

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

Animal Reproduction - 11:067:327; Spring 2023; Monday/Thursday 12:00-1:20 PM; CDL 102

CONTACT INFORMATION:

Instructor(s): course coordinator: Troy A. Roepke, guest lecturers: Drs. Elizabeth Snyder and Carol Bagnell

Office Location: TAR: Bartlett 305B

Phone: 848-932-9454, Email: ta.roepke@rutgers.edu

Office Hours: Tuesday or Wednesday 12 pm – 1 pm via Zoom

COURSE WEBSITE, RESOURCES AND MATERIALS:

Required texts and websites:

- **Pathways to Pregnancy and Parturition** by PL Senger, Current Conceptions, Inc., 3rd edition, 2012 (softcover).
- **Canvas COURSE WEBSITE:** Preferred browser for access is Chrome or Firefox (vs Internet Explorer). Go to URL: <https://canvas.rutgers.edu>. Click on Student Login. Enter your NetID and password. After you have logged in, select 11:067:327:H1 Animal Reproduction. If you cannot access the Canvas website or have technical problems with Canvas, please contact Office of Information Technology - <https://it.rutgers.edu/help-support/> or help@oit.rutgers.edu. **Note:** All grades will be posted on the course website including homework assignments and the quizzes and exams on Top Hat. Emails will be sent to your scarletmail account about course info, availability of lecture slides for downloading, lecture review materials, submitting homework, etc. Also, through Canvas, I will be holding virtual office hours via Zoom every Wednesdays from 12-1pm to answer questions and review topics. Two undergraduate TAs who will be holding virtual review session every week via Zoom through Canvas (date and time TBD). If due to COVID, the class must move to remote learning, lectures will be held synchronously on TopHat or Zoom and recordings will be made available on TopHat or Canvas.
- **TOP HAT:** We will also be using the Top Hat (www.tophat.com) virtual course system which can be used on Apple or Android smartphones and tablets or PC and Apple laptops. During live lectures, I will ask questions that you can submit answers to through Top Hat and we will use Top Hat for all Quizzes and Exams. You can visit the Top Hat Overview (<https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide>) within the Top Hat Success Center that outlines how to register a Top Hat account and provide a brief overview to familiarize you with the system. An invitation will be sent to you by email. If do not receive this email, you can register by simply visiting our course website: Unique Course: <https://app.tophat.com/e/301205>. Note: Course Join Code is **301205**. **Top Hat requires a paid subscription - \$20/semester.** A full breakdown of all subscription options available can be found here: www.tophat.com/pricing. Should you require assistance with Top Hat at any time, please contact their Support Team directly via email (support@tophat.com), the in-app support button, or by calling 1-888-663-5491. Top Hat requires specific user information to troubleshoot issues.

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 quizzes, and homework 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 80-minute exams: 25% each x 3 = 75% using Top Hat. If you have a legitimate excuse for missing an exam, Dr. Roepke must be notified at least 24 h prior to the exam. *All claims will be sent to the Dean of Students, Dean Michelle Jefferson, for verification.*

QUIZZES: 10 quizzes are in-class (see below for schedule) and are each worth 1% of your grade for a total of 10%. Quizzes will be 10 true/false or multiple-choice questions using Top Hat. Quizzes will happen in the first 10 minutes of class. No exceptions. Information will be presented in class that is not in the text or on the website that will be included in quizzes and exams.

HOMEWORK: There will be 3 Homework assignments worth 5% of your grade for a total of 15%. Assignments must be turned in on time in Canvas. Any late assignments will be docked points ~ 10% of the total points per day.

ABSENCE POLICY:

Students are expected to attend all classes. Attendance will be taken through Top Hat. No makeup quizzes or exam without documentation. Students are expected to attend all classes. If you expect to miss a class, please use the Rutgers University absence reporting website: sims.rutgers.edu/ssra/ and input the date and reason for your absence. An email will automatically be sent to me.

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% attendance is critical. Please pay attention to the dates noted in the syllabus and clear all personal conflicts for attendance.
2. Print all lecture materials (posted on Canvas) 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 quizzes and exams by reviewing materials continuously. The quiz dates might change and therefore, attendance is critical.
- 5. You are responsible for all the information on this syllabus.**

COURSE SCHEDULE:

<u>Lecture/LMS</u>	<u>DATE</u>	<u>TOPIC</u>	<u>Chapter</u>	<u>Instructor</u>
1	Jan 19 Th	Intro to Reproduction	1	Roepke
2	23 Mo	Female I	2	Roepke
3	26 Th	Female II	2	Roepke
Homework #1 assigned				
Quiz #1: Monday 1/30/21 on Lectures 1-3				
4	30 Mo	Male	3	Roepke
5	Feb 2 Th	Reproductive System Development	4	Roepke
Quiz #2: Monday 2/6/21 on Lectures 4-5				
6	6 Mo	Control of Reproduction I	5	Roepke
7	9 Th	Control of Reproduction II	5	Roepke
8	13 Mo	Control of Reproduction III	5	Roepke
Quiz #3: Thursday 2/16/21 on Lectures 6-8				
	16 Th	Review 1st Exam - Homework #1 due		Roepke
	EXAM 1 Feb 20	Mo (12:00-1:20)	Lectures 1-8	
9	23 Th	Puberty	6	Roepke
10	27 Mo	Estrous Cycle	7	Roepke
Homework #2 assigned				
Quiz #4: Thursday 3/2/21 on Lectures 9-10				
11	March 2 Th	Follicular Phase	8	Roepke
12	6 Mo	Ovulation	8	Roepke
Quiz #5: Thursday 3/9/21 on Lectures 11-12				
13	9 Th	Luteal Phase	9	Roepke
Spring Break March 13-17				
14	20 Mo	Spermatogenesis	10	Snyder
Quiz #6: Thursday 3/23/21 on Lectures 13-14				
15	23 Th	Reproductive Behavior (Male)	11	Roepke
16	27 Mo	Reproductive Behavior (Female)	11	Roepke
Quiz #7: Thursday 3/30/21 on Lectures 15-16				
X	30 Th	Virtual on ZOOM - Review 2nd Exam - Homework #2 due		Roepke/Snyder
	EXAM 2 April 3	Mo (12:00-1:20)	Lectures 9-16	
17	April 6 Th	Fertilization	12	Roepke
Homework #3 assigned				
18	10 Mo	Pregnancy I	13	Roepke
Quiz #8: Thursday 4/13/21 on Lectures 17-18				
19	13 Th	Pregnancy II	13	Bagnell
20	17 Mo	Parturition	15	Bagnell
Quiz #9: Thursday 4/20/21 on Lectures 19-20				
21	20 Th	Postpartum Events	14	Bagnell
22	24 Mo	Non-mammalian Reproduction -Roepke		

Quiz #10: Thursday 4/27/21 on Lectures 21-22

27 Th
EXAM 3

Review 3rd Exam - Homework #3 due
May 1 Mo (12:00-1:20)

Roepke/Bagnell
Lectures 17-22

OPTIONAL FINAL??

DIVERSITY STATEMENT

In an ideal world, science would be objective. However, much of science is subjective and is historically built on a small subset of privileged voices. I acknowledge that most of the readings for this course were authored by white men. Furthermore, the course often focuses on historically important reproductive, developmental, and toxicological experiments which were mostly conducted by white men. I acknowledge that it is possible that there may be both overt and covert biases in the material due to the lens with which it was written, even though the material is primarily of a scientific nature. Integrating a diverse set of experiences is important for a more comprehensive understanding of science. Please contact me (in person or electronically) or submit anonymous feedback if you have any suggestions to improve the quality of the course materials.

Furthermore, I would like to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, etc.) To help accomplish this:

- I acknowledge that we are on the traditional homelands of the Lenni Lenape peoples.
- If you have a name and/or set of pronouns that differ from those that appear in your official Rutgers records, please let me know.
- If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you. Remember that you can also submit anonymous feedback (which will lead to me making a general announcement to the class, if necessary to address your concerns).
- I (like many people) am still in the process of learning about diverse perspectives and identities. If something was said in class (by anyone) that made you feel uncomfortable, please talk to me about it (Again, anonymous feedback is always an option).

ACADEMIC INTEGRITY

The university's policy on Academic Integrity is available at <http://academicintegrity.rutgers.edu/academic-integrity-policy>. 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.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:

Please follow the procedures outlined at <https://ods.rutgers.edu/students/registration-form>. Full policies and procedures are at <https://ods.rutgers.edu/>

STUDENT WELLNESS SERVICES

Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901 / www.rhscaps.rutgers.edu/

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professional within Rutgers Health services to support students' efforts to succeed at Rutgers University. CAPS offers a variety of services that include: individual therapy, group therapy and workshops, crisis intervention, referral to specialists in the community and consultation and collaboration with campus partners.

Violence Prevention & Victim Assistance (VPVA)

(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / www.vpva.rutgers.edu/

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling and advocacy for victims of sexual and relationship violence and stalking to students, staff and faculty. To reach staff during office hours when the university is open or to reach an advocate after hours, call 848-932-1181.

Disability Services

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / <https://ods.rutgers.edu/>

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form>.