

## COURSE NAME, NUMBER, SEMESTER

Animal Reproduction  
11:067:327 Fall 2022

## MEETING DAYS, TIMES, AND PLACE

Class meetings will be held in person on M/W 4th period; 2:00-3:20 PM (Eastern Time) in the Cook-Douglas Lecture Hall, Room 110.

Rutgers COVID precautions: Face coverings **are required** in all indoor teaching spaces and libraries. Compliance is mandatory

## 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](mailto:cbagnell@sebs.rutgers.edu)

Please send emails to my RUTGERS EMAIL Address. Canvas emails are harder for me to respond to.

Instructor: Troy Roepke, PhD

Office Location: Bartlett Hall 305-B

Phone: 848-932-9454 email: [tr246@sebs.rutgers.edu](mailto:tr246@sebs.rutgers.edu)

Instructor: Elizabeth Snyder, PhD

Office Location: Foran Hall 328B

Phone: 848-932-6377 email: [elizabeth.snyder@rutgers.edu](mailto:elizabeth.snyder@rutgers.edu)

## UNDERGRADUATE TAs:

Michaela Ashworth and Adrianna Sweeney

## 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 2022 under the Courses tab. For help, email [help@canvas.rutgers.edu](mailto:help@canvas.rutgers.edu) or call the Canvas Help Desk at 833-648-4357 (24h/7 days a week). Course materials will be posted in Modules.

- Recommended text: *Pathways to Pregnancy and Parturition* by PL Senger, Current Conceptions, Inc., 3<sup>rd</sup> edition, 2012 (softcover)
- Technology requirements
  - Packback FAQ on Canvas
  - Computer or mobile device (smartphone/tablet) less than five years old.
  - Webcam, speakers/headphones/earbuds for listening to audio or videos.
  - High-speed 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 (Total 70%): Exam 1 (20%), Exam 2 (25%), Exam 3 (25%)
- 10 Online quizzes (10%)
- 5 Assignments (10%)
- 10 Online Discussions using Packback (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 (2:00-3:20 PM). 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 days 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. Assignment responses will be submitted online using Canvas.

Discussions using Packback will be posted weekly and **due on Sundays at 11:59 PM Eastern time**. Credit will be given for your participation asking and responding to student generated questions about Animal Reproduction

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/getting-registered>  
Full policies and procedures are at <https://ods.rutgers.edu/>

## **ABSENCE POLICY**

Students are expected to attend all classes. If you have a legitimate medical excuse for missing an exam, please notify me at least 24 hrs 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** <http://academicintegrity.rutgers.edu/>

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**

Counseling, ADAP, & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901/ [www.rhscaps.rutgers.edu/](http://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 professionals 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/](http://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/getting-registered>

**ANIMAL REPRODUCTION 11:067:327**  
**Fall 2022 Schedule of Topics, Quizzes, and Exams (M/W 4)**

Module	Date	Lec #	Topic	Chap #	Instructor
1	Sept 7 (Wed)	1	Importance of Reproduction	1	Bagnell
	Sept 11 (Sun)		<b>DUE Packback #1 - Week 1</b>		
2	Sept 12 (Mon)	2	Female I	2	Bagnell
	Sept 14 (Wed)	3	Female II	2	Bagnell
	<b>Quiz # 1: Lectures 1-3; open 9/14 – 9/19</b> <b>Assignment #1 Nobel Prize: open 9/11 – 9/15</b>				
	<i>Thursday, Sept 15 ..... Last day to ADD or DROP a class without a W grade</i>				
	Sept 18 (Sun)		<b>DUE Packback #2 - Week 2</b>		
3	Sept 19 (Mon)	4	Male	3	Snyder
	Sept 21 (Wed)	5	Reproductive System Development	4	Roepke
	<b>Quiz # 2: Lectures 4 &amp; 5; open 9/21 – 9/26</b> <b>Assignment #2 Plant Hormones: open 9/25 – 9/29</b>				
	Sept 25 (Sun)		<b>DUE Packback #3 - Week 3</b>		
4	Sept 26 (Mon)	6	Control of Reproduction I	5	Bagnell
	Sept 28 (Wed)	7	Control of Reproduction II	5	Bagnell
	Oct 2 (Sun)		<b>DUE Packback #4 - Week 4</b>		
5	Oct 3 (Mon)	8	Control of Reproduction III	5	Bagnell
	<b>Quiz # 3: Lectures 6-8; open 10/3 – 10/6</b>				
	Oct 5 (Wed)		Review for First Exam – Lectures 1-8		
	Oct 9 (Sun)		<b>No Packback Week 5 – prepare for Exam 1</b>		
6	<b>Oct 10 (Mon)</b> 2:00- 3:20 PM		<b>EXAM 1: Lectures 1 through 8</b>		
	Oct 12 (Wed)	9	Puberty	6	Bagnell
	Oct 16 (Sun)		<b>DUE Packback #5 -Week 6</b>		
7	Oct 17 (Mon)	10	Estrous Cycle	7	Bagnell
	Oct 19 (Wed)	11	Follicular Phase	8	Bagnell
	<b>Quiz # 4: Lectures 9 - 11; open 10/19 – 10/24</b> <b>Assignment #3 Hormone Feedback: open 10/23 – 10/27</b>				
	Oct 23 (Sun)		<b>DUE Packback #6 - Week 7</b>		

