

Instructor:
Dr. Saundra TenBroeck
 Room 231C ANS Bldg.
 352-392-2789
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Office Hours
Tuesday, Thursday
10:00 –11:00
 or email for an
 appointment

Lab instructor:
Justin Callaham
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Meets M, W 3rd Period 155 ANS

Lab F 3-4th Period HTU repro barn or 155 ANS

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. Develop an 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

Course Information

There are no required textbooks for this course but two are recommended. The majority of lectures will be delivered via narrated power point on CANVAS. Supplemental material, skeleton lecture outlines, diagrams and images will also be posted on Canvas. Laboratory periods will be conducted at the HTU to enhance experiential learning.

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.

Grades and Grade Points

On-line quizzes (14 @10 pts. each)	20%
Midterm (100 points)	20%
Final exam (100 points)	20%
Assignments (posted on Canvas by due date)	20%
Participation	20%

Points earned in each category will be calculated as a percentage of the final grade as listed above. The final course will correspond to a letter grade based on the chart below:

A	≥ 90	B-	$\geq 78 - <80$	D+	$\geq 65 - <68$
A-	$\geq 88 - <90$	C+	$\geq 75 - <78$	D	$\geq 60 - <65$
B+	$\geq 85 - < 88$	C	$\geq 70 - <75$	D-	$\geq 58 - <60$
B	$\geq 80 - <85$	C-	$\geq 68 - <70$	E	< 58

For information on current UF policies for assigning grade points see:

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

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 will be used in this course, however, these devices do come with social responsibility.

Attendance and Make-Up Work

Regular attendance is expected. Active participation is necessary for successful completion of the course. If you know you will be absent from class, please contact the instructor at least one week in advance of the date(s) to be missed. If you have an unforeseen emergency, you must provide written documentation to support your absence (e.g. doctor's note). Missed work for excused absences will be accepted with no penalty if completed by an agreed-upon extended deadline. Assignments are expected to be submitted on time. Late work will receive the following penalty:

0.1 hour – 24 hours late = - 25% 24 – 48 hours late = - 50% >48 hours late not accepted

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/UGRD/academic-regulations/attendance-policies/>.

Course Website:

All course materials and communications will be hosted on CANVAS. You can access CANVAS at <https://elearning.ufl.edu>. CANVAS will contain announcements, course notes, supplementary materials (e.g., articles, videos, web links), assignments, and a running tally of your grade.

Course Activities and Assessments:

This course will involve reading, writing, group work, and outside effort. The study of reproduction requires memorization as well as application. You will need to study lecture and supplemental materials outside of class and put in consistent effort throughout the semester. To get the most out of this course, take advantage of the opportunities offered, get dirty, and ask questions! Learning is not a spectator sport.

Academic Honesty

UF students are bound by the Honor Pledge which states “*We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code.*” On all work submitted for credit by students 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.*” The Conduct Code specifies a number of behaviors that are in violation of this code and the possible sanctions. See the UF Conduct Code website for more information. If you have any questions or concerns, please consult with the instructor or TAs in this class

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). 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: <https://policy.ufl.edu/regulation/4-040/>

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.

Whole Gator App

The Whole Gator and website and app connects UF students with resources dedicated to supporting overall health and well-being. In addition to many of the resources below it also has strategies to practice self-care. <https://one.ufl.edu/whole-gator/topics>

Health and Wellness

- U Matter, We Care: If you or someone you know is in distress, please contact 352-392-1575, or visit <https://umatter.ufl.edu/> to refer or report a concern and a team member will reach out to the student in distress.
- Counseling and Wellness Center: Visit the Counseling and Wellness Center website <https://counseling.ufl.edu/> or call 352-392-1575 for information on crisis services as well as non-crisis services.
- Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website. <https://shcc.ufl.edu/>
- University Police Department: Visit UF Police Department website <https://police.ufl.edu/> or call 352-392-1111 (or 9-1-1 for emergencies).

- UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the website. <https://ufhealth.org/locations/uf-health-shands-emergency-room-trauma-center/>
- GatorWell Health Promotion Services: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the website <https://gatorwell.ufsa.ufl.edu/> or call 352-273- 4450.
- Student Success Initiative, <http://studentsuccess.ufl.edu> .

Academic Resources

- E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.
- Career Connections Center: Reitz Union Suite 1300, 352-392- 1601. Career assistance and counseling services.
- Library Support: Various ways to receive assistance with respect to using the libraries or finding resources. Call 866-281-6309 or email ask@ufl.libanswers.com for more information.
- Teaching Center: 1317 Turlington Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.
- Writing Studio: Daytime (9:30am-3:30pm): 2215 Turlington Hall, 352-846-1138 Evening (5:00pm-7:00pm): 1545 W University Avenue (Library West, Rm. 339). Help brainstorming, formatting, and writing papers.
- Academic Complaints: Office of the Ombuds; Visit the Complaint Portal webpage for more information.
- Enrollment Management Complaints (Registrar, Financial Aid, Admissions): View the Student Complaint Procedure webpage for more information. <https://www.ombuds.ufl.edu/complaint-portal/>

Student Complaints:

- Residential Course: <https://www.ombuds.ufl.edu/complaint-portal/>
- Online Course: <https://pfs.tnt.aa.ufl.edu/state-authorization-status/#student-complaint>

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. Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at: <https://gatorevals.aa.ufl.edu/students/> . Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/> . Summaries of course evaluation results are available to students at: <https://gatorevals.aa.ufl.edu/public-results/>.

WEEK DATE

1	1/13 - 1/15 1/17 lab	Course overview, Industry Issues, Mare Anatomy Animal handling and Safety
2	1/22 1/24 lab	Neuroanatomy and Seasonality; Estrous Cycle Sexual Behavior, Teasing Programs and Recordkeeping
3	1/27 - 1/29 1/31 lab	Evaluating breeding records for mgmt. decisions Review breeding records; tease mares
4	2/3 – 2/5 2/7 lab	Managing the estrous cycle, hormonal & mechanical tools Palpation safety and introduction to ultrasound
5	2/10 - 2/12 2/14 lab	Management of the open mare and foaling mare Mare BSE, Diagnostics, Caslick's
6	2/17 - 2/19 2/21 lab	Breeding options; Artificial Insemination Building AV's
7	2/24 - 2/26 2/28 lab	Semen Collection & Evaluation Midterm Exam
8	3/03 - 3/5 3/07 lab	Stallion collection & Semen Processing Semen preparation for breeding, shipping or freezing
9	3/10 -3/12 3/14 lab	Assisted reproductive technologies, AI & ET Artificial Insemination
	3/17 - 3/20	Spring Break
10	3/24 - 3/26 3/28 lab	Endometritis, Embryogenesis, Placentation and Fetal Development, Skills practice
11	3/31 – 4/02 4/04	Pregnancy Determination & Managing the pregnant mare Pregnancy Diagnosis
12	4/7 – 4/9 4/11 lab	Abortion, Placentitis, Premature parturition Stallion BSE
13	4/14 - 4/16 4/18 lab	Parturition; Dystocia; Managing the neonate Postpartum: evaluating placenta, colostrum and passive transfer
14	4/21 – 4/23 4/25 lab	Mating decisions, Genetic testing, Filing reports Skills practice
Friday	5/2	10:00a.m. – 12:00 p.m. Final Exam HTU classroom