

**INSTRUCTOR:** Dr. Lani Lyman-Henley **Cell phone:** 972-571-1042 \*\*  
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**Office:** STC 237 (Science & Technology Center) **Office Phone:** 903-886-5372  
**Animal Care Facility:** STC 254 **ACF Phone:** 903-886-5249  
**Course Website:** at eCollege (<http://online.tamuc.org>) **Home Phone:** 972-722-1568\*  
**Office Hours:** MWF 11-12; email or use Virtual Office (at eCollege) anytime

\*Note on phone calls: Please leave a message with your name, number, and basic reason for calling; my husband and I are both "Dr. Henley," and both get a lot of correspondence on various topics, and I don't call back mystery numbers.

\*\* Cell phone does text messaging as well (others do not).

### REQUIRED TEXTBOOKS

**Lecture:** *Zoology, 9<sup>th</sup> Edition*. Miller & Harley. 2012. McGraw-Hill.

Note that the bookstore will carry the loose-leaf version of the textbook ( ISBN-9780077753337), which costs less than the bound version but should otherwise be the same.

**Laboratory Manual:** *General Zoology Laboratory Manual, 7<sup>th</sup> Ed*. Miller, 2012.

ISBN: 9781121812086. This is a custom-made lab manual that has left out several chapters we won't need (at a cost savings to you). It will only be available through the campus bookstore.

**COURSE MEETING TIME/PLACE:** MWF 10:00 –10:50, JOUR 129

**COURSE DESCRIPTION:** This course is designed for students majoring in Agricultural Science, Plant and Soil Science, Wildlife and Conservation Science, and in Environmental Science. 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 **20%** of your final grade. The laboratory sessions will *begin the first week of classes*. Be there, and be sure to take your laboratory manual! You will receive a complete schedule, syllabus, and further instructions from your Lab Instructor at the first meeting. Spring 2012 Lab schedule information:

BSC 1413L. 01L	Wednesdays	4:00-5:50	STC 216
BSC 1413L. 02L	Fridays	1:00-2:50	STC 216
BSC 1413L. 03L	Thursdays	3:00-4:50	STC 216

**ATTENDANCE:** Attendance is mandatory, 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) will result in a grade of F for the course. Note that Labs have similar policies, and failing lab will virtually assure failing the course.

**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 too! If you miss a lecture, you are still responsible for that day's material- read the chapter, get notes from someone in class, 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 completion 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.

**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 an *eCollege* site that you will be expected to use for several assignments; you can enter via your MyLeo account, or go directly to <http://online.tamuc.org>. There are also study aids available at the text’s website: [http://higher.ed.mcgraw-hill.com/sites/0073524174/student\\_view0/index.html](http://higher.ed.mcgraw-hill.com/sites/0073524174/student_view0/index.html)

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/studentLife/campusServices/academicSuccessCenter/default.aspx>

In addition you may visit *JAMP Room Biology tutoring* – STC #110; schedule will be posted outside the door. For questions regarding JAMP, please contact Dr. Slovak 903-886-5368 or [john.slovak@tamuc.edu](mailto:john.slovak@tamuc.edu). 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://web.tamuc.edu/admissions/registrar/academicCalendars/>

**EXAMS AND GRADING:** 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 (150 pts.)	150
2 writing assignments (100 pts. each)	200
Quizzes, Homework, etc.	<u>150</u>
	<b>800</b>
Laboratory*	<u>200</u>
<b>Total BSc131 course grade</b>	<b>1000</b>

\***Note** that lecture counts for 80% of the total course points, while the laboratory counts for the other 20%. **I** am not in control of your laboratory grade, only the lecture portion of the class.

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, and NO extra credit assignments, so take each exam seriously!

Writing assignments will be detailed in separate handouts. “Quizzes, etc.” includes points from any quizzes given (may be surprises!), attendance/participation credit, *eCollege* 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.

