

3/18/2025

DATE



REQUIRED COURSE



ELECTIVE COURSE

AGR

DIVISION



NEW COURSE



REVISION

# Lake Land College

## Course Information Form

<b>COURSE NUMBER:</b>	AGR-065	<b>TITLE: (30 Characters Max)</b>	AI Management-Cattle										
<b>SEM CR HRS:</b>	1.5	<b>Lecture:</b>	1.0	<b>Lab:</b>	1.0	<b>ICCB Lab:</b>	1.0	<b>ECH:</b>	2.0				
<b>Course Level:</b>	<input type="checkbox"/> Gen Ed/IAI <input type="checkbox"/> Baccalaureate/Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/Not in Degree Audit		<b>Clinical Practicum:</b>	0.0	<b>Work-based Learning:</b>	0.0	<b>WBL ECH:</b>	0.0			
<b>Course PCS &amp; CIP:</b>	12 - 01.0302		<b>IAI Code:</b>	N/A			<b>Contact Hours (Minutes/Week)</b>						
<b>Repeatable (Y/N):</b>	N	<b>Pass/Fail (Y/N):</b>	N	<b>Variable Credit (Y/N):</b>	N	<b>Min:</b>		<b>Max:</b>		<b>16 Wks</b>	100	<b>8 Wks</b>	200
<b>Prerequisites:</b>	None												
<b>Corequisites:</b>	None												
<b>Catalog Description: (40 Word Limit)</b>	Provide a basic understanding of reproductive physiology and trains individuals to artificially inseminate beef or dairy cattle. Explains and gives hands-on experience in actual insemination producers.												

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Anatomy and physiology of reproduction	2	3		
Heat detection	2	1		
Heat synchronization	2	1		
Straw insemination procedure	3	8		
Maintaining records	1	0		
Herd health	1	0		
Selecting beef and dairy sires	2	1		
Facilities and equipment	2	1		
<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>0</b>

### EVALUATION

<b>QUIZZES</b>	<input type="checkbox"/>	<b>EXAMS</b>	<input type="checkbox"/>	<b>ORAL PRES</b>	<input type="checkbox"/>	<b>PAPERS</b>	<input type="checkbox"/>
<b>LAB WORK</b>	<input checked="" type="checkbox"/>	<b>PROJECTS</b>	<input type="checkbox"/>	<b>COMP FINAL</b>	<input checked="" type="checkbox"/>	<b>OTHER</b>	<input type="checkbox"/>

### COURSE MATERIALS

<b>TITLE:</b>	No Textbook Required	
<b>AUTHOR:</b>		
<b>PUBLISHER:</b>		
<b>VOLUME/EDITION/URL:</b>		
<b>COPYRIGHT DATE:</b>		

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Anatomy and physiology of reproduction	5	1. Identify the physiology of both male and female anatomy, hormones that are released and the sequence of events released.
Heat detection	3	1. Identify the symptoms of heat, duration of heat and value of accurate heat detection.
Heat synchronization	3	1. Summarize heat synchronization, the methods of synchronization and the necessary management for a synchronization program.
Straw insemination procedure	11	1. List necessary equipment and outline the thawing procedure of semen, loading the semen, locating the cervix through palpation, identifying the target and depositing the semen.
Maintaining records	1	1. Demonstrate the use of beef and dairy records, including record keeping systems.

Herd health	1	1. Discuss the value of maintaining herd health, detecting infertility, preventing short cycles and develop a herd health management program.
Selecting beef and dairy sires	3	1. Explain genetics and heritability, use sire directories, measure genetic change and define general herd improvement.
Facilities and equipment	3	1. Describe the necessary facilities for heat detection, synchronization, vaccination and artificial insemination. 2. Evaluate cryogenic containers and AI kits.
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Outcomes*	Outcome Titles	At the successful completion of this course, students will be able to:
Course Outcome 1	Anatomy Hormones	Identify the physiology of both male and female anatomy, hormones that are released and the sequence of events during estrous.
Course Outcome 2	Heat	Determine symptoms of heat, duration of heat and value of accurate heat detection.
Course Outcome 3	AI Equipment	Recommend the necessary equipment for bovine AI and outline the thawing procedure of semen, loading the semen, locating the cervix, identifying the target and depositing the bovine semen.
Primary Laker Learning Competency Scientific Literacy: Students apply the scientific process to real-life situations.		
Secondary Laker Learning Competency Creative Thinking & Problem Solving: Students think creatively to solve problems.		

\*Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency.