ANIMAL REPRODUCTION AND BREEDING

ANIMAL AND VETERINARY SCIENCE 222

SPRING SEMESTER, 2023

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Lecture: TLC 44

Text: Pathways to Pregnancy and Parturition
2nd or 3rd edition, 2003, 2012 Phillip L. Senger (Current Conceptions, Inc.)

Internet access for home page and class notes at http://www.webpages.uidaho.edu/avs-222

Date		Ch	Lectures	Tests and Quizzes
11-Jan	W		Reproductive Biology	-
12-Jan	R	2	Female Reproductive system	
17-Jan	Т		•	
18-Jan	W			
19-Jan	R		Deadline to add or change semester classes online	
24-Jan	Т	3	Male Reproductive System	Quiz 1 (25 pts)
25-Jan	W		Deadline to drop or audit without a W	
26Jan	R			
31-Jan	Т			
1-Feb	W	4	Embryogenesis	Quiz 2 (25 pts)
2-Feb	R			
7-Feb	Т			
8-Feb	W			
9-Feb	R	5	Regulation of Reproduction	Quiz 3 (25 pts)
14-Feb	Т			
15-Feb	W			
16-Feb	R			
21-Feb	Т	6	Puberty	Quiz 4 (25 pts)
22-Feb	W			
23-Feb	R	6	Estrous Cycle	
28-Feb	Т	7-8	Chapter 1-6	Exam 1 (100 pts)
1-Mar	W			
2-Mar	R			
7-Mar	Т	8-9	Estrous Cycle	Quiz 5 (25 pts)
8-Mar	W			
9-Mar	R			
14-Mar	Т		Spring Recess	
15-Mar	W		Spring Recess	
16-Mar	R		Spring Recess	
21-Mar	Т	10	Male Endocrinology and Spermatogenesis	Quiz 6 (25 pts)
22-Mar	W			
23-Mar	R			
28-Mar	Т			
29-Mar	W	12	Sperm Transport, Capacitation, and Fertilization	Quiz 7 (25 pts)

30-Mar	R			
4-Apr	Т			
5-Apr	W			
6-Apr	R	13	Maternal Recognition of Pregnancy	Quiz 8 (25 pts)
11-Apr	T		Chapter 7-12	Exam 2 (100 pts)
12-Apr	W			
13-Apr	R			
18-Apr	Т	14	Placentation, Gestation, and Parturition	Quiz 9 (25 pts)
19-Apr	W			
20-Apr	R			
25-Apr	Т			
26-Apr	W			
27-Apr	R	15	Lactation	Quiz 10 (25 pts)
2-May	Т		Feline and Canine Reproduction??	
3-May	W			
4-May	R		Bring everything together (Review)	
9-May	Т		Comprehensive (150 pts) Ch 1-13	
			8:00am-10:00am	
	Reproduction Quizzes (10) = 250 points Exam one and two = 200 points			
Exam one				
Exam Final	-			
	Participation and attendance = 50 points			
Total		1	= 650 points	
Crada		^	E72 to 650 points	
Grade:		A B	572 to 650 points 507 to 571 points	
		С	442 to 506 points	
		D	383 to 441 points	
		F	less than 380 points	
		Г	iess than sou points	

COURSE OBJECTIVES AVS 222

Animal Reproduction and Breeding

Spring Semester, 2023

Instructors: Amin Ahmadzadeh, #213B Ag. Science Bldg; amin@uidaho.edu

Teaching Assistants: Lauren Gilbertson (gilb7292@vandals.uidaho.edu)

Lecture: T, W, R, 8:30 – 9:20 am, TLC Room #44

Course Objective:

The overall objective of this course is to provide the student an opportunity to gain adequate fundamental knowledge about reproduction and lactation of domestic animals. Topics will address functional anatomy, basic physiology, and endocrinology relating to reproduction and lactation. Additionally, the mathematical and conceptual framework of genetic evaluation will be taught.

Having successfully completed this course, the student will be able to:

- Understand and describe the anatomy of reproductive organs and Mammary gland
- Understand the physiology and endocrinology of reproduction and lactation
- Discuss the spermatogenesis and reproductive life cycle of the female, including the estrous cycle, ovulation, fertilization, maternal recognition, gestation, parturition, and lactation

Learning Outcome:

- Students will demonstrate basic knowledge of biological systems and physiology and anatomy of reproduction, in farm animals and better appreciate the relationship between the theory of physiology and biological function in everyday life. [Learn and integrate]
- Students will improve in reading, listening, and analyzing complex physiological phenomenon and applying the acquired knowledge to real-world and applied principles in animal and veterinary sciences. [Think and create; Communicate]
- Students will be better prepared for the advance courses in endocrinology, physiology of reproduction and lactation. [Learn and integrate]
- Through weekly quizzes and assignments, students will become more disciplined, and learn how to be better prepared for more advance and complex courses in animal and veterinary science. [Practice citizenship]

Teaching Philosophy

Responsibility for learning in this course is jointly shared by the student and the instructor. **The instructor** is responsible for defining what is expected (Learning Objectives), where the information can be found (lectures, references), helping the learning process by providing examples, illustrations, answering questions during or after class, and measuring the degree of learning by testing. **The student** is responsible for learning the subject matter specified in the learning objectives, asking question about those items they don't understand, and contributing their ideas to the class discussion.

Prerequisites: AVS 109

Textbook: Pathways to Pregnancy and Parturition, Ed. P. Senger, Current

Conceptions (2nd or 3rd Edition)

Additional References (Reproduction):

Pathways to Pregnancy and Parturition, Ed. P. Senger, (1st, and 2nd Edition) These References are located in Ag Science Building Room 210

Quizzes will be announced in advance (check the syllabus).

If eleven quizzes are given, one quiz score will be dropped; quizzes may not be retaken; a missed quiz may be chosen as the dropped quiz. Instructor should be notified as soon as possible if students will not be present for an exam. Unexcused absences will result in a zero grade. Makeup exams are given under special circumstances. However, students may obtain copies of the exams they have missed for study purposes.

Attendance Policy:

Students are allowed to have <u>three unexcused absences</u>. <u>Four-to six absences</u> results in loss of up to 25 points, and more than six unexcused absences will result in loss of up to 50 points.

Other Class Policy:

The use of mobile phones (texting, etc.) is prohibited at all time in the classroom. Students can utilize their personal computer ONLY for taking notes and following up with the lecture notes. The use of computer for any other purpose is not allowed. The improper use of mobile phone or computer will lead to loss of points in quizzes or exams.

The lecture will not be provided via zoom on regular basis. In case students miss classes due to an excused absence (some sort of confirmation needs to be provided), accommodations will be made to ensure students receive the necessary information.