Module	Date	Lec #	Topic	Chap #	Instructor
8	Oct 24 (Mon)	12	Ovulation	8	Bagnell
	Oct 26 (Wed)	13	Luteal Phase	9	Bagnell
<b>Quiz # 5: Lectures 12 &amp; 13; open 10/26 – 10/31</b>					
	Oct 30 (Sun)		<b>DUE Packback #7 - Week 8</b>		
9	Oct 31 (Mon)	14	Reproductive Behavior 1 - Male	11	Roepke
	Nov 2 (Wed)	15	Reproductive Behavior 2 - Female	11	Roepke
<b>Quiz # 6: Lectures 14 &amp; 15; open 11/2 – 11/7</b>					
<b>Assignment #4 Immunocontraception: open 11/6 – 11/10</b>					
	Nov 6 (Sun)		<b>No PB Week 9 – prepare for Exam 2</b>		
10	Nov 7 (Mon)	16	Fertilization	12	Bagnell
	<b>Nov 9 (Wed)</b> 2:00–3:20 PM	<b>EXAM 2: Lectures 9 through 16</b>			
	Nov 13 (Sun)		<b>No Packback Week 10</b>		
11	Nov 14 (Mon)	17	Spermatogenesis 1	10	Bagnell
	Nov 16 (Wed)	18	Spermatogenesis 2	10	Bagnell
	Nov 20 (Sun)		<b>DUE Packback #8 - Week 11</b>		
<b>Quiz # 7: Lectures 17 &amp; 18; open 11/16 – 11/21</b>					
12	Nov 21 (Mon)	19	Pregnancy 1	13	Bagnell
<i>Wednesday, November 23.....Observe Friday Class Schedule</i>					
<i>Thursday, November 24 - 27.....Thanksgiving Recess</i>					
	Nov 27 (Sun)		<b>No Packback Week 12 - Thanksgiving</b>		
13	Nov 28 (Mon)	20	Pregnancy 2	14	Bagnell
<b>Quiz # 8: Lectures 19 &amp; 20; open 11/28 – 12/1</b>					
	Nov 30 (Wed)	21	Parturition	15	Bagnell
	Dec 4 (Sun)		<b>DUE Packback #9 - Week 13</b>		
14	Dec 5 (Mon)	22	Postpartum Events		Bagnell
<b>Quiz # 9: Lectures 21 &amp; 22; open 12/5 – 12/8</b>					
<b>Assignment #5 Oocyte &amp; Sperm Story: open 12/4 – 12/8</b>					
	Dec 7 (Wed)	23	Equine Reproduction		Bagnell
	Dec 11 (Sun)		<b>DUE Packback #10 - Week 14</b>		

<b>Module</b>	<b>Date</b>	<b>Lec #</b>	<b>Topic</b>	<b>Chap #</b>	<b>Instructor</b>
15	Dec 12 (Mon)	24	Reproductive Technologies		Bagnell
<b>Quiz # 10: Lectures 23 &amp; 24; open 12/12 – 12/14</b>					
	Dec 14 (Wed)		Review Exam 3: Lectures 17 through 24; Last day of classes		
<b>No Packback – Week 15</b>					
<i>Thursday, December 15.....Reading Day</i>					
<i>Friday, December 16 – Thursday, December 22..... Final Exams</i>					
	Dec 21 (Wed) 4:00 – 7:00 PM		<b>EXAM 3 (given during finals week) will cover Lectures 17 through 24</b>		

**Fall 2022 Schedule of Assignments, Quizzes, and Exams**  
**ANIMAL REPRODUCTION 11:067:327; (MTh 4)**

All assignments open on Sunday at 1 PM and close on Thurs at **11:59 PM**

All quizzes open at 5 PM and close at **11:59 PM** (Eastern Time)

