --- |
| 12.1 | Define agricultural issues. |  |
| 12.2 | Describe how technology is used in agriculture. |  |
| 12.3 | Identify and describe a technological advancement that has happened in the last 5 years. |  |
| 12.4 | Research a current agriculture issue. |  |

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

Instructor Signature:

For more information, contact:

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