

ANSC 433: REPRODUCTION IN FARM ANIMALS

Fall Syllabus 2012

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Office Hours: Tuesday 2:00-4:00 pm, Wednesday 9:00-11:00 am, and by appointment			
Instructor: Ashley Keith	405	512-818-5476	akeith76@tamu.edu

Welcome to ANSC 433!

Our goal is to enhance your understanding of animal reproduction and your ability to apply this knowledge in reproductive management. At the start of this course, we expect that you:

- Have a basic understanding of Biology
- Have an interest in farm animals
- Have attained Junior classification

Your successful completion of this course will result in the following learning outcomes:

- Knowledge of the principles of reproduction including anatomy, physiology, endocrinology, gamete production, fertilization, pregnancy, parturition, and reproductive disease.
- An understanding of the practical skills involved in semen collection and evaluation, estrus detection, artificial insemination, estrus synchronization, embryo transfer and genetic manipulation, pregnancy determination, control of parturition and reproductive management.

Required Text: Pathways to Pregnancy and Parturition, Senger, 3rd Ed.

Lab Manual: A Laboratory Manual for Animal Reproduction, 4th Ed., Sorensen

Homepage: <http://animalscience.tamu.edu/anasc/433/repro/index.html> (Password: _____)

***eLearning Vista:** <http://elearning.tamu.edu/> (Password= your NEO password)

Copies of Lab Notes are available at Copy Corner

Lecture and Laboratory Sessions:

<u>Section</u>	<u>Lecture - 113 Kleberg</u>	<u>Lab - 016A Kleberg</u>
501	T, R 9:35-10:25	M 12:40-2:30
502	“	3:00-4:50
503	“	T 1:00-2:50
504	“	3:00-4:50
505	“	W 12:40-2:30
506	“	R 1:00-2:50
507	“	3:00-4:50

- Lecture:** Consists of three 1-hr exams, a comprehensive final exam and periodic lecture quizzes. You will have 11 lecture quizzes worth 10 points each. Any points that exceed the 100 point allotment for quiz grades will be considered extra credit points. (There is **NO** make-up for the lecture quiz. If you miss a lecture quiz due a University excused absence, then your lecture quiz total will be based upon the percentage of the remaining lecture quizzes). – If you must miss an exam due to an excused absence (as defined by University Regulations), arrangements **MUST** be made in **ADVANCE** with Dr. Forrest to take the exam. Otherwise, an exam missed due to an excused absence will require permission to take a comprehensive make-up exam on **Tuesday, December 6th**.
- Lab:** Consists of a lab practical, lab final, written assignment (Snake Oil v Science), and weekly quizzes. You will take 10 lab quizzes that are worth 10 points each. Any points that exceed the 90 point allotment for lab quiz grades will be considered extra credit points. Weekly lab reviews are held Friday at 3 PM in KLCT 016A.
- Attendance:** Seating assignments will be used to record your attendance.

GRADING SYSTEM

<u>LECTURE</u>	<u>Possible Points</u>	<u>Your Points</u>
EXAM A	100	_____
EXAM B	100	_____
EXAM C	100	_____
Quizzes	100	_____
*Lecture Final	100	_____

Lecture Quiz Points

1	2	3	4	5	6	7	8	9	10	11

<u>LAB</u>	<u>Possible Points</u>	<u>Your Points</u>
Lab Practical	45	_____
Lab Final	45	_____
Snake Oil Assign.	20	_____
Quizzes	90	_____

Lab Quiz Points

1	2	3	4	5	6	7	8	9	10

EXTRA CREDIT

Field Trip	10	_____
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*Final exam will be optional for students with no more than one unexcused absence during the course.

Grade without the Lecture Final

A ≥ 539.5 points
 539.5 > B ≥ 479.5
 479.5 > C ≥ 419.5
 419.5 > D ≥ 359.5
 F < 359.5

(Grades are calculated out of 600 points)

Grade with the Lecture Final

A ≥ 629.5 points
 629.5 > B ≥ 559.5
 559.5 > C ≥ 489.5
 489.5 > D ≥ 419.5
 F < 419.5

(Grades are calculated out of 700 points)