**Exam Procedure:** You may have assigned seating for exams (not quizzes!). You may only take #2 pencils (& erasers) with you to your seat; scantrons & any additional writing paper will be provided. You may NOT have bags, notes, hats or hoods, sunglasses, headphones, cell phones, etc. with you during exams.

**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 will be mainly short answer or essay in nature. 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. Extreme circumstances will always be taken into consideration- SEE ME before you assume anything.

#### TENTATIVE SCHEDULE OF EVENTS\*\*

<u>WEEK</u>	<u>START DATE</u>	<u>TEXTBOOK TOPIC(S)</u>	<u>TESTING</u>
1	Jan. 14	Ch. 1: Zoology: An Evolutionary & Ecological Perspective	
2	21	Chemical Basics (Ch. 30-32 Online as needed) [Monday Holiday]	
3	28	Ch. 2: Cells, Tissues & Organs	Quiz 1
4	Feb. 04	Ch. 3: Cell Division & Inheritance	
5	11	Ch 3-4: Inheritance & Evolutionary Theory	<b>Exam 1</b>
6	18	Ch. 4-5: Evolution & Genes	
7	25	Ch. 5-6: Evolution & Ecology	Quiz 2
8	Mar. 04	Ch. 6: Ecology	<b>Exam 2</b>
	<b>11</b>	<b>Spring Break- No Classes</b>	
9	18	Ch. 7-8: Classification & Protozoans	
10	25	Ch. 9-11: Acoelomates & Molluscs*	Quiz 3
11	Apr. 01	Ch.11-13: Annelids & Aschelminthes	
12	08	Ch. 14-16: Arthropods & Echinoderms	<b>Exam 3</b>
13	15	Ch. 17-19: Non-amniote Chordates	
14	22	Ch. 20-22: Amniotes	Quiz 4
15	29	Ch. 34: Behavior (Online), Wrap-up	
<b>16</b>	<b>May 6</b>	<b>10:30 – 12:30 Finals Period</b>	<b>FINAL EXAM</b>

\*Ch. 23-29 may be referred to as needed to discuss Anatomy & Physiology of taxa being studied.

\*\*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. Cell phones/pagers should be silent during class time.

**TOPICS TO INCLUDE:**

**CHEMISTRY & CELLS**

Basic organic & inorganic chemistry, cell structure & function, metabolism & respiration

**GENETICS & EVOLUTION**

Cell reproduction, basic inheritance & molecular genetics, population genetics & patterns of evolution

**BIODIVERSITY OF ANIMALS**

Protozoan protists, Invertebrate & vertebrate animals

**ANIMAL STRUCTURE & FUNCTION**

Basic patterns in anatomy & physiology, reproduction & development (emphasis on vertebrates).

**ECOLOGY**

Animal ecology & conservation, including succession, pollination, and other interactive phenomena.

**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.

**Students with Disabilities:**

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, Texas A&M University-Commerce**

**Gee Library, Room 132, Phone (903) 886-5150 or (903) 886-5835, Fax (903) 468-8148**

[StudentDisabilityServices@tamuc.edu](mailto:StudentDisabilityServices@tamuc.edu) (or visit

<http://web.tamuc.edu/studentLife/campusServices/studentDisabilityResourcesAndServices/default.aspx> )

**Regarding student conduct**

“All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. See Student's Guide Handbook, Policies and Procedures, Conduct.” Please be advised that students who are disruptive to class activities will be dropped from the class and may face further disciplinary action.

**Plagiarism**

“*Plagiarism* is a criminal activity. You must cite all sources of information. Copying of material, whether parts of sentences, whole sentences, paragraphs or entire articles, will result in a score of zero for your essay and can result in further disciplinary action.” Note that this is true throughout the University and we do have plagiarism-detecting software in place. Of special note in an online environment- “cut and paste” from websites without appropriate citation IS plagiarism, yet putting everything in quotation marks is not an acceptable alternative. You must learn to construct your own sentences with information you find (and changing a couple of words in a sentence or reordering sentences in a paragraph are not enough). If you have any questions about what is considered plagiarism or wish advice on avoiding it, please contact your instructor.

**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.