COURSE SYLLABUS – Principles of Agriscience and Technology
Grade Level: 9.
7th Period: 2:10 P.M. – 3:00 P.M.

Carlisle County High School  Mr. Jonathan Miles Hargrove
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TITLE:
Principles of Agriscience and Technology.

COURSE DESCRIPTION:
This course provides instruction in the foundations of the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection.

PURPOSE:
To provide students interested in pursuing a career(s) in agriculture the opportunity to explore the wide array of concepts and opportunities relevant to the industry, as well as become exposed to and develop competencies in the skills relevant to the career cluster(s).

COURSE OBJECTIVES:
To develop a broad, general understanding of the agriculture industry and the role it plays in today’s world.

CONTENT OUTLINE:
The content outline consists of a general, introductory overview of employability skills relevant to agriculture, introductory work on Supervised Agriculture Experience Program (SAEP), mathematics, communications, soil sciences, plant sciences, agricultural mechanics and construction skills, and basic environmental, food, and fiber interrelationships.

Classroom content outline MAY include, but is NOT limited to:

Unit: FFA and Agriculture Education

- Introduction to Agriculture – What is it?
- FFA/Leadership/SAE
Revised: July 2011

- SAE’s
- **FFA Creed Night**
- **Agriscience Fair/Project Completion**
- **FFA Quiz Contest**

**Unit: Plant Science**

- Soils
- Anatomy and Physiology
- Taxonomy
- Growth
- Plant Propagation
- Plant Health
- Plant Industry

**Unit: Animal Science**

- Background and Social Issues of Animal Science
- Anatomy and Physiology
- Animal Health
- Nutrition
- Reproduction
- Selection and Breeding

**Unit: Natural Resources**

- Air Quality
- Water Quality
- Wildlife
- Hunting and Fishing
- Biogeochemical cycles

**Unit: Mechanization/Structures and Design**

- Safety
- Machines
- Energy/Electricity
- Structures
- Power Tools
- Engines (troubleshooting, etc.)
- Welding and Metal Working
- Woodworking

**Unit: Food and Fiber Science**

- Handling
- Processing Animal Products
- Processing Plant Products
Revised: July 2011
*The above schedule is subject to change without notice, with time extensions or shortenings on certain subjects. Schedule is subject to school activities, closings due to weather, or other occurrences. Please refer to school handbook for further information.

**INSTRUCTIONAL ACTIVITIES:**

- Lectures.
- Demonstration.
- Field trips/clinical experiences.
- Laboratory experiments.
- Assessments.
- Daily Participation.
- Quizzes.
- Group discussions.
- Individual speeches.

**RESOURCES:**

- Guest lecturers.
- Textbooks.
- Internet.
- Local news media.
- Local school media.
- Classroom tools and resources.

**GRADING PROCEDURES:**

Letter grades will be assigned as follows:

A: 100%-90%
B: 89%-80%
C: 79%-70%
D: 69%-60%
F: Below 60%

Grades may be made on the basis of, but not limited to (students will be made aware of point values before assignments are given):

- Classroom Participation
- Daily Participation activities
- Quizzes
- Exams
- Semester/Final Exam
- Laboratory Assessments
- Research Papers, etc.
- Late Work: All students must be in compliance with the Kentucky Compulsory Attendance laws and statutes. A student who is absent for an “excused” reason will be given the opportunity to make-up the missed work, and will receive credit for any made-up work. A
student will have the same number of days to make up work as the number of days missed. A student who is absent for unexcused reasons or for disciplinary reasons will be allowed to make up work but not be given credit for it. Students who accumulate an excessive number of absences per class, may be referred to the Attendance Review Committee of each school to evaluate the student’s academic progress. After evaluation, recommendations will be made in order for the student to stay abreast academically. Missed time may be completed hour for hour depending on time missed during Extended School Services.

- **In addition to the above statement, late work will be dealt with in accordance to the classroom rules and expectations set forth. Please refer to them.**

**TEXT AND REFERENCES:**

Various – Please see instructor for details.

**PREREQUISITES:**

None.

**Principles of Agricultural Science and Technology**

*Valid KY Course # 030715*

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<table>
<thead>
<tr>
<th>NATIONAL AFNR STANDARDS</th>
<th>Content/Process statements followed by # codes in Bold = KOSSA Standards, <em>Italic = Academic Expectations</em></th>
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<tbody>
<tr>
<td>CS.03</td>
<td>Students will:</td>
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<td>• Demonstrate employability and social skills relative to the career cluster. <strong>EA001</strong>*; 1.1, 2.36, 2.38</td>
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<tr>
<td>CS.03</td>
<td>• Develop a supervised agricultural experience programs including use of record keeping. <strong>AC004</strong>; 2.13, 2.18, 3.0</td>
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<tr>
<td>CS.03</td>
<td>• Explore basic agricultural skills needed including: math, communication, and employability skills. <strong>AB001</strong>*, <strong>AC001</strong>*; 1.12, 1.9, 2.38</td>
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<tr>
<td>PS.01</td>
<td>• Identify and examine general soil and plant sciences. <strong>AC002</strong>**, <strong>AC004</strong>**, <strong>OB002</strong>****; 2.1, 2.3, 2.6</td>
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<td>AS.02</td>
<td>• Identify and examine general animal sciences. <strong>OI001</strong> 2.1, 2.3, 2.6</td>
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<td>PST.01</td>
<td>• Demonstrate basic agricultural mechanics and construction skills. <strong>AB006</strong>****, <strong>OC001</strong>****; 2.37, 2.4, 2.7</td>
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<tr>
<td>NRS.01</td>
<td>Investigate basic environmental, food and fiber interrelationships. OI002*; 2.6, 2.19, 2.20</td>
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<td>CS.03</td>
<td>Maintain records on supervised agricultural experience program and be able to summarize and analyze results in making financial decisions. OG001*; 1.11, 2.13, 2.18</td>
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<td>CS.01</td>
<td>Participate in FFA leadership activities which are integrated into the course. AA005*, AA012*; 1.12, 2.16, 2.37</td>
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**CONNECTIONS**

- PROGRAM OF STUDIES – REVISED 2006
- KENTUCKY OCCUPATIONAL SKILL STANDARDS (KOSSA)
- ACADEMIC EXPECTATIONS
- SECRETARY’S COMMISSION ON ACHIEVING NECESSARY SKILLS (SCANS)
- FFA CONNECTIONS: CDE’s, Proficiencies, Speaking Contests, etc.
- *1007 Ag Education, Communication, and Leadership Standards
- **1002 Production Agriculture Livestock
- ***1003 Production Agriculture Crop
- ****1001 Horticulture
- *****1005 Agriculture Power Structural and Technical Systems