


Cooperative Agriscience Education I


This course provides opportunities for students to utilize learned skills in a work-based learning application. Students will enter into a cooperative agreement to obtain on-the-job training experience in one of the Agriscience career clusters. Emphasis will be placed upon work ethic and skill development within the career cluster area. Communication and critical-thinking skills will also be reinforced in this course. This course is a work-based learning course. Supervised agricultural experience programs and the FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.


Prerequisite: Agriscience III (or enrolled simultaneously)


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Cooperative Agriscience Education I	Content Guideline															
<p>Louisiana Agricultural Education Related Content Standards</p>  <p><i>*All benchmarks are not marked for all Agricultural courses.</i></p>	Locating the Employer	Filling Out the Forms	Working to Accomplish the Goals													
STRAND: Agricultural Literacy K-12																
Standard: All students will become aware of the characteristics and components of the food and fiber systems.																
a. Agricultural awareness grades K-4																
b. Agricultural literacy grades 5-8																
c. Agricultural literacy grades 9-12	•	•	•													
STRAND: Personal Development																
Standard: AgEd/FFA students will develop the necessary interpersonal and communication skills to obtain a job and work effectively and safely in an interactive work environment.																
a. Agricultural communication	•	•	•													
b. Team work in agriculture	•	•	•													
c. Careers in agriculture			•													
STRAND: Agribusiness																
Standard: AgEd/FFA students will understand the concept of agricultural marketing, management, finance, and entrepreneurship.																
a. Production systems																
b. Selections from various choices			•													
c. Factors that make employees successful			•													
d. Agricultural marketing sales and services			•													
e. Economics of production			•													
f. Develop a business plan			•													

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STRAND: Biotechnology in Agriculture Standard: AgEd/FFA students will understand the concepts and principles of biotechnology and the relationships biotechnology has with the agricultural environment.																		
a. Basic concepts and applications of biotechnology			•															
b. Impacts and public issues of biotechnology			•															
c. Processes and applications affecting the plant systems			•															
d. Processes and applications affecting animal systems			•															
e. Microbial-biotechnology in agriculture			•															
STRAND: Animal Systems Standard: AgEd/FFA students will understand the concepts and principles of animal science.																		
a. Selection of livestock, poultry, and other animals			•															
b. Anatomy and physiology of livestock, poultry, and other animals			•															
c. Reproduction of livestock, poultry, and other animals			•															
d. Nutrition of livestock, poultry, and other animals																		
e. Environmental factors affecting livestock, poultry, and other animal systems			•															
f. Diseases and parasites of livestock, poultry, and other animals			•															
g. Ethical issues related to livestock, poultry, and other animal systems			•															

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<p>STRAND: Plant Systems</p>														
<p>Standard: AgEd/FFA students will understand the concepts and principles of plant science.</p>														
a. Internal processes affecting plant growth and reproduction			•											
b. External environmental factors affecting plant growth and reproduction			•											
c. Soil fertility			•											
d. Plant production			•											
e. Landscaping and floriculture			•											
f. Crops of Louisiana			•											
g. Horticultural crops of Louisiana			•											
h. Agribusiness relating to crop production			•											
<p>STRAND: Environmental Management</p>														
<p>Standard: AgEd/FFA students will develop an understanding of the interrelationship between people, agriculture, and the environment.</p>														
a. Universal impact of forestry			•											
b. Wildlife management and conservation			•											
c. Environmental quality			•											

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<p>STRAND: Agricultural Processing Standard: AgEd/FFA students will develop an understanding of the processes of distributing, grading, inspecting, processing, mixing, packaging, and storing of food and non-food products.</p>														
a. Agricultural meat processing			•											
b. Milk and dairy product processing			•											
c. Fruits and vegetable processing			•											
d. Grain crop processing			•											
e. Career awareness			•											
<p>STRAND: Agriscience Technology Standard: AgEd/FFA students will demonstrate technical skills that reflect successful business and industry practices.</p>														
a. Agriculture power and energy			•											
b. Energy sources in agriculture			•											
c. Mathematics in agriscience technology			•											
d. Agriscience welding technology			•											
e. Agricultural structures and facilities			•											

Cooperative Agriscience Education I Content Guideline

(The student will be able to. . .)

Unit One

Locating the Employer

1. Discuss the Cooperative Agriscience Education (CAE) program with the Advisory Council and interested adults.
2. Determine what businesses would be suitable for student positions.
3. Assess demands for occupations within that specific area.
4. Meet with prospective employer and instructor.
 - a. Discuss potential cooperative program for school year.
 - b. Determine benefits to student and to employer.
 - c. Set goals to be accomplished and person responsible.

Unit Two

Filling out the Forms

1. Establish a contract between all parties
 - a. Contract with employer, student, parents, and agriscience instructor.
 - b. Submit copies to principal, district supervisor, state supervisor, student and employer.
2. Submit beginning report to state supervisor and district supervisor.
3. Establish timelines for determining grades, supervisory visits and reports.
4. Submit year-end reports to all parties by the deadline on forms.

Unit Three

Working to Accomplish Goals

1. Work to accomplish goals established by all parties.
2. Develop good work ethics.
3. Develop skills in area of work.
4. Develop communication lines between employee and employer.

Resources

Louisiana Department of Education (2002). *Louisiana Cooperative Education Handbook*.

U.S. Department of Labor, Bureau of Labor Statistics. *Occupational Outlook Handbook* (2002-2003 edition, Bulletin 2540). Washington, D.C.: U.S. Government Printing Office.