Days	Unit	Georgia Performance Standards
5 Days	Unit 1	AFNR-BAS-1
(and throughout the semester)	Employability Skills Standard: Demonstrate employability skills required by business and industry. The	1.1 Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.
	following elements should be integrated throughout the content of this course.	1.2 Demonstrate creativity by asking challenging questions and applying innovative procedures and methods.
		1.3 Exhibit critical thinking and problem solving skills to locate, analyze and apply information in career planning and employment situations.
		1.4 Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity.
		1.5 Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills.
		1.6 Present a professional image through appearance, behavior and language.
7 Days	Unit 2	AFNR-BAS-2
	Agricultural Education and FFA	2.1 Summarize the FFA history including a
	Standard: Relate the role of the FFA student	basic timeline of events, key people, and
	organization in the students' personal	major historical occurrences of the
	development.	organization.
		2.2 Illustrate the relationship of the FFA
		within the Agricultural Education model and
		describe the role and function of the organizational structure from the chapter to
		national level.

		<ul> <li>2.3 Interpret basic FFA information such as the emblem, colors, motto, mission, salute, behavior, and official dress.</li> <li>2.4 Demonstrate communication skills individually and within group situations by using public speaking skills and parliamentary procedure abilities.</li> <li>2.5 Design personal leadership plan that includes opportunities for personal development through student, chapter, and community related activities.</li> </ul>
7 Days	Unit 3 Agriculture in the Past, Present, and Future Standard: Recognize how agriculture meets human needs today, in the past, and for the future.	<ul> <li>AFNR-BAS-4</li> <li>4.1 Explain the three basic human needs and sources for food, clothing, and shelter.</li> <li>4.2 Define agriculture.</li> <li>4.3 Identify major agricultural milestones or inventions and analyzes their impact on modern life and agriculture.</li> <li>4.4 Describe the eight major branches of the agriculture industry.</li> <li>4.5 Determine Georgia's top 10 agricultural commodities.</li> <li>4.6 Differentiate between agricultural imports and exports and list examples of each.</li> <li>4.7 Compare and contrast between agricultural products and byproducts and lists examples of each.</li> <li>4.8 Identify the</li> </ul>
25 days	Unit 4 Livestock Terminology and Anatomy Standard: Define major components of the animal industry and outline the development	AFNR-BAS-9 9.1 Analyze the role, importance, and scope of the dairy, beef, pork, poultry, equine, and small ruminant animal industries in modern agriculture.

	of the resulting products, services, and careers.	<ul> <li>9.2 Identify and describe major breeds within each livestock segment.</li> <li>9.3 Explore the importance of alternative livestock in animal agriculture.</li> <li>9.4 Define key terminology related to animal science and production practices (fact vs. fiction).</li> <li>9.5 Distinguish between animal welfare and animal rights.</li> <li>9.6 Explain the basic anatomy and label basic external parts of production animals.</li> <li>9.7 Differentiate between major wholesale/retail meat cuts of beef, pork, lamb, and poultry and compare the value of various meat cuts.</li> <li>9.8 Analyze skills, education requirements, income, and advantages and disadvantages of careers in the animal industry and explain how they differ from traditional on-farm animal husbandry.</li> <li>9.9 Provide for the care and welfare of</li> </ul>
		animals.
3 Days	Unit 5 Standard: Determine and illustrate safety in the agriculture lab and agriculture worksites.	<ul> <li>AFNR-BAS-5</li> <li>5.1 Identify hazards in agricultural education labs and work sites.</li> <li>5.2 Select safety equipment and procedures for various agriculture related activities.</li> <li>5.3 Discuss the importance of safety in agricultural occupations.</li> <li>5.4 Demonstrate safety procedures and appropriate behavior while working in the agriculture classroom, labs, and/or work sites.</li> </ul>
10 days	Unit 6	AFNR-BAS-7

