

COURSE NAME, NUMBER, SEMESTER

Animal Reproduction

11:067:327 Fall 2020

MEETING DAYS, TIMES, AND PLACE

Due to COVID-19 this class will be taught in a SYNCHRONOUS Remote format.

Class meetings will be held 'live' on M/Th 2nd period 10:55 AM – 12:15 PM (Eastern Time) using Zoom. The Zoom session will open at 10:45 AM to give students a chance to log on and get ready for class.**CONTACT INFORMATION:** Office hours by appointment; contact us by phone or email (preferred).Instructor: Carol Bagnell, PhD; *Coordinator*

Office Location: Foran Hall 126B

Phone: 848-932-6334 email: cbagnell@sebs.rutgers.edu

Instructor: Troy Roepke, PhD

Office Location: Bartlett Hall 305-B

Phone: 848-932-9454 email: tr246@sebs.rutgers.edu

Instructor: Elizabeth Snyder, PhD

Office Location: Foran Hall 328B

Phone: 848-932-6377 email: elizabeth.snyder@rutgers.edu**UNDERGRADUATE TAs:**Nicole Sadlier (ncs99@scarletmail.rutgers.edu)Samantha Weitzman (sw879@scarletmail.rutgers.edu)**COURSE WEBSITE, RESOURCES AND MATERIALS:**

All course materials will be posted on the Canvas course website: <https://canvas.rutgers.edu/>. Log into Canvas using your net ID and password. Select Animal Reproduction under the Courses tab. For help email help@canvas.rutgers.edu or call the Canvas Help Desk at 877-361-1134 (24h/7 days a week). Course materials will be posted in Modules. Recordings of the lectures will be posted after each class.

- Required text: *Pathways to Pregnancy and Parturition* by PL Senger, Current Conceptions, Inc., 3rd edition, 2012 (softcover)
- Technology requirements
 - A computer (desktop/laptop) or mobile device (smartphone/tablet) less than five years old.
 - Speakers/headphones/earbuds for listening to audio or videos.
 - Webcam and microphone for interacting in course activities (Zoom, Webex), video test proctoring (Proctor Track), or other third-party tools.
 - A stable Internet connection. A speed at or above 25 Mbps is recommended for smooth video stream and conferencing.
 - More information on [Canvas Basic Computer Specifications](#) and [Supported Browsers](#).

PREREQUISITES: General Biology 1 and 2**COURSE DESCRIPTION:**

This course centers on the anatomy and physiology regulating reproduction in animals focusing on domestic animals, with additional examples from other species.

COURSE LEARNING GOALS:

See <https://animalsciences.rutgers.edu/undergraduate/mission.html> for Animal Sciences Program Learning Goals (PLGs).

Students will

1. Gain a broad understanding of the ways in which each animal species solves the problem of reproducing. (PLG 1)
Assessment: Exams and quizzes
2. Develop an understanding of the role of hormones in the control of reproduction. (PLG 2)
Assessment: Exams will consist of questions that involve critical thinking, assignments
3. Appreciate the anatomical and physiological diversity that drives the biology of reproduction across species. (PLG 2)
Assessment: Exams, quizzes and assignments
4. Gain a better understanding of the technological advances that impact both human and domestic animal reproduction. (PLG2)
Assessment: Exams, quizzes and assignments

GRADING & ASSESSMENT:

Your final grade will be based on the following:

- Three exams (20% each)
- 10 online quizzes (20%)
- 6 Assignments (10%) and Discussions (10%)

See Schedule of Assignments, Quizzes and Exams grid (attached)

Exams 1 and 2 are scheduled during class time; Exam 3 will be given during final exam week. Exams will be open for an 80 min period (10:55 AM – 12:15 PM). Once you begin you will have 80 min to finish the exam. Format for exams will be true-false, multiple-choice and/or short-essay questions.

Quizzes will **open at 5:00 PM Eastern time** on the start date and close 4 d later at 5 PM on the end date. Once you open the quiz you will have 30 min to finish the quiz. One low quiz grade will be dropped, there are no make-up quizzes.

