BSC 1413	*ZOOLOGY: SYLLABUS (EARLY)*	*SPRING 2026*

INSTRUCTOR: Dr. Lani Lyman-Henley **Office:** STC 237 (McFarland Science Building)
email: Lani.Lyman-Henley@ETAMU.edu **Course Website:** at MyLeo Online (D2L)
Office Hours: MWF 9-10; appointments as needed
Message via email, text, Discord, & D2L anytime (usual response within 24 hrs.) More contact information will be posted at D2L

REQUIRED TEXTBOOKS
Zoology, 12th Edition. Miller & Tupper. 2024. McGraw-Hill (ISBN: 9781260722185 / 126072218X); any format is ok as long as it is the correct edition. **NOTE:** you do NOT need the "Connect Access" option

You may purchase (or rent) your textbook from any location and in any form (hardbound, paperbound, eText), but be sure you have ready access to the correct edition. A link to the publisher's website (you may save money buying direct):
https://www.mheducation.com/highered/product/zoology-miller.html?isbn=9781260722185

There is no pre-printed laboratory manual for this course; materials will be available in lab and via D2L.

COURSE MEETING TIME/PLACE: MWF 11:00 –11:50, STC 123

COURSE DESCRIPTION: This course is designed for students majoring in Agricultural Science, Plant and Soil Science, Wildlife and Conservation Science, and in Environmental Science. Students are introduced to animal cellular biology and physiology, animal diversity and classification, and the biogeography and ecology of animal populations. Topics covered include cellular metabolism, animal physiology and genetics, developmental biology and architectural patterns, evolution, and the diversity of animal life. Students must register for both lecture and lab sections.

This course is designed to complement *BSC1411 General Botany* with a minimum of overlap, but does include enough Genetics and other basics to understanding biology as needed.
Semester Hours: Four Lecture Lab/ Clock Hours (3 lecture, 2 lab)

LABORATORY: You **must** be enrolled in a BSc1413 laboratory section in order to receive credit for the course. The laboratory will account for **25%** of your final grade. ***The laboratory sessions will begin the SECOND week of classes.*** You will receive a complete schedule, syllabus, and further instructions from your Lab Instructor at the first meeting. All labs meet in STC 228. See the Schedule of Classes for this semester for available lab meeting times http://www.tamuc.edu/schedule/

MATERIAL: This course is intended as a foundation-building course for several practical sciences, including students of Wildlife & Conservation, Animal Sciences, Plant & Soil Sciences, etc. You are expected to read all textbook chapters corresponding to topics covered in lecture, and you are expected to allot adequate time to *regularly* studying the material on your own. It is also strongly recommended that you read the preface of the textbook, with hints on how to best use it. We will not use every chapter of the textbook in lecture, and we may discuss some aspects in more detail than your text goes into- so be sure to keep up with lecture notes! If you miss a lecture, you are still responsible for that day's material- read the chapter, get notes from a

classmate, review powerpoints (posted at D2L) and see me for any clarification. If you have difficulty with the material, feel free to see me *as soon as you can* for advice on how best to improve.

OUTCOMES & ASSESSMENTS: With successful competition of this course, students will be able to demonstrate understanding of the following concepts by definition, explanation, and use of these ideas in examinations and laboratory exercises:

- Fundamental concepts of biology (with emphasis on animal systems), including aspects of cellular and molecular function as well as genetics and evolution.
- Biodiversity and structure/function of organisms traditionally covered in zoology courses- invertebrate and vertebrate animals, as well as protozoan protists.
- Fundamental aspects of animal ecology and conservation.

In addition, students will communicate ideas and concepts developed in the course through written and multimedia presentations.

CORE LEARNING OBJECTIVES:

- Students will be able to discern between relevant and irrelevant information, recognize bias in source material, and critically examine a diversity of source material.
- Students will demonstrate the ability to synthesize a cogent body of knowledge from various sources of information, acknowledge the contributions/insights of others, and make independent judgments.
- Student communication will be clear, purposeful, and make appropriate use of evidence, data and technology as applicable.
- Students will be able to interpret, test and demonstrate principles revealed in empirical data.
- Students will be able to work together toward a shared purpose relevant to the course or discipline with a sense of shared responsibility for meeting that purpose.

EXAMS AND GRADING: Exams will be a mixture of objective, short-answer, and short-essay questions drawn from lectures and assigned readings from the book and occasional hand-outs or websites. You are expected to read all assigned text, preferably including a preview of the material before class to facilitate questions and discussion. **There are NO drop grades for exams**, so take each exam seriously!

