

**Cameron R-1 Scope and Sequence**  
**Grade Level/Course: 11-12 Animal Science**  
**(CD 016711, CIP 01.0901)**

Quarter 1							
Days/ Weeks	1 Week	1 Week	1 Week	2 Weeks	1 Week	1 Week	2 Weeks
Name of Unit	<u>SAE</u> (Income/Expense & Leadership Pages)	<u>Animal Science</u> (Dairy Cattle Breeds)	<u>Animal Science</u> (Dairy Cattle Science)	<u>Animal Science</u> (Dairy Cattle Evaluation)	<u>Animal Science</u> (Poultry Breeds)	<u>Animal Science</u> (Poultry Science)	<u>Animal Science</u> (Poultry Evaluation)
Priority Standards	<ul style="list-style-type: none"> <li>-Analyze and evaluate SAE program and record keeping procedures.</li> <li>-Incorporate agribusiness skills within a SAE project.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> <li>-Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> <li>-Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> <li>-Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> <li>-Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.</li> </ul>
Supporting Standards	<ul style="list-style-type: none"> <li>-Complete inventory and financial statement forms</li> <li>-Complete receipt and expenditure forms</li> <li>-Complete additional forms</li> <li>-Complete summary forms</li> <li>-Complete the analysis forms</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the importance of the animal industry in Missouri.</li> <li>-Identify the major breeds of identified species and their significance to the industry</li> </ul>	<ul style="list-style-type: none"> <li>-Develop a herd health program</li> <li>-Identify management factors important to profitable livestock production.</li> <li>-Identify local, state and federal regulations, as they</li> </ul>	<ul style="list-style-type: none"> <li>-Compare various animal species production systems.</li> <li>-Identify management factors important to profitable livestock production.</li> <li>-Define the role of genetics in reproduction.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the importance of the animal industry in Missouri.</li> <li>-Identify the major breeds of identified species and their significance to the industry</li> </ul>	<ul style="list-style-type: none"> <li>-Develop a herd health program</li> <li>-Identify management factors important to profitable livestock production.</li> <li>-Identify local, state and federal regulations, as they</li> </ul>	<ul style="list-style-type: none"> <li>-Compare various animal species production systems.</li> <li>-Identify management factors important to profitable livestock production.</li> <li>-Define the role of genetics in reproduction.</li> </ul>

	<p>-Analyze and evaluate the SAE program</p>	<p>-Compare various animal species production systems.</p>	<p>apply to animal production</p> <p>-Evaluate issues of concern to the livestock industry</p> <p>-Describe the parts and functions of the ruminant digestive system.</p> <p>-Identify the importance of maintaining the nutritional needs of the animal</p> <p>-Identify how the nutritional needs of animals may be met.</p> <p>-Demonstrate the procedure for balancing a ration for crude protein.</p> <p>-Explain the purpose of male reproduction parts and hormones.</p> <p>-Explain the purpose of female reproduction parts and hormones.</p> <p>-Explain the role of puberty and the estrous cycle in reproduction.</p> <p>-Describe conception and gestation</p> <p>-Identify the important factors of parturition.</p>	<p>-Compare management practices for genetic improvement.</p>	<p>-Compare various animal species production systems.</p>	<p>apply to animal production</p> <p>-Evaluate issues of concern to the livestock industry</p> <p>-Describe the parts and functions of the monogastric digestive system</p> <p>-Identify the importance of maintaining the nutritional needs of the animal</p> <p>-Identify how the nutritional needs of animals may be met.</p> <p>-Demonstrate the procedure for balancing a ration for crude protein.</p> <p>-Explain the purpose of male reproduction parts and hormones.</p> <p>-Explain the purpose of female reproduction parts and hormones.</p> <p>-Explain the role of puberty and the estrous cycle in reproduction.</p> <p>-Describe conception and gestation</p> <p>-Identify the important factors of parturition.</p>	<p>-Compare management practices for genetic improvement.</p>
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			<div>-Define the role of genetics in reproduction.</div> <div>-Compare management practices for genetic improvement.</div>			<div>-Define the role of genetics in reproduction.</div> <div>-Compare management practices for genetic improvement.</div>	
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Key:

Priority Standard

Supporting Standard

## Quarter 2

Days/ Weeks	1 Week	1 Week	2 Weeks	1 Week	1 Week	1 Week	2 Weeks
Name of Unit	<u>Animal Science</u> (Equine Breeds)	<u>Animal Science</u> (Equine Science)	<u>Animal Science</u> (Equine Evaluation)	<u>Animal Science</u> (Equine Bits and Saddles)	<u>Animal Science</u> (Equine Facilities)	<u>Animal Science</u> (Dairy and Poultry Facilities)	<u>SAE</u> (Record Books, Proficiency Apps, & State Degrees)
Priority Standards	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> <li>-Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.</li> </ul>	<ul style="list-style-type: none"> <li>-Describe the economic impact, types, and management practices within the animal industry in the community and state.</li> <li>-Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.</li> </ul>	<ul style="list-style-type: none"> <li>-Assess livestock facility needs by devising a plan.</li> </ul>	<ul style="list-style-type: none"> <li>-Assess livestock facility needs by devising a plan.</li> </ul>	<ul style="list-style-type: none"> <li>-Assess livestock facility needs by devising a plan.</li> </ul>	<ul style="list-style-type: none"> <li>-Analyze and evaluate SAE program and record keeping procedures.</li> <li>-Incorporate agribusiness skills within a SAE project.</li> </ul>
Supporting Standards	<ul style="list-style-type: none"> <li>-Describe the importance of the animal industry in Missouri.</li> <li>-Identify the major breeds of identified species and their significance to the industry</li> <li>-Compare various animal species production systems.</li> </ul>	<ul style="list-style-type: none"> <li>-Develop a herd health program</li> <li>-Identify management factors important to profitable livestock production.</li> <li>-Identify local, state and federal regulations, as they apply to animal production</li> <li>-Evaluate issues of concern to the livestock industry</li> </ul>	<ul style="list-style-type: none"> <li>-Compare various animal species production systems.</li> <li>-Identify management factors important to profitable livestock production.</li> <li>-Define the role of genetics in reproduction.</li> <li>-Compare management practices for genetic improvement.</li> </ul>	<ul style="list-style-type: none"> <li>-Identify facility needs for horses</li> </ul>	<ul style="list-style-type: none"> <li>-Identify facility needs for horses</li> </ul>	<ul style="list-style-type: none"> <li>-Identify facility needs for dairy cattle.</li> <li>-Identify facility needs for poultry.</li> </ul>	<ul style="list-style-type: none"> <li>-Complete inventory and financial statement forms</li> <li>-Complete receipt and expenditure forms</li> <li>-Complete additional forms</li> <li>-Complete summary forms</li> <li>-Complete the analysis forms</li> <li>-Analyze and evaluate the SAE program</li> <li>-Identify awards that may be earned as a</li> </ul>

		<ul style="list-style-type: none"> <li>-Describe the parts and functions of the monogastric digestive system</li> <li>-Identify the importance of maintaining the nutritional needs of the animal</li> <li>-Identify how the nutritional needs of animals may be met.</li> <li>-Demonstrate the procedure for balancing a ration for crude protein.</li> <li>-Explain the purpose of male reproduction parts and hormones.</li> <li>-Explain the purpose of female reproduction parts and hormones.</li> <li>-Explain the role of puberty and the estrous cycle in reproduction.</li> <li>-Describe conception and gestation</li> <li>-Identify the important factors of parturition.</li> <li>-Define the role of genetics in reproduction.</li> </ul>					<ul style="list-style-type: none"> <li>result of the SAE program.</li> </ul>
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		-Compare management practices for genetic improvement.					
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Key:    Priority Standard    Supporting Standard

## Quarter 3

Days/ Weeks	2 Weeks	1 Week	1 Week	1 Week	1 Week	1 Week	2 Weeks	
Name of Unit	<u>SAE</u> (Record Books, Proficiency Apps, & State Degrees)	<u>Leadership &amp; Personal Development</u> (Extemporaneous Public Speaking)	<u>Leadership &amp; Personal Development</u> (Employment Skills)	<u>Leadership &amp; Personal Development</u> (Advanced Public Speaking)	<u>Animal Science</u> (Cattle, Sheep, Goat, & Pig Breeds)	<u>Animal Science</u> (Cattle, Sheep, Goat, & Pig Science)	<u>Animal Science</u> (Cattle, Sheep, Goat, & Pig Evaluation)	
Priority Standards	-Analyze and evaluate SAE program and record keeping procedures. -Incorporate agribusiness skills within a SAE project.	-Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers. -Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	-Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers. -Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	-Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers. -Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	-Describe the economic impact, types, and management practices within the animal industry in the community and state.	-Describe the economic impact, types, and management practices within the animal industry in the community and state.  -Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.	-Describe the economic impact, types, and management practices within the animal industry in the community and state.  -Compare and contrast the body systems (digestive and reproductive) of different animal species important to Missouri.	
Supporting Standards	-Complete inventory and financial statement forms -Complete receipt and expenditure forms -Complete additional forms -Complete summary forms -Complete the analysis forms -Analyze and evaluate the SAE program	-Apply good decision-making skills and problem solving in classwork. -Describe how to develop a positive work attitude. -Describe how to receive and give criticism. -Use goals to plan projects and solve problems. -Develop stress management techniques.	-Apply good decision-making skills and problem solving in classwork. -Describe how to develop a positive work attitude. -Describe how to develop positive workplace relationships. -Describe how to receive and give criticism. -Describe what is considered to be	-Apply good decision-making skills and problem solving in classwork. -Describe how to develop a positive work attitude. -Describe how to receive and give criticism. -Use goals to plan projects and solve problems. -Develop stress management techniques.	-Apply good decision-making skills and problem solving in classwork. -Describe how to develop a positive work attitude. -Describe how to receive and give criticism. -Use goals to plan projects and solve problems. -Develop stress management techniques.	-Describe the importance of the animal industry in Missouri.  -Identify the major breeds of identified species and their significance to the industry  -Compare various animal species production systems.	-Develop a herd health program  -Identify management factors important to profitable livestock production.  -Identify local, state and federal regulations, as they apply to animal production  -Compare various animal species production systems.	-Compare various animal species production systems.  -Identify management factors important to profitable livestock production.  -Define the role of genetics in reproduction.  -Compare management