Assignments will consist of short essay responses (350 words or less) to a question prompt about a particular topic. Assignments will **open on Sundays at 1 PM Eastern time** and close on the upcoming Thursdays at 1 PM Eastern time. Assignment responses will be submitted online using Canvas.

Discussions will be posted weekly and credit will be given for your participation asking and answering questions.

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

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/>

ABSENCE POLICY

Students are expected to attend all 'live' online classes. Note: Make-up quizzes and exams will not be given. If you have a legitimate medical excuse for missing an exam, please notify me at least 24 hr prior to the exam with appropriate documentation. Also, if you have standing religious observations/holidays, please contact me immediately at the start of the semester.

COURSE SCHEDULE

See attached.

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.

STUDENT WELLNESS SERVICES

Just In Case Web App <http://codu.co/cee05e>

Access helpful mental health information and resources for yourself or a friend in a mental health crisis on your smartphone or tablet and easily contact CAPS or RUPD.

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>.

Scarlet Listeners

(732) 247-5555 / <https://rutgers.campuslabs.com/engage/organization/scarletlisteners>

Free and confidential peer counseling and referral hotline, providing a comforting and supportive safe space.

ANIMAL REPRODUCTION 11:067:327 Fall 2020 Schedule of Topics, Quizzes and Exams (MTh 2)

Note: Change in class schedule in 2nd week of classes*

Module	Date	Lec #	Topic	Chap #	Instructor
1	Sept 3 (Th)	1	Importance of Reproduction	1	Bagnell
2	Sept 8 (Tues)*	2	Female I	2	Bagnell
<i>*Tuesday, Sept 8 – Change in designation of class day.....Observe Monday class schedule</i>					
	Sept 10 (Th)	3	Female II	2	Bagnell
Quiz # 1: Lectures 1–3; open 9/10 – 9/14 Assignment #1: open 9/6 - 9/10					
3	Sept 14 (Mon)	4	Male	3	Bagnell
	Sept 17 (Th)	5	Reproductive System Development	4	Bagnell
Quiz # 2: Lectures 4 & 5; open 9/17 – 9/21					
4	Sept 21 (Mon)	6	Control of Reproduction I	5	Bagnell
	Sept 24 (Th)	7	Control of Reproduction II	5	Bagnell
5	Sept 28 (Mon)	8	Control of Reproduction III	5	Bagnell
Quiz # 3: Lectures 6–8; open 9/28 – 10/2 Assignment #2: open 9/27 - 10/1					
	Oct 1 (Th)	Review for First Exam			
	Oct 5 (Mon) 10:55 AM–12:15 PM	EXAM 1: Lectures 1 through 8			
6	Oct 8 (Th)	9	Puberty	6	Bagnell
7	Oct 12 (Mon)	10	Estrous Cycle	7	Bagnell
Quiz # 4: Lectures 9 & 10; open 10/12 – 10/16 Assignment #3: open 10/11 - 10/15					
	Oct 15 (Th)	11	Follicular Phase	8	Bagnell
8	Oct 19 (Mon)	12	Ovulation	8	Bagnell
Quiz # 5: Lectures 11 & 12; open 10/19 – 10/23					
	Oct 22 (Th)	13	Luteal Phase	8	Bagnell
9	Oct 26 (Mon)	14	Spermatogenesis 1	10	Snyder
	Oct 29 (Th)	15	Spermatogenesis 2	10	Snyder
Quiz # 6: Lectures 13–15; open 10/29 – 11/2 Assignment #4: open 10/25 - 10/29					
10	Nov 2 (Mon)	16	Fertilization	8	Bagnell

