Jordan University of Science and Technology Faculty of Agriculture Department of Animal Production Semester

Course Information		
Course Title	REPRODUCTIVE PHYSIOLOGY	
Course Number	AP 423	
Prerequisites	AP 321	
Course Website		
Instructor	Dr. Mustafa Beni-Domi	
Office Location	M1 L3	
Office Phone	7201000 Ext. 22221	
Office Hours	8-9 am	
E-mail	huseinmq@just.edu.jo	
Teaching		
Assistant		
Course Description		

Text Book		
Title	Applied Animal Reproduction	
Author(s)	H. Joe Bearden and J. W. Fuquay	
Publisher		
Year	1997	
Edition	4th edition	
Book Website		
References	1. Reproduction in farm animals (Hafez, 1993).	
	2. Veterinary Endocrinology and Reproduction (McDonald,	
	1989).	
	3. Supplemental material will be handed out as needed.	

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		30
Second Exam		30
Final Exam		40

Course Objectives	Weights
The course will give an overview of reproductive physiology and endocrinology, male and female reproduction, reproductive patterns and methods employed to optimize reproductive management of domestic species.	

Teaching & Learning Methods

Learning Outcomes: Upon successful completion of this course, students will be able to

Learn and acquire a complete overview of the reproductive processes. A major effort will be made to maintain clarity of terminology and concepts associated with reproductive physiology in farm animal species.

Learn and understand up-to-date physiological processes and mechanisms controlling reproduction involving gamete production, endocrine regulation, estrous cycle regulation, conception, gestation, parturition, lactation and reproductive management.

Useful Resources

	Course Content		
Week	Topics	Chapter in Text (handouts)	
	History and introduction to reproductive physiology		
	Anatomy of the female reproductive tract		
	Anatomy of the male reproductive tract		
	 Neuroendocrine Regulators of Reproduction The pituitary gland and its reproductive hormones Neuroendocrine control of the pituitary gland Hormones of the gonads Primary reproductive hormones of the adrenal cortex Endocrine function of the uterine/placental unit Reproductive role of prostaglandins Regulation of hormonal receptor sites Mechanisms of hormone actions 		
	Reproductive Processes - Sex differentiation and the male development - Puberty in the male - Spermatogenesis - Hormonal control of the testes and access. sex glands. - Capacitation of spermatozoa and acrosome reaction - Oogenesis - Puberty in the female - The estrous cycle - Stages of the estrous cycle - Hormonal regulation of the estrous cycle		

Ovulation
Gamete transport and Fertilization
Gestation
Parturition
Mammary system and lactation
Mating behavior
Seasonal breeders
Reproductive management
Introduction to AI and embryo transfer techniques

Additional Notes		
Assignments	Quizzes may be given any time during this course which may cover lecture material between lectures.	
Exams	No make-up exams unless absence was excused.	
Cheating	Acts in violation including cheating are very serious and will not be tolerated. If you are caught cheating in an examination or quiz you will receive the grade of zero (0) for that examination or quiz. If more than one such incident occurs you receive the grade of zero for the course.	
Attendance	Attendance in class is required. Students are expected to attend class regularly.	
Workload	Quizzes may be given at the start of the class period or whenever needed. Quizzes will cover lecture material between quizzes.	
Graded Exams		
Participation	Participation in class discussions is strongly encouraged	
Laboratory		
Projects		