	<ul style="list-style-type: none"> <li>-Identify awards that may be earned as a result of the SAE program.</li> </ul>		<ul style="list-style-type: none"> <li>ethical behavior in the workplace.</li> <li>-Use goals to plan projects and solve problems.</li> <li>-Develop stress management techniques.</li> <li>-Develop a plan for finding a job.</li> </ul>			<ul style="list-style-type: none"> <li>-Evaluate issues of concern to the livestock industry</li> <li>-Describe the parts and functions of the monogastric digestive system</li> <li>-Describe the parts and functions of the ruminant digestive system.</li> <li>-Identify the importance of maintaining the nutritional needs of the animal</li> <li>-Identify how the nutritional needs of animals may be met.</li> <li>-Demonstrate the procedure for balancing a ration for crude protein.</li> <li>-Explain the purpose of male reproduction parts and hormones.</li> <li>-Explain the purpose of female reproduction parts and hormones.</li> <li>-Explain the role of puberty and the estrous cycle in reproduction.</li> <li>-Describe conception and gestation</li> </ul>	practices for genetic improvement.
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						<div>-Identify the important factors of parturition.</div> <div>-Define the role of genetics in reproduction.</div> <div>-Compare management practices for genetic improvement.</div>	
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Key:

Priority Standard

Supporting Standard

## Quarter 4

Days/ Weeks	1 Week	1 Week	2 Weeks	2 Weeks	1 Week	1 Week	1 Week
Name of Unit	<b><u>Animal Science</u></b> <b>(Cattle, Sheep, Goat, &amp; Pig Facilities)</b>	<b><u>Animal Science</u></b> <b>(Fencing)</b>	<b><u>Animal Science</u></b> <b>(Nutrition)</b>	<b><u>Leadership &amp; Personal Development</u></b> <b>(State FFA Convention &amp; State Trapshoot)</b>	<b><u>Leadership &amp; Personal Development</u></b> <b>(FFA Banquet Planning)</b>	<b><u>Animal Science</u></b> <b>(Animal Care and Ethics)</b>	<b><u>SAE</u></b> <b>(Income/Expense &amp; Leadership Pages)</b>
Priority Standards	-Assess livestock facility needs by devising a plan.	-Assess livestock facility needs by devising a plan.	-Demonstrate an understanding of livestock nutrition, health, reproduction, management, and marketing.	-Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers.  -Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	-Develop communication, problem-solving, decision-making, and leadership skills to further prepare for chosen AFNR careers  -Create a plan for developing skills and competencies needed to secure a job in their chosen AFNR career.	-Demonstrate an understanding of livestock nutrition, health, reproduction, management, and marketing.	-Analyze and evaluate SAE program and record keeping procedures.  -Incorporate agribusiness skills within a SAE project.
Supporting Standards	-Identify facility needs for beef cattle.  -Identify facility needs for swine.  -Identify facility needs for sheep.	-Identify facility needs for beef cattle.  -Identify facility needs for swine.  -Identify facility needs for sheep.	-Identify feeding options for livestock and poultry  -Develop a feeding program.	-Apply good decision-making skills and problem solving in classwork.  -Evaluate individual progress toward achieving personal goals.  -Demonstrate the ability to work as a team.	-Demonstrate the ability to work as a team.  -Describe how to develop a positive work attitude.  -Describe how to receive and give criticism.  -Use goals to plan projects and solve problems.	-Identify common problems associated with beef and dairy herd health.  -Develop a health plan for beef and dairy cattle.  -Identify common problems associated with swine herd health.  -Develop a health plan for swine.	-Complete inventory and financial statement forms  -Complete receipt and expenditure forms  -Complete additional forms  -Complete summary forms  -Complete the analysis forms

				<div>-Use goals to plan projects and solve problems.</div> <div>-Develop stress management techniques.</div> <div>-Develop a plan for finding a job.</div>	<div>-Develop stress management techniques</div>	<div>-Identify problems associated with sheep flock health.</div> <div>-Develop a flock health plan for sheep.</div> <div>-Identify problems associated with horse herd health</div> <div>-Develop a health plan for horses.</div> <div>-Identify common problems associated with poultry flock health.</div> <div>-Develop a health plan for poultry.</div>	<div>-Analyze and evaluate the SAE program</div>
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Key:

Priority Standard

Supporting Standard