# Agriculture Explorations II Course No. 68002 Credit: 0.5

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

Pathways and CIP: **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) Food Products and Processing Systems (01.0401)**

Course Description: **Introductory Level**: This course surveys a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture career opportunities and to those in related fields. This course serves to introduce students to the agricultural field, providing an opportunity for student to identify an area for continued study or to determine that their interest lies elsewhere.

Special Note: The AFNR College and Career Ready Skills are to be taught throughout the course utilizing FFA and SAE programming found at the Kansas Ag Ed website. Specific activities may be found in the SAE for All Teachers Guide and at National FFA.org. The AFNR College and Career Ready Skills competencies can be found at Kansas Ag Ed.

Opportunities in Agriculture Education & FFA:Classroom and laboratory instruction integrates and/or is supplemented by experiential, project, and leadership and personal development through FFA .Students should be introduced to FFA through leadership activities and College and Career Ready Skills. Specific FFA information and activities may be found in the “National FFA Student Handbook, 16thedition”. Student activities, scoring rubrics, grading examples, and teacher lessons are all found in the “FFA Student Handbook Teachers Guide”. Additional information can be found at [www.ffa.org](http://www.ffa.org/).

Workplace Skills, Supervised Agricultural Experience and Record Keeping: Classroom and laboratory instruction integratesand/or is supplemented by experiential, project, and work based learning through SAE. Specific SAE activities that support the College and Career Ready Skills may be found in the “SAE for All Guide”. Students should be introduced to Foundational SAE’s and the AET student portfolio system. Student activities, scoring rubrics, grading examples, and teacher lessons are all found in the “SAE for All Teachers Guide”. Additional information is found in the SAE Individual Learning Guides and Teacher Editions and in the AFNR College and Career Ready Competency Profile found at *Kansas Ag* *Ed.*

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.

**Prerequisite:** 68001 – Agriculture Explorations I

## Benchmark 1: Agriculture in Our Society

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Explore the major phases of the agriculture industry as products move from producer to consumer. |  |
| 1.2 | Describe Kansas agriculture. |  |
| 1.3 | Describe the history of Kansas agriculture. |  |
| 1.4 | Describe the size, number, and what is grown on farms in Kansas and your home county. |  |
| 1.5 | Define issues currently facing the agricultural industry. |  |

## 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 | Identify career interests and preferences. |  |
| 3.2 | Research a high demand, agriculturally related occupation currently available in Kansas. |  |
| 3.3 | 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 | Demonstrate basic record keeping skills. |  |
| 5.2 | Define SAE and describe the different types of SAEs. |  |
| 5.3 | Set a goal. Develop a plan for an SAE that includes that goal.  |  |

## Benchmark 6: AGRIBUSINESS SYSTEMS

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 6.1 | Identify five agribusinesses and their purpose in the community. |  |
| 6.2 | Discuss key Agriculture industries in Kansas. |  |

## Benchmark 7: PLANT SYSTEMS

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 7.1 | List the top five agronomic crops grown in Kansas. |  |
| 7.2 | Discuss opportunities to develop a Plant Systems SAE locally. |  |
| 7.3 | Describe how to grow, maintain, and harvest plants. |  |

## Benchmark 8: ANIMAL SYSTEMS

### Competencies

| **#** | **Description** | **RATING** |
| --- | --- | --- |
| 8.1 | Identify common breeds of livestock. |  |
| 8.2 | Define gender terminology for livestock species. |  |
| 8.3 | Discuss opportunities to develop an Animal Systems SAE locally. |  |

## Benchmark 9: POWER STRUCTURAL & TECHNICAL SYSTEMS

### Competencies

| **#** | **Description** | **Rating** |
| --- | --- | --- |
| 9.1 | Abide by the safety guidelines for using common agricultural tools. |  |
| 9.2 | Identify and describe the uses for common agricultural tools. |  |
| 9.3 | Demonstrate proper measuring skills using hand tools. |  |

Benchmark 10: ENVIRONMENTAL & NATURAL RESOURCE SYSTEMS

Competencies

| # | Description | rating |
| --- | --- | --- |
| 10.1 | Describe the habitat of Kansas wildlife species. |  |
| 10.2 | Describe causes of soil erosion. |  |
| 10.3 | Describe soil, water, and air conservation practices. |  |

Benchmark 11: FOOD PRODUCTS & PROCESSING

Competencies

| # | Description | Rating |
| --- | --- | --- |
| 11.1 | Analyze and understand a food label. |  |
| 11.2 | Describe safe food handling techniques. |  |
| 11.3 | Explore the difference between food processing and food service. |  |

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



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.