

Instructor:
Dr. Saundra TenBroeck
Room 100 ANS Bldg.
352-392-2789
sht@ufl.edu

Office Hours
Tuesday, Thursday
10:30 – noon
or email for an
appointment

Lab instructor:
Justin Callaham
callaham@ufl.edu

Meets T,R 2nd Period ANS 155 Labs R 6&7th ANS 155 or HTU

ANS 4318C is an equine reproductive management course. Topics will include anatomy, the estrous cycle, hormones and pharmacologic manipulation, gametogenesis, embryonic and fetal development, parturition, foal care, assisted technologies, and management strategies. Classroom and laboratory activities and assignments will integrate the science of reproductive physiology with practical horse breeding management applications and skills development with the intended outcome to produce a foal for a profit.

The educational objectives of this course are to:

1. Understand the unique aspects of equine reproductive anatomy & physiology.
2. To develop understanding of and limited skills in basic principles of breeding soundness exams, semen collection, semen evaluation, semen freezing, estrous synchronization, artificial insemination, embryo transfer and pregnancy diagnosis.
3. Recognize the signs of impending parturition, process of foaling and analyze neonatal outcomes.
4. Summarize current best management reproductive practices in modern horse breeding

Textbooks: **Pathways to Pregnancy and Parturition.** 3rd Edition 2012, P.L. Senger, Current Conceptions, Inc, Pullman, WA.

Manual of Equine Reproduction. 3rd Edition 2010, S.P. Brinsko, T.L. Blanchard, D.D. Varner, J.Schumacher, C.C. Love, Elsevier Health Sciences

Prerequisite: ANS-3319C Reproductive Physiology and Endocrinology in Domestic Animals

Grading:	Weekly laboratory quizzes	50%	Lowest quiz score dropped
	Midterm (100 points)	15%	
	Final exam (100 points)	15%	
	Case studies	20%	

Grades will be assigned on the basis of:

Final Grades

Final grades will be determined by calculating the percentage of points earned out of total points available. That percentage will correspond to a letter grade. No component will be given extra weight so you should be able to easily calculate your current grade and the number of points you need to get the final grade you desire. Letter grades will be assigned as follows:

A	≥ 91	B-	≥ 78 - <81	D+	≥ 65 - <68
A-	≥ 88 - <91	C+	≥ 75 - <78	D	≥ 61 - <65
B+	≥ 85 - < 88	C	≥ 71 - <75	D-	≥ 58 - < 61
B	≥ 81 - <85	C-	≥ 68 - <71	E	< 58

Course Information

PowerPoints and oral presentations will be methods of communicating information for **most** of the lectures. Power points will not be provided for lectures. Skeleton outlines, diagrams and support material will be posted on Canvas or provided via email prior to lecture. Attendance in lecture and labs is critical to be successful in this course.

Dress Code

College is a time of preparation for joining the work force and you should take pride in your appearance. Bare midriffs, spaghetti-strap tops, short shorts, mini-skirts and clothing that insufficiently covers your undergarments are specifically prohibited. Hats must be removed in the classroom and during quizzes or exams. Furthermore, as representatives of this class, our department and our university you are expected to dress, and to act, in a professional manner at all times. Long pants and boots or close toed shoes are required to participate in labs with horse handling.

Cell Phone, Laptops and Other Technology

Cell phones must remain silent and stored during class unless specifically permitted for an activity or assignment. Laptops, tablets, and internet connected devices may be used in this course, however, these devices do come with social responsibility. Students are expected to keep sounds turned off, not to distract those around them, and most of all to restrict “multitasking” activities (ie. email and social media.) that will distract themselves or others. Excessive multitasking and disruptive use of electronic devices will result in a dismissal from the classroom.

Grades and Grade Points

Information on current UF policies for assigning grade points:
<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Attendance and Make-Up Work

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at:
<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *“We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: *“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”*

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual

responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

Software Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/*
Counseling Services, Groups and Workshops, Outreach and Consultation
Self-Help Library, Wellness Coaching
- *U Matter We Care, www.umatter.ufl.edu/*
- *Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/*

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

<u>WEEK</u>	<u>DATE</u>	
1	1/8, 1/10 1/10	Course overview, Breeding options, Industry Issues No Lab
2	1/15, 1/17 1/17	Mare Anatomy, Estrous Cycle ANS 155 Mare Reproductive Anatomy
3	1/22, 1/24 1/24 HTU	Neuroanatomy and Seasonality, Manipulation of the estrous cycle Animal Handling & Safety
4	1/29, 1/31 1/31	Mare Sexual Behavior, Stallion Sexual Behavior HTU Sexual Behavior and Teasing Programs
5	2/5, 2/7 2/7	Stallion Anatomy, Breeding Soundness Exam HTU Semen Collection
6	2/12, 2/14 2/14	Semen characteristics & Artificial Insemination ANS 155 Semen Evaluation and preparation for breeding
7	2/19, 2/21 2/21	Stallion management ANS 155 Semen preparation for shipping or freezing
8	2/26 2/28 2/28	Midterm Exam Breeding the open mare, breeding the foaling mare HTU Palpation and ultrasound for breeding decisions, AI
9	3/4 - 3/8	SPRING BREAK
10	3/12, 3/14 3/14	Endometritis, pregnancy loss; HTU Pregnancy Diagnosis in Mares; Manual palpation and ultrasound;
11	3/19, 21 3/21	Pregnancy Determination Embryogenesis, Placentation and Fetal Development, ANS 155 Semen preservation
12	3/26, 28 3/28	Managing the pregnant mare Mare Genital Tract Examination: Culture, Cytology and Biopsy; Caslick's
13	4/2, 4/4 4/4	Assisted reproductive technologies. Embryo Transfer
14	4/9 & 11 4/11	Parturition; dystocia; managing the neonate ANS (155) evaluating placenta, colostrum and passive transfer
15	4/16 & 18 4/18	Mating decisions; Evaluating Breeding Records; Filing reports Visit ESC and handle babies
16	23	Review and presentations
Thur.	5/2	7:30 – 9:30 a.m. Final Exam ANS 155