# Common Career Technical Core Biotechnology in Agriculture Pathway

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

Course Description: To be taught in all courses in the approved pathway.

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: Career REady Standards

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Act as a responsible and contributing citizen and employee. |  |
| 1.2 | Apply appropriate academic and technical skills. |  |
| 1.3 | Attend to personal health and financial well-being. |  |
| 1.4 | Communicate clearly, effectively and with reason. |  |
| 1.5 | Consider the environmental,social and economic impacts of decisions. |  |
| 1.6 | Demonstrate creativity and innovation. |  |
| 1.7 | Employ valid and reliable research strategies. |  |
| 1.8 | Utilize critical thinking to make sense of problems and persevere in solving them. |  |
| 1.9 | Model integrity, ethical leadership and effective management. |  |
| 1.10 | Plan education and career path aligned to personal goals. |  |
| 1.11 | Use technology to enhance productivity. |  |
| 1.12 | Work productively in teams while using cultural/global competence. |  |

## Benchmark 2: Agriculture, Food & Natural Resources Career Cluster

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Analyze how issues, trends, technologies and public policies impact systems in the Agriculture, Food & Natural Resources Career Cluster |  |
| 2.2 | Evaluate the nature and scope of the Agriculture, Food & Natural Resources Career Cluster and the role agriculture, food and natural resources (AFNR) play in society and the economy. |  |
| 2.3 | Examine and summarize importance of health, safety and environmental management systems in AFNR organizations. |  |
| 2.4 | Demonstrate stewardship of natural resources in AFNR activities. |  |
| 2.5 | Describe career opportunities and means to achieve those opportunities in each of the Agriculture, Food & Natural Resources Career Pathways. |  |
| 2.6 | Analyze the interaction among ANFR systems in the production, processing and management of food, fiber and fuel and sustainable use of natural resources. |  |

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.