Comparative Mammalian Anatomy

Course #:	11:067:391 SRING 2023 – 3cr.
Prerequisites:	Biology (116-117), open to Juniors/Seniors
Time:	M, Th 10:20-11:40 (Bartlett Hall RM 123)
Location:	Canvas (https://rutgers.instructure.com/courses/215979)
Instructors:	**Carey Williams, Ph.D.** Office: 213E Bartlett Hall
	carey.williams@rutgers.edu Phone: 848-932-5529
	Email for Appointment for office hours
TAs:	**TBA**

Course Description:

This is an upper-level course on anatomy of bodily systems in domestic animals.

Course Objectives:

At the conclusion of this course you will be able to:

1. Understand and explain body systems and how they are integrated in a healthy mammal (PLG 3[*])
   - Assessment: Online quizzes
2. Identify species differences between selected mammals' anatomical systems (PLG 3 & 6)
   - Assessment: Online quizzes, a final exam and a group project
3. Evaluate and effectively communicate with a team of student peers the research performed to assess a comparative aspect of animal anatomy (PLG 3 & 6)
   - Assessment: Oral and written components of group project

Course Format:

- Classroom lectures – PowerPoint presentations, animal models and skeletons, and other demonstrations
- Laboratory – Animal limb and organ dissections and veterinarian-facilitated necropsy
- Videos and computer programs to illustrate the various organ systems and their functions
- Group project with paper and presentation

Texts/Other Materials:

1. REQUIRED: Anatomy of Domestic Animals, Pasquini, Spurgeon, and Pasquini. Sudz Publishing, 2007, 11th ed. (ISBN 0-9623114-2-1)
2. Supplemental handouts and videos posted on Canvas

[*] See https://animalsciences.rutgers.edu/undergraduate/mission.html for the Animal Science Program Learning Goals (PLGs).

Technology Requirement:

For this course, it is recommended that you meet the technical requirements below.

- A computer (desktop/laptop) or mobile device (smartphone/tablet) that is less than 5 years old.
- Speakers/headphones/earbuds for listening to audio or videos.
- Webcam for video test proctoring (Respondus required), or other third-party tools.
- A stable Internet connection. A speed at or above 25 Mbps is recommended for smooth video stream and conferencing.

Grading:

The grade is based on quizzes, a final exam, and a final project.

1. Each week the lectures will be posted in Canvas on the Sat. prior to the week of that system. It is your responsibility to listen to the lectures prior to coming to class. To ensure that the lectures are watched there will be a short 5-point multiple choice PackBack Poll quiz due each **Thur. at 10 AM before class** during the weeks there are system lectures (The first graded poll will be due Sept. 29th, the Skeletal system polls will be in class and ungraded). The 8 Thur. lecture PackBack Polls will total 40 points. See the end of Syllabus for more information on PackBack.
2. There will also be 8 system quizzes over the course of the semester (50 pts. each). The lowest of the 8 system quizzes will be dropped for a total of 350 points worth of quizzes. Each system quiz will be administered in Canvas and due on **Saturday at Midnight** of the week that system was taught (note Skeletal, Muscular, and Circ/lymph/urinary are taught over 2 weeks, therefore, the quiz is on Saturday of the second week for each of those systems). Quizzes will include a combination of diagrams/pictures, fill-in the blank, short answer and essay questions. **There will be NO makeup quizzes (see policy below)!**
3. There will a final exam (200 pts.) that will be scheduled during final exam week. The final exam will follow the same format as the quizzes.
4. The final group project (200 pts.) grading and details are described on Canvas.

System Quizzes (44.3% of grade) =	350	A = 90-100%
PackBack Thur. Polls (5.1%) =	40	B+ = 87-89%
Final Exam (25.3%) =	200	B = 80-86%
Final group project (25.3%) =	200	C+ = 77-79%
Total Points =	**790**	C = 70-76%
		D = 60-69%
		F = < 59

Group Project:

Details of the project and all deadlines will be on Canvas.

Course Website:

Canvas: https://rutgers.instructure.com/courses/215979. Login to the site using your NetID and password. If you are enrolled in the course there should be a tab identified by the course number.

Late or Missed Classes:

Students are expected to attend all classes; if you expect to miss one or two classes, please use the University absence reporting website https://sims.rutgers.edu/ssra/ to indicate the date and reason for

your absence. An email is automatically sent to me. If you do have to miss a class, it is up to you to check the course website to see what will be/was expected.

There will be NO MAKE UP Quizzes or Exams! If there is an extreme circumstance you must contact the 'Dean of Students' who will then notify your professors of the situation and accommodations can be made.

