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ANS 497 Comparative Vertebrate Osteology

CRN 30331

COURSE SYLLABUS: May Mini 2022

Hybrid: Online with 3 mandatory face to face labs

INSTRUCTOR INFORMATION

Instructor: **Dr. Amy DeLisle MEd, DVM**

Office Location: AGIT 233A or Vet Tech Lab

Office Hours: by appointment

Office Phone: 903-886-5680 or office at Vet Tech Lab 903-886-5203

Office Fax: 903-886-5990

University Email Address: Amanda.Delisle@tamuc.edu

Preferred Form of Communication: email

Communication Response Time: 48 hours

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required:

- Reading material will be provided

Textbooks Recommended:

- **Anatomy of Domestic Animals, Systemic & Regional Approach, 11th edition**
 - By Pasquini
 - ISBN-13: 978-0962311420

Software Required: Any Internet vehicle including Google Chrome, Firefox, etc that follows that below supported browsers. Also, lecture materials, supplemental worksheets, videos, and slides will be available on D2L which will need to be opened using Adobe PDF, Microsoft Word, and Microsoft Power Point.

The syllabus/schedule are subject to change.

Optional Texts and/or Materials: There will be links to images, videos, and other supplemental materials.

Course Description

This course will cover the study of osteology, bone growth and development, physiology and pathology across the animal kingdom. Skeletal evolution and adaptations will also be compared across species. All parts of skeletal anatomy of common domestic animals will be covered. Clinical applications will include fractures, surgery, oncology and radiographic interpretations. There will be three mandatory Thursday labs, one of which will be a field trip to the Museum of Osteology in Oklahoma City with transportation provided. Out of pocket cost will be approximately \$30.

Student Learning Outcomes

1. The student will apply gross and microscopic anatomy of the skeletal system clinically, including radiographic interpretation.
2. The student will identify and describe the anatomy of the skeletal system for cats, dogs, ruminants, horses, birds and reptiles using prepared slides, skeletons, and models.
3. The student will have an understanding of normal physiology of the skeletal system and how deviations from normal are the bases for animal disease.
4. The student will understand adaptive and evolutionary trends of selected vertebrate species.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Examples include: Using the learning management system, using Microsoft Word and PowerPoint, using presentation and graphics programs, etc.

Instructional Methods

This course will be using the d2L learning platform with face to face labs. D2L is how lectures content, assignments, discussions and quizzes/tests will be delivered.

Student Responsibilities or Tips for Success in the Course

- **Participation:**
 - This is a very fast paced course and all content will be delivered over 3 weeks.
 - Regularly logging into the course website

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- 2-3 times daily
 - approximately 4-6 hours of daily study
 - 2-4 hours of participation time expected.
- These anticipated times are an estimation and may require more or less.
- **Mandatory Face to Face Labs**
 - Thursday 10am – 4pm with a lunch break
 - 5/19: AGIT 253
 - 5/26: Field Trip to Museum of Osteology
 - 6/2: AGIT 253
- **Field Trip:**
 - We will leave campus at 7am in a university provided vehicle
 - 4 hour drive to OKC each way, will stop at least once for food and bathrooms
 - Food costs estimated at \$18 for lunch and dinner (fast food)
 - Museum Admission \$12 YOU WIL BE RESPONSBILE FOR THIS COST
 - We will plan on leaving no later than 5pm and returning around 9pm.
- The student will be held responsible for being familiar with all material presented in lectures, readings, and classmates' presentations.
- The student is expected to participate in all course activities and complete all examinations and course assignments on time.
- Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time via email and on the Top Hat website. It is the student's responsibility to be informed of these changes. It is the student's responsibility to be informed about deadlines concerning registration (e.g., last day for withdrawal).
- **Communication:**
 - The instructor will communicate with students through email and the D2L website.

GRADING

1. **Participation/ Attendance**
 - You are expected to "come to class".
 - With a web based only class, that's means you need to be logging in and participating weekly.
 - It is highly recommend that you log in daily to ensure you do not miss any due dates, quizzes or assignments.
2. **Assignments/ Worksheets**
 - There will be a variety of worksheets/assignments/homework etc.
 - **Late work:** Work will be due at a specific date and time which is clearly indicated. **NO LATE WORK WILL BE ACCEPTED!**

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3. Journal Club and Rounds:

- As is a common practice in veterinary medicine we will have discussions aka “Rounds”.
- You will be expected to comment on at LEAST 2 other classmates. A good back and forth with comments, thoughts and additional questions are what makes “Rounds” a useful tool for learning even more from each other.
- These posts need to be well thought out and exhibit critical thinking and meet all points listed within the initial discussion prompt to receive full credit. All posts and replies to posts need to be professional.
- This is often done in an online format on the Veterinary Support Personnel Network (VSPN) and Veterinary Information Network (VIN) and in a face to face format in vet tech school, vet school, internships and residency programs. It is a crucial learning tool in veterinary medicine.

