

Agriscience-Leadership Development

This course will prepare individuals for agricultural careers, build awareness, and develop leadership for the food, fiber, and natural resources systems. The emphasis is on human relations, decision-making, promoting healthy lifestyles, maintaining a positive attitude, cooperative small and large group activities, and proper utilization of human resources. English, speaking skills, higher order thinking, and basic communication skills will be reinforced in this course. Work-based learning strategies appropriate for this course are service learning and field trips. Supervised agricultural experience (SAE) programs and the FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

Prerequisite: None

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Agriscience-Leadership Development		Content Guideline																
Louisiana Agricultural Education Related Content Standards 	<p>*All benchmarks are not marked for all Agricultural courses.</p>	Leadership Activities	Health Life Styles	Supervised Agricultural Experience (SAE) Programs	Positive Attitude	Career Skills	Chapter Recruitment	Financial	Public Relations	Community Relations	Economic	Natural Resources	Human Resources	Citizenship	Ag Awareness			
		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: Ag Ed /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: Ag Ed/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: Ag Ed /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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STRAND: Plant Systems														
Standard: Ag Ed /FFA students will understand the concepts and principles of plant science.														
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	•				•	•								•
STRAND: Environmental Management														
Standard: Ag Ed /FFA students will develop an understanding of the interrelationship between people, agriculture, and the environment.														
a. Universal impact of forestry								•						•
b. Wildlife management and conservation								•		•	•	•	•	•
c. Environmental quality										•				•

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

Agriscience-Leadership Development Content Guideline

(The student will be able to . . .)

Unit One Leadership Activities

1. Participate in leadership activities that develop technical, human relations, and decision-making skills to enhance personal success.
2. Attend leadership conferences such as Made for Excellence, Washington Leadership Conference, and state and national conventions.
3. Participate in public speaking events.
4. Cooperate with others in team demonstrations.
5. Participate in team and individual leadership competitions.
6. Volunteer for leadership-related activities.
7. Host international students.

Unit Two Health Life Styles

1. Develop healthy lifestyles that promote the well-being and self-esteem of the student, both mentally or physically.
2. Discuss substance abuse prevention.
3. Identify principles of personal safety.
4. Improve the personal image projection.
5. Organize and participate in recreation/leisure activities.

Unit Three Supervised Agricultural Experience (SAE) Programs

1. Participate in SAE activities that promote student involvement and growth through agriculture-related experiences and/or entrepreneurship.
2. Apply for an agricultural proficiency award.
3. Earn the highest member degree possible.
4. Determine possibilities for a world experience in agriculture.
5. Develop a personal portfolio and include records of supervised agricultural experiences.
6. Develop a fair exhibit.
7. Raise an animal for exhibition in livestock shows.

Unit Four

Positive Attitude

1. Develop a positive attitude toward lifelong learning experiences through scholarship activities.
2. Apply for the national FFA scholarship awards.
3. Volunteer as a tutor to peers.
4. Identify and select a school or college for post secondary education.

Unit Five

Career Skills

1. Develop agricultural occupation and career skills through a progressive learning environment.
2. Identify potential agricultural careers by attending a career day.
3. Determine experience and education requirements for selected careers.
4. Investigate a career area through a job shadow experiences.
5. Participate in career development events at the local high schools and at higher levels.
6. Apply scientific principles to agriculture by developing an agriscience fair project.
7. Volunteer to serve as a mentor for lower elementary students.
8. Participate in an international seminar to tour countries related to selected career area.

Unit Six

Chapter Recruitment

1. Conduct chapter recruitment activities to increase the agricultural education enrollment and/or FFA membership and encourage greater participation.
2. Create an Ag Career Day at a local middle school.
3. Conduct agricultural demonstrations for elementary and middle school classes.
4. Develop a program information brochure or newsletter.
5. Create a National FFA Week exhibit for the school.

Unit Seven

Financial

1. Participate in financial activities conducted to encourage thrift, and sound financial management among members, through earnings, savings, and investments.
2. Develop a chapter budget.
3. Complete a loan application.
4. Develop a group-purchasing program for class members.
5. Organize and conduct a chapter fund raising program.

Unit Eight

Public Relations

1. Develop public relations activities to promote a positive image, and inform students, parents, school officials, and the community about chapter and member accomplishments.
2. Organize and write newspaper articles on the agriculture program.
3. Develop a chapter scrapbook.
4. Write and present an agriculture program on local television.
5. Have members attend school board meetings, and write a report of the school board decisions.
6. Create a public relations campaign for National FFA Week.
7. Organize National Agriculture Week celebrations for the community.
8. Write and publish a chapter newsletter.
9. Organize a chapter banquet to honor organizational achievements.
10. Compete in parliamentary procedure demonstrations.

Unit Nine

Community Relations

1. Develop and maintain positive relations among FFA, parents, community leaders, and industry.
2. Develop a committee chairperson-training program.
3. Organize and conduct a chapter officer leadership retreat.
4. Plan and conduct workshops for new members on conducting meetings.
5. Organize an informational meeting with FFA alumni, agriculture boosters, and Young Farmers.
6. Make a presentation of FFA activities to Farm Bureau, Chamber of Commerce, service clubs, Extension, fair board, or parent/teacher organization.
7. Identify major agricultural industry in the area and have an industry tour guest speaker.

Unit Ten

Economic

1. Determine economic activities conducive to improve economic welfare of the community.
2. Determine how and where jobs are created.
3. Identify ways to become an agricultural entrepreneur.
4. Discuss avenues for involvement in international development.
5. Determine historically significant events or locations in the area and develop a preservation plan.
6. Determine and develop a community relations program for the agriculture department.

Unit Eleven

Natural Resources

1. Conduct environmental activities to preserve natural resources and develop more environmental responsible individuals.
2. Identify existing urban and rural conservation programs.
3. Determine local efforts to improve water and air quality.
4. Develop a producer and consumer safety program.
5. Provide a Hunter Rearm Safety Programs.
6. Evaluate current recycling programs for improvement.

Unit Twelve

Human Resources

1. Conduct human resource activities to improve the welfare and well being of citizens in the community.
2. Develop a youth mentoring program in the area.
3. Determine means for involving special populations in community activities.
4. Identify at-risk programs to prevent school dropouts.
5. Assist in presenting programs on cultural awareness and diversity.
6. Conduct a food drive.

Unit Thirteen

Citizenship

1. Conduct activities to promote and encourage members to become active, involved citizens of their community and country.
2. Identify resources for volunteers.
3. Survey the community and develop a community service project.
4. Discuss the role of a citizen and civic duties.
5. Identify potential internships with government agencies.
6. Organize a legislative breakfast.
7. Attend a local Chamber of Commerce meeting.
8. Use e-mail to contact a governmental agency for information.

Unit Fourteen

Ag Awareness

1. Conduct agricultural awareness activities to help the public become better informed about the food system and related agricultural issues.
2. Organize a "Food for America" program for elementary students.
3. Work with an "Agriculture in the Classroom" program to promote agricultural literacy and agricultural safety.
4. Conduct an All Terrain Vehicle (ATV) safety program for the parish.
5. Promote National Agricultural Day activities.

Resources

Bulletin 1690; Volume II; Louisiana Department of Education.

Bulletin 1725; Volume III; Louisiana Department of Education.

Bulletin 1926; Louisiana Department of Education.

Ricketts, Cliff (2001). *Leadership, Personal Development And Career Success*. Clifton Park, New York: Delmar Publishers.

Wallace, Harold R. and Masters, L. Ann (2001). *Personal Development for Life and Work*. Mason, Ohio: South-Western.