

**Course Title: Fundamentals of Agriculture, Food, and Natural Resource Systems****Course Number: 8021300**

| <b>NGSSS Benchmark</b>                 | <b>Content Focus</b>   | <b>Number of Questions</b> | <b>Suggested Cognitive Complexity<br/>(per CPALMS)</b> |
|--|--|----------------------------|--|
| <b><i>Reporting Category 1</i></b>     |  |                            |  |
| 01.01                                  | Describe the importance of agriculture on a world, national, state and community scale.                      | 1                          | 1 level 2  |
| 01.02                                  | Distinguish the major agricultural production areas of the United States.                                    | 1                          | 1 level 2  |
| 01.03                                  | Distinguish agriculture products produced in Florida.  | 1                          | 1 level 2  |
| 01.05                                  | Demonstrate how development of new technology has affected agriculture production.                           | 1                          | 1 level 2  |
| <b><i>Reporting Category Total</i></b> |  | <b>4</b>                   |  |
| <b><i>Reporting Category 2</i></b>     |  |                            |  |
| 02.01                                  | Describe the proper handling of production animals.  |                            |  |
| 02.02                                  | Compare animal welfare and animal rights.  | 1                          | 1 level 3  |
| 02.03                                  | Explain how animal welfare and animal rights advocate groups impact production agriculture.                  | 1                          | 1 level 3  |
| 02.04                                  | Summarize animal cruelty and the consequences of cruel treatment of animals.                                 | 1                          | 1 level 2  |
| <b><i>Reporting Category Total</i></b> |  | <b>3</b>                   |  |
| <b><i>Reporting Category 3</i></b>     |  |                            |  |
| 03.01                                  | Explain the difference between breeds of dairy cattle.   | 1                          | 1 level 1  |
| 03.03                                  | Explain the safety procedures used for dairy products.   | 1                          | 1 level 3  |
| 03.05                                  | Identify the varieties of dairy products and the methods of processing.                                      | 1                          | 1 level 2  |
| <b><i>Reporting Category Total</i></b> |  | <b>3</b>                   |  |
| <b><i>Reporting Category 4</i></b>     |  |                            |  |
| 04.02                                  | Differentiate the different cuts and grading of meat.  | 1                          | 1 level 2  |
| 04.03                                  | Evaluate proper health and nutrition for livestock animals.  | 1                          | 1 level 2  |
| 04.04                                  | Demonstrate knowledge of terminology for animals based on species and condition (eg. age, sex, bred, etc...) | 1                          | 1 level 1  |
| 04.05                                  | Determine different reproduction methods, and the process of selective breeding.                             | 1                          | 1 level 2  |
| 04.06                                  | Explain how the use of biotechnology has impacted the livestock industry.                                    | 1                          | 1 level 2  |
| <b><i>Reporting Category Total</i></b> |  | <b>5</b>                   |  |
| <b><i>Reporting Category 5</i></b>     |  |                            |  |
| 05.02                                  | Differentiate proper techniques for classification and grading of poultry and poultry products.              | 1                          | 1 level 2  |
| <b><i>Reporting Category Total</i></b> |  | <b>1</b>                   |  |
| <b><i>Reporting Category 6</i></b>     |  |                            |  |
| 06.01                                  | Produce a vegetable crop.  | 1                          | 1 level 1  |

|                                     |   |   |           |
|-------------------------------------|---|---|-----------|
| 06.02                               | Compare the components of soil.   | 1 | 1 level 2 |
| 06.03                               | Perform a soil test.  |   |           |
| 06.04                               | Describe how climate can affect crop production.  | 1 | 1 level 3 |
| 06.07                               | Investigate the impact of pests on crop yields.   | 1 | 1 level 2 |
| 06.08                               | Model the safety precautions on a pesticide and fertilizer label.   | 1 | 1 level 2 |
| <i>Reporting Category Total</i>     |   | 5 |           |
| <b><i>Reporting Category 7</i></b>  |   |   |           |
| 07.01                               | Perform plant propagation.  | 1 | 1 level 2 |
| 07.03                               | Model methods for Integrated Pest Management.   | 1 | 1 level 2 |
| 07.07                               | Describe principles for plant growth.   | 1 | 1 level 3 |
| <i>Reporting Category Total</i>     |   | 3 |           |
| <b><i>Reporting Category 8</i></b>  |   |   |           |
| 08.01                               | Formulate scientifically investigable questions, construct investigations, collect and evaluate data, and develop scientific recommendations based on findings. | 1 | 1 level 2 |
| <i>Reporting Category Total</i>     |   | 1 |           |
| <b><i>Reporting Category 9</i></b>  |   |   |           |
| 09.01                               | Discuss the establishment and history of the FFA organization.  | 1 | 1 level 1 |
| 09.03                               | Demonstrate parliamentary procedure skills during a meeting.  | 1 | 1 level 2 |
| <i>Reporting Category Total</i>     |   | 2 |           |
| <b><i>Reporting Category 10</i></b> |   |   |           |
| 10.02                               | Describe personality aspects to consider when choosing a career.  | 1 | 1 level 2 |
| <i>Reporting Category Total</i>     |   | 1 |           |
| <b><i>Reporting Category 11</i></b> |   |   |           |
| 11.01                               | Apply basic mathematics operations to solve agricultural problems.  | 1 | 1 level 2 |
| 11.07                               | Apply basic mathematics operations to solve agricultural problems.  | 1 | 1 level 1 |
| <i>Reporting Category Total</i>     |   | 2 |           |
| <b><i>Reporting Category 12</i></b> |   |   |           |
| 13.03                               | Identify security issues related to Internet clients.   | 1 | 1 level 2 |
| <i>Reporting Category Total</i>     |   | 1 |           |

31 Total Questions

Overall Percentage for Written Test: 100%

Overall Percentage for Performance Tasks: \_\_\_\_\_