Grades will be computed based on a "10-point scale" such that a total of 90% or higher of possible points will result in a grade of A, between 80% and 89.9% a B, and so on. If your total is lower than 60% of the class points you will fail the class (yes, that's an F). The points are planned to be as follows:

3 exams (100 pts. each)	300
1 Final exam	100
Paper	100
Quizzes, etc.	100
*Laboratory**	*200*
Total course grade	***800***

This means that you must earn at least 720 total points (800 x .9) for an A, 640 (800 x .8) for a B, 560 (800 x .7) for a C, and 480 (800 x .6) for a D in the class. Below 480 points is a Failing grade.

Note that lecture counts for 75% of the total course points, while lab counts for the other 25%. ***I*** am not in control of your laboratory grade, only the lecture portion of the class.

TENTATIVE SCHEDULE OF EVENTS*

Note on Scheduling: Most weeks there will be some lectures devoted to "Concept" Chapters (listed first), as well as at least one lecture devoted to "Diversity" Chapters (listed second). There may be some overlap depending on time taken to finish a topic.

WEEK	START DATE		TEXTBOOK TOPIC(S)	TESTING**
1	Jan	12	Ch. 1: Introduction to the Course and Zoology	
2		19	Ch. 2: Cells, Tissues & Organs	*Monday Holiday*
3		26	Ch. 3: Cell Division Ch. 7: Classification	
4	Feb.	02	Ch 3: Inheritance (expanded) Protozoans (D2L content only)	
5		09	Ch. 3: Inheritance (continued) Ch. 8: Animal Origins	***Exam 1***
6		16	Ch. 9: Basal Animal Phyla Ch. 10: Smaller Spiralian Phyla	
7		23	Ch. 11 & 12: Mollusca & Annelida	
8	Mar.	02	Ch. 4: Evolution Ch. 13: Smaller Ecdysozoan Phyla	
		09	***Spring Break- No Classes***	
9		16	Ch. 5: Evolution Ch. 14: Arthropoda	
10		23	Ch. 15: Pancrustacea	***Exam 2***
11	.	30	Ch.16-17: Deuterostomes	
12	Apr	06	Ch. 6 Ecology Ch.18: Fishes	
13		13	Ch. 19 & 20: Amphibians & Reptiles	
14		20	Ch. 6: Ecology (cont.) Ch. 21 & 22: Birds & Mammals	
15		27	Finish Up/Review	***Exam 3***
16	***May***	***04***	***Finals Period Wed, May 6 @ 10:30-12:30***	***FINAL EXAM***

*This schedule is a general outline for your reference and is subject to change. Any changes will be announced in class and at the course website(s); you will be responsible for keeping up with them.

**Exam exact dates will be announced at least one week in advance.

Final Exams are assigned to dates by the University (see http://www.tamuc.edu/admissions/registrar/academicCalendars/final-exam-schedule.aspx)

Exam Procedure: You may have assigned seating for exams (not quizzes!). Students are responsible for supplying their own **Scantron** cards (F 882-E, narrow green, 50 questions per side), and should bring pencils (#2/HB lead) and a *good* eraser. You may NOT have bags, notes, hats or hoods, sunglasses, headphones, cell phones, etc. with you during exams- all such other items must be left in the front of the classroom, with electronics turned off/silenced and stored. Any student caught cheating on an exam will receive a zero for that exam.

Writing assignments will be detailed in separate handouts. "Quizzes, etc." includes points from any quizzes given, attendance/participation credit, D2L online assignments, or anything else that crops up. Studying together can be highly beneficial, but exams and turned-in assignments must be done individually. Cheating, plagiarism, and disruptive behavior will not be tolerated.

MAKE- UP WORK: In the case of a missed **exam**, with presentation of a valid and documented excuse you may arrange for a make-up exam. Such make-ups MUST be scheduled with me within 3 days of the missed test (if you are not in town, pick up the telephone or have a friend do it), and may be a totally different type of exam. Lack of such arrangements will result in a score of **0** for that test, and only ONE exam may be made up in this fashion. Such make-up exams will be given during finals week ONLY. **Quizzes** do not have make-up options since there are enough quizzes offered to allow drop scores. Extreme circumstances will always be taken into consideration- SEE ME before you assume anything.