Academic Integrity:

The university's policy on Academic Integrity is available at https://academicintegrity.rutgers.edu/sites/default/files/pdfs/current.pdf.

SEBS DEI Statement:

It is our intention that students of all backgrounds will be well served by this course. We will work to create an environment of inclusion which respects and affirms the inherent dignity, value, and uniqueness of all individuals, communities, and perspectives. We are lucky to have a diverse university. Diverse voices and life experiences enhance the learning process, and we welcome students to share their personal experiences. We will not tolerate disrespectful language or behavior against any individual or group. If you feel as though you have been disrespected or treated unfairly by the instructors or any other individual, please let us know. You may speak with the instructors in person, over email or report anonymously via the Office of Academic Programs. In addition, you may also report bias to the Rutgers Diversity and Inclusion initiative using this link: http://inclusion.rutgers.edu/report-bias-incident/.

Support Services:

Counseling, ADAP & Psychiatric Services (CAPS) (848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901/ www.rhscaps.rutgers.edu/

Violence Prevention & Victim Assistance (VPVA) (848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / www.vpva.rutgers.edu/

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

DoSomething button through Rutgers Dean of Students office: http://health.rutgers.edu/do-something-to-help/

Wellness Coaching through Rutgers HOPE: http://health.rutgers.edu/education/hope/wellness-coaching/

Self-Help Apps found on the Rutgers Student Health website: http://health.rutgers.edu/education/self-help/self-help-apps/

NJ Hopeline - (1-855-654-6735) | National Suicide Hotline - (1-800-273-825)

Course Schedule: (subject to change)

Week of…	Lecture Topics	*Deadlines/Exams*	Reading
Jan. 17	Intro, Syllabus Pre-test Review of anatomical terminology		Ch. 1
Jan. 24	Skeletal system		Ch. 2 & 3
Jan. 30	Skeletal system, conn. 30th = Skeletal Lab (Round House)** Group meet (2nd)	*Q** *Get project groups and topics (2nd)*	Ch. 2 & 3
Feb. 6	Muscular system		Ch. 4
Feb. 13	Muscular system, conn. 13th & 16th = Muscle Lab (Round House)**	*Q*	Ch. 4
Feb. 20	Circulatory/lymph & Urinary systems Group meet (20th)	*Project proposals due (23rd)*	Ch. 7, 9
Feb. 27	Circ/lymph & Urinary systems, conn. 27th = Heart/Kidney Lab (Round House)	*Q*	Ch. 7, 9
Mar. 6	Digestive system	*Q*	Ch. 5
Mar. 13	SPRING BREAK		
Mar. 20	Respiratory system Group meet (20th)	*Paper Outline/Rough Draft due (23rd)* *Q*	Ch. 6
Mar. 27	Reproductive system Start Nervous system	*Q*	Ch. 8
Apr. 3	Nervous system, conn. 6th = Brain Lab (Round House)	*Q*	Ch. 10
Apr. 10	Integument, Eye & Ear Group meet (13th)	*Q*	Ch. 11
Apr. 17	17th = Necropsy (PSARF) – Dr. Mike Fugaro (Mountain Pointe Equine)?? Final Presentations Final Exam Review	*Papers Due (20th)*	
Apr. 24	Final Presentations Final Exam Review		

May 1	Final Presentations, conn. Final Exam Review	*Final Exam – during finals week (on Canvas)*	

Q* <u>You will have 50 min</u> to complete each quiz. Quizzes will use <u>Respondus LockDown Browser</u>. You CANNOT use your book or notes. The time will start when you open the quiz. Make sure you are ready to take the quiz BEFORE you open it. You will only get one attempt at each quiz. Each quiz will open after class on Thur. of each week (minus a few systems who get 2 weeks each, the quiz is due on the second week, see above) and will be due on **<u>Saturday at Midnight</u>** (NO EXCEPTIONS).

**All in person labs will be discussed in detail the class session prior, it is important to attend these sessions so you know what will be going on in lab! Gloves and gowns or lab coats will be provided, but scrubs are ideal to wear if you have them.

FINAL EXAM/PAPER DATE AND TIME:

Online Final exam Schedule: http://finalexams.rutgers.edu/

Packback Questions:

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 fearlessly 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 Thursday at 10:00AM EST** deadline for submissions. In order to receive full credit, you should submit the following per each deadline period:

- 1 Response to Homework Discussion Polls (due before class on Thursday @ 10 am) every week with a minimum Curiosity Score of 50, worth 5 pts of each assignment grade
- Response to In-Class Polls (completed during class as necessary – Random days, not graded)
- Half credit will be provided for answers that do not meet the minimum curiosity score.