	Standard: Demonstrate knowledge of physics	7.1 Explain the areas of physics used in
	used in agriculture as it relates to work,	agriscience as it relates to work, power,
	power, simple machines, and both past and	simple machines and mechanical advantage.
	present machinery used in the agricultural	7.2 Analyze the use of thermal energy,
	industry.	electrical energy and compression in
		agriculture and describe basic principles of
		each.
		7.3 Trace the development of agricultural
		machinery.
		7.4 Interpret service manuals to develop
		tractor or lawn mower maintenance
		calendars and perform basic service and
		maintenance recommendations on a tractor
		or lawn mower.
		7.5 Demonstrate safe operating instructions
		and procedures for a tractor or lawn
		equipment as recommended by the
		manufacturer.
		7.6 Analyze skills, education requirements,
		income, and advantages and disadvantages
		of careers in the agricultural mechanics
		industry.
		7.7 Plan and construct basic Agricultural
		Mechanics project.
5 Days	Unit 7	6.1 Describe soil formation and soil
	Standard: Describe soil formation and	composition.
	management and assess its relevance to	6.2 Differentiate between soil components.
	plant/animal production and natural	6.3 Explain the importance of soil
	resources management.	ecosystems.
		6.4 Analyze the importance of slope, soil
		texture, erosion, and water movement in
		determining land capability and land use.

		<ul> <li>6.5 Determine land class on a given site and select appropriate soil management practices.</li> <li>6.6 Analyze skills, education requirements, income, and advantages and disadvantages of careers in agronomy.</li> </ul>
10 Days	Unit 8 Standard: Explain and demonstrate basic plant science principles including plant health, growth and reproduction.	<ul> <li>AFNR-BAS-13</li> <li>13.1 Describe basic factors in plant growth.</li> <li>13.2 Identify plant life cycles and list examples.</li> <li>13.3 Label the major parts of the plant and explain functions of each plant part.</li> <li>13.4 Compare and contrast photosynthesis, respiration, and transpiration and state their importance.</li> <li>13.5 Identify important floriculture and nursery/landscape plants utilized in Georgia.</li> <li>13.6 Explain the roles of essential plant nutrients for plant growth and reproduction.</li> <li>13.7 Debate the use of organic and inorganic fertilizers in plant production.</li> <li>13.8 Illustrate and demonstrate sexual and asexual methods of various plant propagation techniques.</li> <li>13.9 Sequence the steps of pollination and fertilization.</li> <li>13.10 Demonstrate scarification, stratification, and planting seeds.</li> <li>13.11 Outline germination steps and list conditions under which germination occurs.</li> <li>13.12 Analyze skills, education requirements, income, and advantages and disadvantages of careers in the plant science industry.</li> </ul>

10 Days	Unit 9	AFNR-BAS-10
	Standard: Demonstrate basic skills in natural	10.1 Describe the importance of the forestry
	resource management.	and natural resource industry to Georgia's
		economy.
		10.2 Label various parts of trees and explain
		their functions.
		10.3 Demonstrate the ability to measure
		forest products and forest related items.
		10.4 Identify basic equipment used in
		forestry.
		10.5 Identify important species of trees and wildlife in Georgia.
		10.6 Explain the relationship between wildlife and the environment.
		10.7 Compare and contrast approved
		practices in managing wildlife.
		10.8 Analyze skills, education requirements,
		income, and advantages and disadvantages
		of careers in the forest and natural resources
		industry.
10 Days	Unit 10	AFNR-BAS-8
	Standard: Identify the different areas of	8.1 Define biotechnology and create a
	agriscience and relate the scientific	timeline of biotechnology milestones.
	classification system to organize and research	8.2 Explain the importance of the scientific
	the agriscience field.	method in agriculture and list examples of
		current agriculture research.
		8.3 Design, implement, collect data, and
		determine conclusions by conducting
		scientific experiments in any field of
		agriculture.
		8.4 Research and report current agricultural
		biotechnology events or products.

8.5 Analyze skills, education requirements,
income, and advantages and disadvantages
of careers in agriscience/biotechnology fields