ATTENDANCE: Attendance is generally mandatory for this level course, and a seating chart may be used for ease of recording attendance. Repeated unexcused absences or disruptive behavior such as talking during lecture or repeated tardiness will negatively affect grades (especially if borderline); similarly good attendance and behavior will be rewarded via attendance/participation credit. Missing 20% or more of lecture (unexcused absences) is grounds to receive a grade of F for the course. Note that Labs have similar policies, and failing lab will virtually assure failing the course. Of course, these policies may be adjusted as needed for health and safety.

RESOURCES:
There are a variety of resources at your disposal to aid with your studies in addition to your Mastering Biology account. This lecture is "Web Enhanced"- it has a MyLeo Online D2L site that you will be expected to use regularly- you can enter via your MyLeo account. There is also a wide variety of study aids available at the text's website, accessible through your MasteringBiology account.

You may also find useful the **Academic Success Center** services, which include tutoring and workshops (including such topics as "Managing Test Anxiety"):
http://www.tamuc.edu/CampusLife/CampusServices/AcademicSuccessCenter/default.aspx
Try out these features early, while they have time to help you!

And of course the Academic Calendar, which does include information regarding University holidays, deadlines to add, drop, withdraw, and other such activities. This page also includes the link to each semester's Final Exam schedule (which may also be useful for your other courses): http://www.tamuc.edu/admissions/registrar/academicCalendars/

OTHER NOTES (INCLUDING OFFICIAL UNIVERSITY STATEMENTS/AKA: THE FINE PRINT)
It is the responsibility of the student to inform me of any problems you may have affecting your performance in class, be it due to professionally diagnosed disability, personal or work-related problems, or anything else that comes up, so that appropriate adjustments can be made.

EARLY INTERVENTION FOR FIRST YEAR STUDENTS:

Early intervention for freshmen is designed to communicate the University's interest in their success and a willingness to participate fully to help students accomplish their academic objectives. The university through faculty advisors and mentors will assist students who may be experiencing difficulty to focus on improvement and course completion. This process will allow students to be knowledgeable about their academic progress early in the semester and will provide faculty and staff with useful data for assisting students and enhancing retention. Grade reports will be mailed by the end of the sixth week of the semester.

TECHNOLOGY REQUIREMENTS

Minimal Technical Skills Needed

Students will need reliable computer and internet access for this course. Students must be able to effectively use myLeo email, myLeo Online D2L, and Microsoft Office.

Learning Management System (LMS) – D2L

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

- View the Learning Management System Requirements Webpage.
- Learn more on the LMS Browser Support Webpage.

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 on the Brightspace Support Webpage.

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
Zoom Video Conferencing Tool
https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu

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@etamu.edu.

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

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 online in the Student Guidebook.

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

ETAMU Attendance

For more information about the attendance policy, please view the Attendance Webpage and the Class Attendance Policy

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all their scholastic work. For more details and the definition of academic dishonesty see the following procedures:
Undergraduate Academic Dishonesty University Procedure 13.99.99.R0.03
Undergraduate Student Academic Dishonesty Form
Graduate Student Academic Dishonesty University Procedure 13.99.99.R0.10
Graduate Student Academic Dishonesty Form

Use of Artificial Intelligence

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources

Academic Honesty

Plagiarism is a criminal activity. You must cite all sources of information. Copying material, whether parts of sentences, whole sentences, paragraphs, or entire articles, will result in a score of zero for your assignment and can result in further disciplinary action. If you are caught cheating you will receive a score of zero for the class – not just the assignment.

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:

Office of Student Disability Resources and Services

East Texas A&M University
Velma K. Waters Library Rm 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@etamu.edu
Website: Office of Student Disability Services

Nondiscrimination Notice

East Texas A&M University 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 East Texas A&M University 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 ETAMU 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.

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

FINAL NOTE:

I make efforts to conserve resources (and cost) in providing materials for class. All materials provided in class are to be found at the D2L website. I will not provide hard-copy handouts of anything that you can access there- you may print what you need, when you need it; or just download a copy to have handy. Clearly computer access is assumed of all students. If you do not have one of your own (or your online access is limited), there are computer labs available all around campus- Waters Library most notably, and more locally Science building room 210. There are even kiosks for checking out a laptop. You may need to provide your own paper for printing, or pay a charge. Also, places like Staples and OfficeDepot will print materials for a reasonable fee if you bring your flash-drive. Last bit of advice: **Get a Calendar. Learn how to use it.** ☺