**ANSC 433 - LECTURE
FALL 2012**

<u>WEEK</u>	<u>DATE</u>	<u>TOPIC</u>	<u>CHAPTER</u>
1	Aug. 28	Introduction	1
	Aug. 30	Male Reproductive System	3
2	Sept. 4	Male Reproductive System	3
	Sept. 6	Breeding Soundness Evaluation	10 & 11
3	Sept. 11	Female Reproductive Tract	2
	Sept. 13	Female Reproductive Tract	2
4	Sept. 18	Embryogenesis of Reproductive Systems	4
	Sept. 20	Regulation of Reproduction	5
5	Sept. 25	Regulation of Reproduction	5
	Sept. 27	EXAM A	
6	Oct. 2	Onset of Puberty	6
	Oct. 4	Estrous Cycle	7
7	Oct. 9	Follicular Phase of Cycle	8
	Oct. 11	Ovulation	8
8	Oct. 16	Luteal Phase of Cycle	9
	Oct. 18	Control of Estrus & Ovulation	9
9	Oct. 23	Semen Processing and AI	10 & 12
	Oct. 25	EXAM B	
10	Oct. 30	Endocrinology of Male & Spermatogenesis	10
	Nov. 1	Reproductive Behavior	11
11	Nov. 6	Sperm Transport, Capacitation & Fertilization	12
	Nov. 8	Early Embryogenesis & Pregnancy Recognition	13
12	Nov. 13	Embryo Transfer	13
	Nov. 15	Assisted Reproductive Technologies	13
13	Nov. 20	Placentation & Gestation	14
	Nov. 22	THANKSGIVING HOLIDAY!	
14	Nov. 27	Exam C	
	Nov. 29	Control of Parturition	14
15	Dec. 4	Puerperium	15
	Dec. 6	No Class – Reading Day	
	Dec. 7	Final Exam – 12:30 – 2:30 p.m.	

**ANSC 433 - LABORATORY
FALL 2012**

<u>WEEK</u>	<u>DATE</u>	<u>TOPIC</u>	<u>LOCATION</u>	<u>Lab Manual</u>
1	Aug. 27- Aug. 30	Intro – Meet with Instructors	KLCT 016A	
2	Sept. 3 – 6	Female Macro & Micro Anatomy	KLCT 016A	81-87 & 91-100
3	Sept. 10 – 13	Semen Collection & Breeding Soundness Evaluation	Beef Center	47-55 & 59-65
4	Sept. 17 – 20	Male Macro & Micro Anatomy (Snake oil vs. Science Title & Paragraph Due)	KLCT 016A	25-34 & 37-44
5	Sept. 24 - Sept. 27	Endocrine Glands & Hormones (Snake Oil vs. Science Rough Draft Due)	KLCT 016A	13-21
6	Oct. 1 – 4	Superovulation & Embryo Transfer (Snake Oil vs. Science Homework Due)	KLCT 016A	
7	Oct. 8 – 11	Lab Practical Exam	KLCT 016A	
8	Oct. 15 – 18	Pregnancy Determination- Sow & Mare	Horse Center	
9	Oct. 22 – 25	Estrous Cycle: Natural Service and Artificial Insemination	Beef Center	103-109
10	Oct. 29 – Nov. 1	Gestation, Parturition, and Lactation	KLCT 016A	113-122 & 141-145
11	Nov. 5 – 8	Pregnancy Determination- Cow & Ewe	Beef & Sheep Centers	125-138
12	Nov. 12 – 15	Assisted Reproductive Techniques	KLCT 016A	
13	Nov. 19 – 22	Thanksgiving Holiday! No Labs!!		
14	Nov. 30	Lab Final Exam (evening exam)	KLCT 113	
15	Dec. 3 – 6	No Labs!!!!		

Lab Attendance & Grading:

- Students with University Excused Absences will have one week to make up missed lab quizzes.
- A grade of zero will be assigned for any labs that are not completed, and the zero will be used in the calculation of the final lab average.
- **A field study trip** to an equine breeding farm, an embryo transfer company, and (or) a bull stud will be scheduled

**ANSC 433
GRADUATE TEACHING ASSISTANTS
FALL 2012**

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AMERICANS WITH DISABILITIES ACT (ADA) POLICY STATEMENT:

ADA is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services, in Cain Hall, Room B118 or call 845-1637. For additional information visit <http://disability.tamu.edu>.

ACADEMIC INTEGRITY STATEMENT:

An Aggie does not lie, cheat, or steal or tolerate those who do. More information can be found at www.tamu.edu/aggiehonor/

Any acts of plagiarism will result in a zero for the assignment and a conference with Dr. Forrest.

Dates and/or Times of specific lecture and laboratory activities are subject to change. You will be notified promptly on the homepage of any necessary changes in schedule.