	<u>Open</u>	<u>Due/Closed</u>
<b>Unit 1 Lectures 1-8</b>		
<b>Assignment 1 Nobel Prize</b>	<b>Sun 9/11 @ 1 PM</b>	<b>Thur 9/15 @ 11:59 PM</b>
Quiz 1 (Lec 1-3)	Wed 9/14 at 5 PM	Mon 9/19 at 11:59 PM
Quiz 2 (Lec 4 & 5)	Wed 9/21 at 5 PM	Mon 9/26 at 11:59 PM
<b>Assignment 2 Plant Hormone</b>	<b>Sun 9/25 @ 1 PM</b>	<b>Thur 9/29 @ 11:59 PM</b>
Quiz 3 (Lec 6-8)	Mon 10/3 at 5 PM	Thurs 10/6 at 11:59 PM
<b>EXAM 1 (Lec 1-8)</b>	Mon 10/10 @ 2 – 3:20 PM	

	<u>Open</u>	<u>Due/Closed</u>
<b>Unit 2 Lectures 9-16</b>		
Quiz 4 (Lec 9, 10, 11)	Wed 10/19 at 5 PM	Mon 10/24 at 11:59 PM
<b>Assignment 3 Horm Feedback</b>	<b>Sun 10/23 @ 1 PM</b>	<b>Thur 10/27 @ 11:59 PM</b>
Quiz 5 (Lec 12 & 13)	Wed 10/26 at 5 PM	Mon 10/31 at 11:59 PM
Quiz 6 (Lec 14 & 15) No quiz on Lec 16	Wed 11/2 at 5 PM	Mon 11/7 at 11:59 PM
<b>EXAM 2 (Lec 9-16)</b>	Wed 11/9 @ 2 – 3:20 PM	

	<u>Open</u>	<u>Due/Closed</u>
<b>Unit 3 Lectures 17-24</b>		
<b>Assign 4 Contracep Vaccines</b>	<b>Sun 11/6 @ 1 PM</b>	<b>Thur 11/10 @ 11:59 PM</b>
Quiz 7 (Lec 17 & 18)	Wed 11/16 at 5 PM	Mon 11/21 at 11:59 PM
Quiz 8 (Lec 19 & 20)	Mon 11/28 at 5 PM	Thur 12/1 at 11:59 PM
Quiz 9 (Lec 21 & 22)	Mon 12/5 at 5 PM	Thur 12/8 at 11:59 PM
<b>Assign 5 Oocyte &amp; Sperm</b>	<b>Sun 12/4 @ 1 PM</b>	<b>Thur 12/8 @ 11:59 PM</b>
Quiz 10 (Lec 23 & 24)	Mon 12/12 at 5 PM	Wed 12/14 at 11:59 PM
<b>EXAM 3 (Lec 17-24)</b>	Finals week - TBD	

## Discussions Using Packback Questions Platform

Participation is a requirement for this course, and the Packback Questions platform will be used for online discussion about class topics. Packback Questions is an online community where you can be curious and ask open-ended questions to build on top of what we are covering in class and relate topics to real-world applications.

### Packback Requirements:

Your participation on Packback will count toward 10% of your overall course grade.

There will be a weekly **Sunday at 11:59 PM EST** deadline for submissions. In order to receive full credit, you should submit the following per each deadline period:

- 1 open-ended Question every week with a minimum Curiosity Score of 50, worth 33.33% of each assignment grade
- 2 Responses every week with a minimum Curiosity Score of 50, worth 66.67% of each assignment grade
- Half credit will be provided for questions and responses that do not meet the minimum curiosity score.

### How to Register and Access Packback:

Note: Only access Packback through **CANVAS** in order to ensure your grades sync properly in Gradebook

1. To start, go to the **Animal Reproduction – Fall 2022 CANVAS** site, Module 1. Click the Packback assignment link in Module 1.
2. Follow the instructions on your screen to finish your registration.
3. Each module with a Packback assignment will have a Packback link. **In order for your grade to be visible in CANVAS Gradebook**, make sure to click on each Packback assignment link in the module to post your Packback submissions.

Packback requires a paid subscription. Refer to [www.packback.co/product/pricing](http://www.packback.co/product/pricing) for more information.

### How to Get Help from the Packback Team:

If you have any questions or concerns about Packback throughout the semester, please read their FAQ at [help.packback.co](http://help.packback.co). If you need more help, contact their customer support team directly at [help@packback.co](mailto:help@packback.co).

For a brief introduction to Packback Questions and why we are using it in class, watch this video:

<https://www.youtube.com/watch?v=OV7QmkrD68>