4. Mandatory Labs:

- Missing any of the 3 labs will result in a failure of the course
- You must show up prepared for the lab:
 - i. Appropriate dress
 1. Closed toed shoes
 2. Scrubs
 3. Lab coat
 4. Pen/pencil, paper, textbooks
 - ii. Having done any pre-lab activity required

5. Final Exam 6/2

- The final exam will be comprehensive/cumulative and will be given face to face.
- The final exam format will be specimens to ID structures and questions about species differences and clinical applications.

Participation	50
Journal Club and Rounds 15pts x 10	150
Assignments (20-40 points) x 8	200
Lab Reports (50 points x 3)	150
Quizzes (10-40 points x 10)	150
Exams (50pts x 2)	100
Painted Skull Project	100
Bone ID Exam	100
Total	1000

Final grades in this course will be based on the following scale:

- A = 90%-100%
- B = 80%-89%
- C = 70%-79%
- D = 60%-69%
- F = 59% or Below

Total points corresponding to the final letter grades

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A = 451- 500 Points
B = 401- 450 Points
C = 351- 400 Points
D = 301- 350 Points
F = 300 & > Points

Weights of the assessments in the calculation of the final letter grade.

Example:

Assignments	20%
Discussions	20%
Midterm Exam	30%
Final Exam	30%
TOTAL	100%

Assessments

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

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Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

Interaction with Instructor Statement

The instructor's communication response time and feedback on assessments will be as quickly as possible.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Late work will not be accepted.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

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<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

<https://www.britannica.com/topic/netiquette>

TAMUC Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

[Undergraduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

[Graduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

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Office of Student Disability Resources and Services

Texas A&M University-Commerce

Velma K. Waters Library Rm 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

Nondiscrimination Notice

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

A&M-Commerce Supports Students' Mental Health

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information

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regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel

Department or Accrediting Agency Required Content

COURSE OUTLINE / CALENDAR

	Days	Module	Topics	Assessment
Week 1 May 16 -22	May 16 -22	INTRO	Syllabus and Intro Video	NONE
	May 16	Module 1	Directional Terms/terms	Create/teaching assignment 20pts Quiz 1 10 pts
	May 17	Module 2	Micro-anatomy/Histology	Osteon Drawing 20 pts Quiz 2 10 pts
	May 17	Module 3	Physiology	Bone Growth Drawing 20 pts Quiz 3 10 pts
	May 18	Module 4	EXAM 1	Exam I 50 points
	May 19	Module 5 LAB 1	Lab #1 BONEY PARTS Lab #2 The Skull Lab #3 Axial Skeleton Lab #4 Appendicular Skeleton Lab #5 Radiology (bring laptop or tablet)	Pre-Lab Quiz 10 pts Label skeleton quiz 40 pts Pasquini Assignment 20 pts
	May 20	Module 6	Lab Report	Lab Report 50pts
	May 21-22	Module 7	Online Post Lab quiz 1	Post Lab Quiz 15 pts
Week 2 May 23-29	May23-29	Module 8	Live Palpation	Live Palpation Video 40pts Quiz 4 Live palpation Quiz 10 pts
	May 24	Module 9	Exam II Bone ID	Exam II 50 pts
	May 25	Module 10	Skeletal Adaptations	Evolution Assignment 20 pts JC& Rounds 15 pts
	May 25	Module 11	Mammals and Birds and Reptiles and Fish	Comparative Assignment 20 pts JC & Rounds 15 pts
	May 26	Module 12 LAB 2	OKC Museum of Osteology	Clade Assignment Comparative Bone Assignment JC & Rounds 15pts
	May 27	Module 13	Lab Report	OKCMO Reports 50 pts
	May 28-29	Module 14	OKCMO presentations	OKCMO presentations 30 pts
Week 3 May 30-30	May 30- June 2	Module 15	Basics of Pathology	Quiz 5 15 pts
	May 30	Module 16	Fractures & Fracture Repair	Fracture xray ID assignment 20 pts

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				JC & Rounds 15 pts
	May 31	Module 17	Boney pathology	Assignment 20 pts
	June 1	Module 18	Pathology Presentations	Quiz 6 Bone Disease 15 pts Grad Pathology Presentations 30pts
	June 2	Lab 3	Final Bone ID Complete and turn in painted skulls Activity: Taking Equine Pre-purchase Xrays	Final Exam Bone ID 100 pts Painted Skulls 100 pts Xray of models 50 pts

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