

# *Comparative Mammalian Anatomy*

Course #:	11:067:391	Fall 2020 – 3cr.
Prerequisites:	Biology (116-117), open to Seniors only	
Time:	Synchronous Remote: Recorded lectures with synchronous discussions, reviews and labs M, Th 12:35 – 1:55	
Location:	Canvas ( <a href="https://rutgers.instructure.com/courses/70822">https://rutgers.instructure.com/courses/70822</a> )	
Instructor:	<b>Carey Williams, Ph.D.</b> <a href="mailto:carey.williams@rutgers.edu">carey.williams@rutgers.edu</a>	Office: 213E Bartlett Hall Phone: 848-932-5529
Office Hours:	Email for Appointment Only	
TAs:	Jennifer Weinert, PhD candidate <a href="mailto:Jennifer.weinert@rutgers.edu">Jennifer.weinert@rutgers.edu</a>	

## 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:

- Online recorded lectures – PowerPoint presentations, animal models and skeletons, and other demonstrations will be recorded and posted online to view at your convenience.
- Laboratory and Discussions – Videos and computer programs to illustrate the various organ systems and their functions will be used to facilitate the online discussions and labs.
- Group project with a written paper and virtual presentations.

## Texts/Other Materials:

1. REQUIRED: Anatomy of Domestic Animals, Pasquini, Spurgeon, and Pasquini. Sudz Publishing, 2007, 11<sup>th</sup> 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 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.

## Grading:

The grade is based on quizzes, a final exam, and a final project. There will be 10 system quizzes over the course of the semester (40 pts each). The lowest of the 10 system quizzes will be dropped for a total of 360 points worth of quizzes. Each system quiz will be due on Sunday at Midnight of the week that system was taught (note Skeletal and Muscular are taught over 2 weeks, the quiz is on Sunday of the second week for each of those systems). There will a final exam (200 pt) that will be scheduled during final exam week. Quizzes and the final exam will include a combination of diagrams/pictures, fill-in the blank, short answer and essay questions. **There will be NO makeup quizzes or exams (see policy below)!** The final project (200 pts.) grading and details are described on Canvas.

System Quizzes =	360	A = 90-100%
Final Exam =	200	B+ = 87-89%
Final group project =	200	B = 80-86%
<b>Total Points =</b>	<b>760</b>	C+ = 77-79%
		C = 70-76%
		D = 60-69%
		F = < 59%

## Group Project:

To be completed in groups of 3-4. Projects will be based on research of a comparative anatomy topic of their choice that will be approved by me by a given date. The groups will critically evaluate at least 3 scientific papers (one for each person in the group) to be presented orally (virtually) and as a final paper. ***Details of the project and all deadlines will be Canvas.***

## Course Website:

Canvas: <https://rutgers.instructure.com/courses/70822>. 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:

All students are expected to follow University policies on academic integrity:  
<https://nbprovost.rutgers.edu/academic-integrity-students>

### Support Services:

Please visit the support services page in Canvas in the course information on Academic Support, Disability Services, and Technology Accessibility and Privacy Policies.

### Turnitin:

Students agree that by taking this course all required papers may be subject to submission for textual similarity review to Turnitin.com (directly or via learning management system, i.e. Sakai, Blackboard, Canvas, Moodle) for the detection of plagiarism. All submitted papers will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Usage Policy posted on the Turnitin.com site.

Students who do not agree should contact the course instructor immediately.

### Course Schedule:

Week of...	Lecture Topics	Deadlines/Exams	Reading
<b>Sept. 1</b>	Intro, Syllabus Pre-test Review of anatomical terminology		Ch. 1
<b>Sept. 8 (Tues. Class)</b>	Skeletal system		Ch. 2 & 3
<b>Sept. 14</b>	Skeletal system, conn.	<i>Project groups due Q*</i>	Ch. 2 & 3
<b>Sept. 21</b>	Muscular system		Ch. 4
<b>Sept. 28</b>	Muscular system, conn.	<i>Project topics due Q</i>	Ch. 4
<b>Oct. 5</b>	Circulatory system	Q	Ch. 9
<b>Oct. 12</b>	Urinary system	<i>Paper Outline + at least 3 references Q</i>	Ch. 7

<b>Oct. 19</b>	Respiratory system	Q	Ch. 6
<b>Oct. 26</b>	Reproductive system	Q	Ch. 8
<b>Nov. 2</b>	Digestive system	<i>Paper Rough Draft due</i> Q	Ch. 5
<b>Nov. 9</b>	Nervous system	Q	Ch. 10
<b>Nov. 16</b>	Eye & Ear	Q	Ch. 11
<b>Nov. 23</b>	Lymphatic System & Integument	<i>Papers Due</i> Q	Ch. 9 & 11
<b>Nov. 30</b>	Final Presentations		
<b>Dec. 7</b>	Final Presentations, conn. Final Exam Review	<i>Final Exam – during finals week</i>	

**Q\*** You will have 40 min to complete each quiz. 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 Skeletal and Muscular who get 2 weeks each, the quiz is due on the second week) and will be due on Sunday at Midnight.