

Agricultural Science 352: Animal Reproduction

Fall, 2006

10:30-11:50 TTh MG 2001

Instructor: Dr. Charlie Apter
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Office Hours: MW 9:00-10:00 am, MW 1:30-3:30, or by appointment

Description and Objectives

This course is an in-depth overview of reproduction in domestic livestock, from whole-animal to cellular and molecular levels. We will consider bovine, equine, ovine, porcine, and to some degree canine, feline, and human. Course prerequisites: AGSC 315, BIOL 107.

Text

Senger, PL. 2003 or 2005. Pathways to Pregnancy and Parturition. 2nd or 3rd editions.

Lecture Schedule

Introduction to reproduction	Chapter 1
Female anatomy.....	Chapter 2
Female endocrinology, neuroendocrinology	Chapter 5
Female reproductive cycles; seasonality	Chapter 7
Oogenesis, folliculogenesis, ovulation	Chapter 8
Corpus luteum function	Chapter 9
Male anatomy	Chapter 3
Male endocrinology and spermatogenesis; artificial insemination.....	Chapter 10
Sexual behavior.....	Chapter 11
Capacitation and fertilization	Chapter 12
Maternal recognition of pregnancy	Chapter 13
Embryonic and fetal development, sexual differentiation.....	Chapter 4
Placentation, endocrinology of pregnancy and parturition.....	Chapter 14
Parturition, lactation	Chapter 15
Puberty.....	Chapter 6

Examinations and Grading (dates are tentative and subject to change)

Test 1 (Thursday, September 28, 9 lectures)	100 pts
Test 2 (Thursday, November 2, 9 lectures)	100 pts
Test 3 (Thursday, December 7, 8 lectures)	100 pts
Comprehensive final exam (Monday, December 11, 9:30 am)	200 pts
Occasional quizzes (5-10 at 10 points each).....	50-100 pts

Grades will be determined as a percentage of the 550-600 points possible for the class. Letter grades will be assigned based on the following percentages:

90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
Below 60%	F

Policy on absences and missed work

1. Excuses for unauthorized absences will not be accepted.
2. An authorized absence does not excuse the student from any missed work.
3. Permission for making up any missed work will be granted only for authorized absences arranged in advance of the absence or in the case of sickness, injury, or death in the family. In these cases, it is the responsibility of the student to notify the professor as soon as is possible. In the case of absence due to sickness, the student must present verification of the illness from the Student Health Center or family doctor.
4. Work missed due to unauthorized absence cannot be made up and a grade of zero will be recorded. Work missed due to an authorized absence must be made up or will be assigned a grade of zero.

Academic Dishonesty

Students are expected to do their own academic work. Any student caught cheating on an examination or on any other assignment will be subject to disciplinary action, including but not limited to the one of the following actions:

1. punitive grading such as receiving an "F" on the assignment or in the class;
2. being reported to the Division Head, the Vice President for Academic Affairs, and the Dean of Student Affairs;
3. University Conduct action for violating the Student Conduct Code;
4. being suspended or expelled from the major or division by the Division Head;
5. being suspended or expelled from the University as a sanction for violating the Student Conduct Code.

To learn more about academic integrity, please visit the following website:

http://conduct.truman.edu/docs/Academic_Integrity_booklet_2005.pdf