How to Register on Packback:

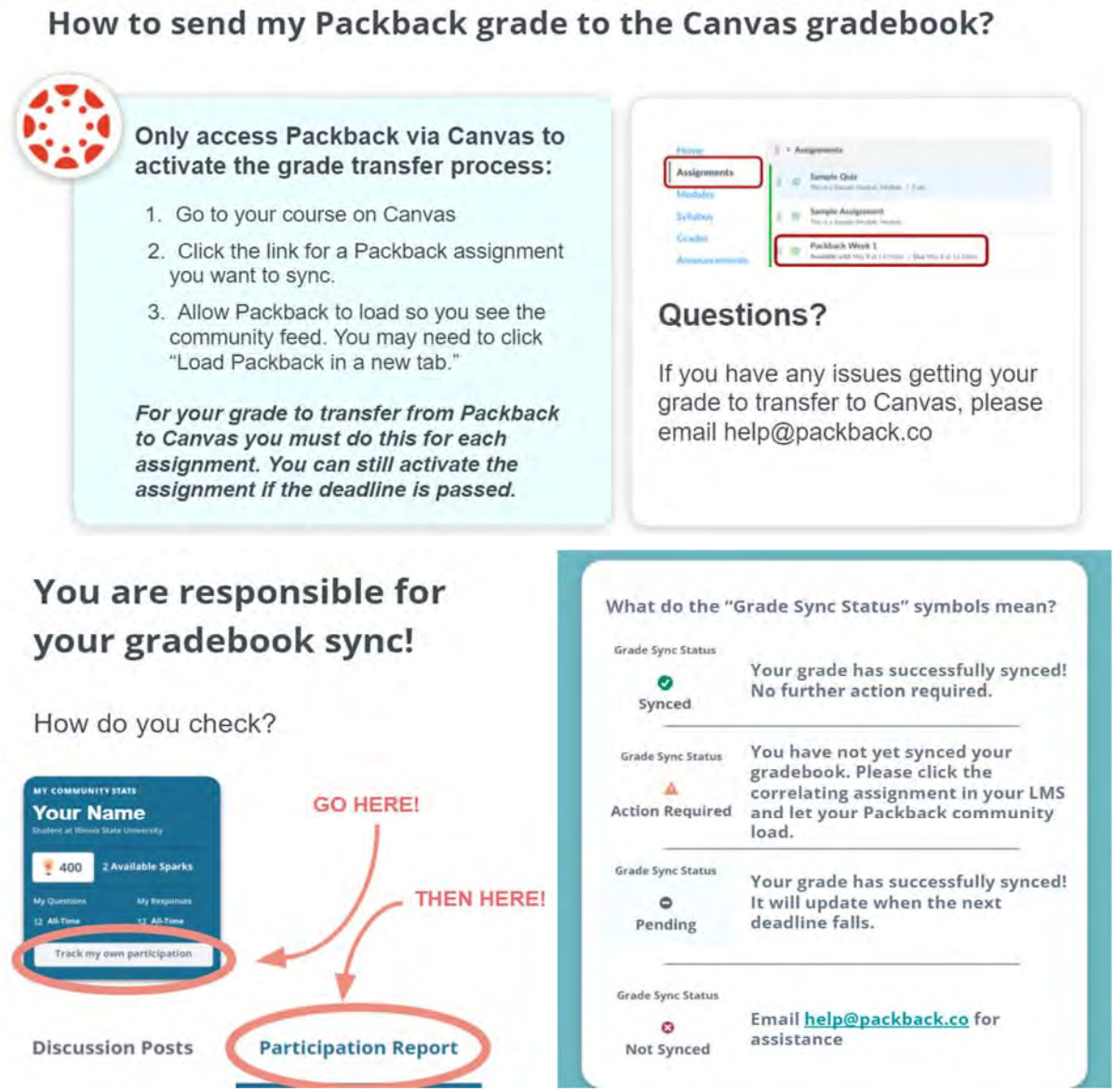
You will register for Packback via Canvas. Navigate to the "Assignments" tab on the left hand side of your screen and click into your first Packback assignment. From there, you'll follow the instructions on your screen to finish registration.

Note: If you already have an account on Packback you can log in with your credentials. If needed, you can enter our class community's lookup key into the "Looking to join a community you don't see here?" section in Packback at the bottom of the homepage.

Community Lookup Key: **7f7cb114-c649-494c-b749-73480ed8c8ca**

Syncing Scores from Packback to Canvas:

Every week, you are responsible for syncing your grades from Packback to Canvas. Here are step by step instructions on how to manage and complete this sync. There are additional instructions below:



Packback may require a paid subscription. Refer to 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. If you need more help, contact their customer support team directly at 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=OV7QmikrD68.