

Supervised Agricultural Experience (SAE)

Exploratory/Foundational 0134.1 Describe career opportunities and means to achieve those opportunities in each of the AFNR career pathways. 0134.1.1

2 Explore and identify personal agricultural interests to create a career plan. 0134.1.2

3 Act as a responsible and contributing citizen and employee by developing key employability skills. 0134.1.3

4 Students will expand their personal financial literacy by developing a personal budget. 0134.1.4

5 Examine and summarize the importance of health, safety, and environmental management systems in AFNR workplaces. 0134.1.5

6 Analyze how issues, trends, technologies, and public policies impact systems in the AFNR career cluster. 0134.1.6

7 Job shadow a worker within the agricultural industry. 0134.1.7

8 Students will document their knowledge, skills, and plans in the Classroom 2 Career tracking system/AET. 0134.1.8

Research/Experimentation & Analysis 0134.2 **1** Investigate materials, processes, and information to establish new knowledge or the validation of previous research. 0134.2.1

2 Follow the scientific process and acceptable best practices for conducting research to ensure reliability, validity, and replicability of research. 0134.2.2

3 Exercise safety throughout all aspects of the experimental process. 0134.2.3

4 Apply the methods of the scientific method to control certain variables while manipulating others to observe the outcome. 0134.2.4

5 Complete a Research Plan which safely meets all requirements. 0134.2.5

6 Define a hypothesis. 0134.2.6

-
- 7 Determine an appropriate experimental design, conduct the research, collect the data, draw conclusions from the data and recommend further research that can be done.** 0134.2.7

 - 8 Formulate a why or how question, conduct data and collection using qualitative and/or quantitative methodologies.** 0134.2.8

 - 9 Conduct an analysis of data, facts, and other information to determine the answer to the analytical question.** 0134.2.9

 - 10 Apply the engineering design process to the invention research SAE to create a new product or service.** 0134.2.10

 - 11 Conduct peer reviews with the supervising agricultural education instructor or other professionals at multiple stages throughout the research cycle.** 0134.2.11

 - 12 Make a summary presentation of research and findings to a local committee organized by the agricultural education instructor.** 0134.2.12

 - 13 Document methods, procedures, results, analysis, and conclusions in the Classroom 2 Career tracking system/AET.** 0134.2.13
-

Ownership/Entrepreneurship **10 Create, own, and operate a business that provides goods and/or services.** 0134.3.1

- 2 Exercise safety when operating all aspects of the business.** 0134.3.2

 - 3 Make operational and risk management decisions on how goods and/or services are provided.** 0134.3.3

 - 4 Conduct an operation of sufficient scope to develop skills and abilities aligned to the AFNR standards.** 0134.3.4

 - 5 Conduct an analysis of productivity and profitability at the end of each production/business cycle; make necessary changes for improvement.** 0134.3.5

 - 6 Become familiar with common financial tools, balance sheets, income statements, inventories, and cash flow.** 0134.3.6

 - 7 Design a business plan which provides for the continued growth and expansion of the operation.** 0134.3.7

 - 8 Review and update the business plan annually to reflect the changes in the operation.** 0134.3.8

 - 9 Track and document items produced, service hours worked, income, expenses, and the knowledge and skills attained within the Classroom 2 Career tracking system/AET record book.** 0134.3.9
-

Placement 0134.4

- 1** Develop a job plan that includes considerations that promote a safe worksite and opportunities to learn on the job. 0134.4.1

- 2** Develop agriculture, food, natural resource, and employability skills and abilities outside the classroom through a hands-on job site experience. 0134.4.2

- 3** Perform an environmental safety review on yourself and your worksite. 0134.4.3

- 4** Pursue and complete the necessary safety training needed for employment in the related SAE area. 0134.4.4

- 5** Take measures to address any safety concerns identified. 0134.4.5

- 6** Perform the tasks determined by the employer which are necessary for the operation of the business. 0134.4.6

- 7** Track and document hours worked, income received, tasks completed, and the knowledge and skills attained within the Classroom 2 Career tracking system/AET record book. 0134.4.7