Module	Date	Lec #	Topic	Chap #	Instructor
	Nov 5 (Th) 10:55 AM-12:15 PM	EXAM 2: Lectures 9 through 16			
11	Nov 9 (Mon)	17	Reproductive Behavior 1 - Female	11	Roepke
	Nov 12 (Th)	18	Reproductive Behavior 2 - Male	11	Roepke
Quiz # 7: Lectures 17 & 18; open 11/12 – 11/16					
12	Nov 16 (Mon)	19	Pregnancy 1	13	Bagnell
	Nov 19 (Th)	20	Pregnancy 2	13	Bagnell
Quiz # 8: Lectures 19 & 20; open 11/19 – 11/23 Assignment #5: open 11/15 - 11/19					
13	Nov 23 (Mon)	21	Parturition	13	Bagnell
<i>Wednesday, November 25.....Observe Friday Schedule</i>					
<i>Thursday, November 26.....Thanksgiving Recess</i>					
14	Nov 30 (Mon)	22	Postpartum Events	13	Bagnell
Quiz # 9: Lectures 21 & 22; open 11/30 – 12/4					
	Dec 3 (Th)	23	Equine Reproduction		Bagnell
15	Dec 7 (Mon)	24	Reproductive Technologies		Bagnell
Quiz # 10: Lectures 23 & 24; open 12/7 – 12/11 Assignment #6: open 12/6 - 12/10					
	Dec 10 (Th)	Review for Exam 3: Lectures 17 through 24			
<i>Friday, December 11 & Monday, December 14.....Reading Days</i>					
<i>Tuesday, December 15 through Tuesday, December 22.....Final Exams</i>					
	Dec 16 (Wed)	EXAM 3 (given during finals week) will cover Lectures 17 through 24 and will not be comprehensive			

Fall 2020 Schedule of Assignments, Quizzes and Exams
ANIMAL REPRODUCTION 11:067:327; (MTh 2)

All **Quizzes** open and close at **5 PM** (Eastern Time)

All **Assignments** open and close at **1 PM** (Eastern Time)

Exams 1 and 2 are scheduled during class time (10:55 AM- 12:15 PM)

Exam 3 will be scheduled during finals week (TBD)

Unit 1 - Lectures 1-8

	<u>Open</u>	<u>Due/Closed</u>
Assignment 1	Sun 9/6 at 1 PM	Thurs 9/10 at 1 PM
Quiz 1 (Lec 1-3)	Thurs 9/10 at 5 PM	Mon 9/14 at 5 PM
Quiz 2 (Lec 4-5)	Thurs 9/17 at 5 PM	Mon 9/21 at 5 PM
Assignment 2	Sun 9/27 at 1 PM	Thurs 10/1 at 1 PM
Quiz 3 (Lec 6-8)	Thurs 9/28 at 5 PM	Mon 10/2 at 5 PM
EXAM 1 (lec 1-8)	During class time Mon 10/5	

Unit 2 - Lectures 9-16

	<u>Open</u>	<u>Due/Closed</u>
Assignment 3	Sun 10/11 at 1 PM	Thurs 10/15 at 1 PM
Quiz 4 (Lec 9-10)	Thurs 10/12 at 5 PM	Mon 10/16 at 5 PM
Quiz 5 (Lec 11-12)	Thurs 10/19 at 5 PM	Mon 10/23 at 5 PM
Assignment 4	Sun 10/25 at 1 PM	Thurs 10/29 at 1 PM
Quiz 6 (Lec 13-15)	Thurs 10/29 at 5 PM	Mon 11/2 at 5 PM
EXAM 2 (Lec 9-16)	During class time Thur 11/5	

Unit 3 - Lectures 17-24

	<u>Open</u>	<u>Due/Closed</u>
Quiz 7 (Lec 17-18)	Thurs 11/12 at 5 PM	Mon 11/16 at 5 PM
Assignment 5	Sun 11/15 at 1 PM	Thurs 11/19 at 1 PM
Quiz 8 (Lec 19-20)	Thurs 11/19 at 5 PM	Mon 11/23 at 5 PM
Quiz 9 (Lec 21-22)	Mon 11/30 at 5 PM	Fri 12/4 at 5 PM
Assignment 6	Sun 12/6 at 1 PM	Thurs 12/10 at 1 PM
Quiz 10 (Lec 23-24)	Mon 12/7 at 5 PM	Fri 12/11 at 5 PM
EXAM 3 (Lec 17-24)	Wed, Dec 16; 12 - 3 PM	