

COURSE NAME; NUMBER; SEMESTER; MEETING DAYS, TIMES, AND PLACE.

Animal Reproduction ANSC 5326

Spring 2022

Online

CONTACT INFORMATION:

Instructor(s): DeMetris Reed, Jr.

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Office Hours: by appointment

COURSE WEBSITE, RESOURCES AND MATERIALS:

REQUIRED TEXT:

- *Pathways to Pregnancy and Parturition* by PL Senger, Current Conceptions, Inc., 3rd edition, 2012 (softcover). <https://tinyurl.com/SPR19-Course-Material-067-327>. A Copy will be uploaded to blackboard.

COURSE DESCRIPTION:

In this course, you will be presented with basic principles of reproduction in domestic species. The emphasis here will be on the application of this information toward understanding the reproductive system and solving problems in reproduction. Information from non-farm species has contributed significantly to our understanding of reproductive physiology. Therefore, where appropriate, species other than cattle, sheep, swine, poultry, and horses will be discussed.

COURSE LEARNING GOALS:

The students will

- 1) Comprehend the basic knowledge of the physiological mechanisms regulating reproduction in domestic animals, with additional examples from other species and humans. (PLG1 & 2).
Assessment: Three exams and 10 quizzes will cover the basics of endocrine and neurological control of reproduction, sexual behaviors, fertilization, pregnancy and parturition.
- 2) Assess the ways each species addresses the challenge of reproducing (PLG2).
Assessment: Exams will consist of questions that will involve species-specific reproductive strategies.
- 3) Understand the language of reproduction and the technological advances that impact both human and domestic animal reproduction (PLG2).
Assessment: Exams and quizzes will consist of questions that will focus on the technological advances over the past 100 years of reproductive sciences.

ASSIGNMENTS & ASSESSMENT:

EXAMS:

3 hourly mid-term exams: 20% each x 3 = 60%.

Final exam: 25%

If you have a legitimate excuse for missing an exam, Dr. Reed must be notified at least 24 h prior or after the exam.

GRADING

Grades will be calculated as follows: A = 90% or above, B+ = 85% - 89%, B = 80% - 84%, C+ = 75% - 79%, C = 70% - 74%, D = 60% - 69%, F = less than 60%

RESPONSIBILITIES OF THE STUDENT

1. 100% participation is critical. Please pay attention to the dates noted in the syllabus and clear all personal conflicts for participation.
 2. Print all lecture materials (posted on Blackboard) and bring with you to class to take additional notes.
 3. If something is unclear in class, ask questions immediately. **DO NOT WAIT.** Due to the pace of the lectures, key concepts that are missed early on will impact later learning.
 4. Prepare for exams by reviewing materials continuously. The dates might change and therefore, regular check-in is critical.
 5. **You are responsible for all the information on this syllabus.**
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COURSE SCHEDULE:

| Lecture | DATE | TOPIC | Chapter |
|------------------------|---------------|---|----------------------|
| 1 | | Intro to Reproduction | 1 |
| 2 | | Female I | 2 |
| 3 | | Female II | 2 |
| 4 | | Male | 3 |
| 5 | | Reproductive System Development | 4 |
| 6 | | | 5 |
| 7 | | Control of Reproduction II | 5 |
| 8 | | Control of Reproduction III | 5 |
| First Exam | | | |
| | | Puberty | Lectures 1-8 |
| 9 | | Estrous Cycle | 6 |
| 10 | | | 7 |
| 11 | | Follicular Phase (Homework assigned) | 8 |
| 12 | | Ovulation | 8 |
| 13 | | Luteal Phase | 9 |
| 14 | | Spermatogenesis I | 10 |
| 15 | | Reproductive Behavior I | 11 |
| 16 | | Reproductive Behavior II | 11 |
| Review 2nd Exam | | | |
| | EXAM 2 | Th Fertilization | Lectures 9-16 |
| 17 | | Pregnancy I | 12 |
| 18 | | | 13 |
| 19 | | Pregnancy II | 13 |
| 20 | | Parturition | 15 |
| 21 | | Postpartum Events | 14 |
| 22 | | Non-mammalian Reproduction | |
| Review 3rd Exam | | | |

FINAL EXAM/PAPER DATE AND TIME

Online Final exam Schedule: **FINAL EXAM**
(Comprehensive and mandatory) Friday

ACADEMIC INTEGRITY

The university's policy on Academic Integrity is available on the University website. The principles of academic integrity require that a student:

- properly acknowledge and cite all use of the ideas, results, or words of others.
- properly acknowledge all contributors to a given piece of work.
- make sure that all work submitted as his or her own in a course or other academic activity is produced without the aid of impermissible materials or impermissible collaboration.
- obtain all data or results by ethical means and report them accurately without suppressing any results inconsistent with his or her interpretation or conclusions.
- treat all other students in an ethical manner, respecting their integrity and right to pursue their educational goals without interference. This requires that a student neither facilitate academic dishonesty by others nor obstruct their academic progress.
- uphold the canons of the ethical or professional code of the profession for which he or she is preparing.

Adherence to these principles is necessary in order to ensure that

- everyone is given proper credit for his or her ideas, words, results, and other scholarly accomplishments.
- all student work is fairly evaluated and no student has an inappropriate advantage over others.
- the academic and ethical development of all students is fostered.
- the reputation of the University for integrity in its teaching, research, and scholarship is maintained and enhanced.

Failure to uphold these principles of academic integrity threatens both the reputation of the University and the value of the degrees awarded to its students. Every member of the University community therefore bears a responsibility for ensuring that the highest standards of academic integrity are upheld.

