




AGSC 3510 – APPLIED REPRODUCTION IN LIVESTOCK & HORSES LAB

W 2:00-4:50 PM, Valley Farm or Science Center 122/127
Spring Semester 2011



INSTRUCTOR: Chad L. Gasser, Ph.D.
Office: GC 203A
Phone: 586-7923
E-mail: gasser@suu.edu

OFFICE HOURS: MWF 9:30-10:30 AM
TR 8:30-9:30 AM
Other times as needed

COURSE DESCRIPTION: This laboratory course is designed to complement the lecture course by providing hands-on learning experience with reproductive processes and management in livestock and horses.

CO-REQUISITE: AGSC 3500

COURSE OBJECTIVES: Students will be able to...

- Examine, identify, and compare the anatomical features of male and female reproductive organs and tissues among livestock and horses.
- Observe and gain hands-on experience in the application of reproductive principles, concepts, and technology to the management of reproduction in live animals.

TEXTBOOK: Applied Animal Reproduction, Sixth Edition, H. Joe Bearden, John W. Fuquay, and Scott T. Willard, ISBN: 0131128310. This textbook is on reserve in the library, where it can be checked out for two hours at a time.

PROJECTED LABORATORY SCHEDULE:

DATE	TOPIC / ACTIVITY	LOCATION
Jan 12	NO LAB	
Jan 19	Reproductive health - Brucellosis vaccination in heifers	Valley Farm
Jan 26	Pregnancy diagnosis in cows	Valley Farm
Feb 2	Female reproductive tract dissection	SC 122
Feb 9	Pregnancy diagnosis in ewes	Valley Farm
Feb 16	Breeding soundness examination in bulls or rams	Valley Farm
Feb 23	Male reproductive tract dissection	SC 122
Mar 2	Pregnant female reproductive tract dissection	SC 122
Mar 9	Breeding soundness examination in heifers	Valley Farm
Mar 16	NO LAB – Spring Break	
Mar 23	Parturition management in cattle and sheep	Valley Farm
Mar 30	Processing lambs and sorting ewes	Valley Farm
Apr 6	Swine reproductive management – Circle 4 Farms tour	Milford, UT
Apr 13	Processing calves	Valley Farm
Apr 20	Research paper presentations	SC 127
Apr 27	Estrus detection, AI, and ET in cattle	Valley Farm

GRADING:

Laboratory Sessions

280 points

- 14 sessions, 20 points each
- Grade determined from attendance, participation, and exercises
- Half credit (10 points) may be earned for missed lab sessions by completing an abstract on an article related to the lab topic (instructions attached)

Grades will be determined according to the following percentage scale:

A	A-	B+	B	B-	C+	C	C-	D+	D
93.0%	90.0%	87.0%	83.0%	80.0%	77.0%	73.0%	70.0%	67.0%	60.0%

ATTENDANCE POLICY: Students are responsible for attendance at all laboratory sessions. Due to the nature of the laboratory activities, attendance and participation are primary components of the grade, as indicated above.

STUDENT SAFETY: Laboratory activities with animals and equipment may involve inherent risks of personal injury. The instructor and other farm personnel will use and demonstrate appropriate safety precautions during activities. Students are expected to avoid careless behavior that could endanger themselves and others. Disregard for safety may result in a lower grade or dismissal from the course. By enrolling in this course, students assume all associated risks. The instructor and SUU do not assume liability for injury or harm to students connected with this course.

STUDENT ATTIRE: Students are expected to dress appropriately to fully participate in all laboratory activities, which include working with tissue specimens and live animals with the chance of getting dirty. Inappropriate clothing is not an acceptable reason for not participating. Because many of the activities will occur outdoors, students should also come prepared for cold and poor weather conditions when appropriate.

TREATMENT OF ANIMALS: Students are expected to treat animals with proper respect at all times. Animals used in this course are covered by protocols under the SUU Institutional Animal Care and Use Committee. Guidelines for animal care and use for research and teaching will be followed. Decisions regarding proper animal care and use should be made in conjunction with the instructor. Failure to comply may result in a lower grade or dismissal from the course.

ACADEMIC INTEGRITY: Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior.

ADA STATEMENT: Students with medical, psychological, learning or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the Southern Utah University Coordinator of Services for Students with Disabilities (SSD), in Room 206F of the Sharwan Smith Center or phone (435) 865-8022. SSD determines eligibility for and authorizes the provision of services.

EMERGENCY MANAGEMENT STATEMENT: In case of emergency, the University's Emergency Notification System (ENS) will be activated. Students are encouraged to maintain updated contact information using the link on the homepage of the mySUU portal. In addition, students are encouraged to familiarize themselves with the Emergency Response Protocols posted in each classroom. Detailed information about the University's emergency management plan can be found at <http://www.suu.edu/emergency>.

HEOA COMPLIANCE STATEMENT: The sharing of copyrighted material through peer-to-peer (P2P) file sharing, except as provided under U.S. copyright law, is prohibited by law. Detailed information can be found at <http://www.suu.edu/it/p2p-student-notice.html>.

Information contained in this syllabus, other than the grading, late assignments, makeup work, and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor.

LABORATORY SESSION MAKEUP ABSTRACT INSTRUCTIONS

To earn half credit for a missed lab session, you may write an abstract on an article related to the topic/activity of the missed lab. The article can be from a scientific journal, industry magazine, extension publication, or other similar publication.

Abstracts should be written according to the following format.

- Typewritten in an easily readable font
- No more than 2 pages
- List the full reference for the article (authors, title, source, date, volume, pages, etc.)
- Write a brief summary of the article. For a research article describe the objectives, basic procedures, results, and conclusions. For other types of articles describe the major points and arguments. This should be in your own words, not copied directly from the article.
- Write a personal response to the article. This should include things such as what you learned from the article, strengths and weaknesses of the article, why you agree or disagree with the article, further questions you may have related to the article, etc.
- Include a copy of at least the first page of the article with the abstract, or submit an electronic copy of the article through e-mail.

Resources

The research paper instructions section of the AGSC 3500 syllabus contains information for locating journal articles. Below are a few resources that may be helpful in locating industry articles. A general internet search can also be helpful in locating sources of articles.

- American Sheep Industry Association (www.sheepusa.org)
- BEEF Cow-calf (www.beefcowcalf.com)
- BEEF Magazine (beefmagazine.com)
- Cattle Network (www.cattlenetwork.com)
- Cooperative Extension System (www.extension.org)
- Drovers Magazine (www.drovers.com)
- National Cattleman's Beef Association (www.beefusa.org)
- Sheep! Magazine (www.sheepmagazine.com)
- U.S. Department of Agriculture (www.usda.gov)