Instructor: Robert C. Dowler  
Email: robert.dowler@angelo.edu  
Phone: 325-486-6639  
Office: CAV020

Office Hours: M 10:30-12; T 1:30-3; W 10:30-12, 1:30-3. Others times by appointment. Any modifications will be posted on my office door.

Course Information

Student Learning Outcomes
The primary goal of this course is to give an overview of mammalogy, the study of mammals. This will be achieved, in part, through the presentation of information on our current understanding of the biology and classification of mammals, their evolutionary history, and the methodology used to study mammals. Students successfully completing this course should have a broad understanding of the field of mammalogy. Knowledge of Student Learning Outcomes will be assessed as multiple choice, fill-in, or discussion questions on examinations.

Required Texts and Materials


[The following lab manual will be used in labs, but is not essential. A new edition is soon to be in press. Used copies may be available from online sources. Some copies of old lab manuals will be available for use in lab.]


An alternative is a newer mammalogy lab manual:  

Dissection Kit—you are welcome to bring your own dissecting tools; however, we will have some for your use in the lab for preparing study skins of mammals.
Optional Texts—if you are thinking of a career in mammalogy, these should be added to your personal library.


Grading

Evaluation and Grades

Course grades will be determined as indicated in the table below. The quiz grade can be replaced with the average of the total lab practical grade average.

<table>
<thead>
<tr>
<th></th>
<th>Percent of Total Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture exams (2 X 100=200 pts)</td>
<td>20</td>
</tr>
<tr>
<td>Lab practical exams (2 X 100; 1 X 150; =350 pts)</td>
<td>35</td>
</tr>
<tr>
<td>Field trip participation – field notes – iNaturalist project (100 pts)</td>
<td>10</td>
</tr>
<tr>
<td>Quizzes (100 pts)</td>
<td>10</td>
</tr>
<tr>
<td>Specimen/Skeleton preparation (100 pts)</td>
<td>10</td>
</tr>
<tr>
<td>Comprehensive final exam (150 pts)</td>
<td>15</td>
</tr>
<tr>
<td><strong>Total pts - 1000</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

The following grading scale is in use for this course:

- A = 90.00-100 points
- B = 80.00-89.99 points
- C = 70.00-79.99 points
- D = 60.00-69.99 points
- F = 0-59.99 points
Specimen Preparation (due date: 8 November)

Each student will prepare a minimum of 10 specimens of mammals, of which one will be a medium-sized mammal. Mammal specimens will be provided or collected on field trips.

Field Trips
Two or more overnight or weekend field trips will be taken during the semester. **Students are required to attend one of these.** There will be additional opportunities for local field collecting trips if arrangements cannot be made to attend the longer trips. The field trip participation grade will be based in part on turning in field notes from one of these trips. An iNaturalist project will be set up on the web for this course. Students will be required to log a minimum of 10 mammal observations during the semester. Details on dates and locations of the field trips and the procedures for both field notes and the iNaturalist project will be given in class.

General Policies Related to This Course
All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)
- [Angelo State University Catalog](#)

Academic Integrity
Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s Statement of Academic Integrity.

Accommodations for Students with Disabilities
ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the
Incomplete Grade Policy
It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

Student Absence for Observance of Religious Holy Days
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

Title IX at Angelo State University
Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:
Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit the Title IX website.

Information About COVID-19
Please refer to ASU’s COVID-19 (Coronavirus) Updates web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

Personal Risks Associated with this Course: As with many courses in biology, the study of mammalogy has many inherent risks. Because you will have the opportunity to work with live and preserved animals, and to participate in field work, there will be risks not encountered in many other courses at Angelo State University. I will make every effort to minimize the risks and provide information to minimize exposure to hazards; however, you should be aware that hazards exist in this course. If you have concerns about participating in any of the exercises in this course, I will make other options available to you so that you can meet the requirements of the course. You will be asked to sign a release waiver to fully participate in the course. Additional information concerning this will be provided in class.

Course Schedule

<table>
<thead>
<tr>
<th>Week of</th>
<th>Reading*Feldhamer et al.</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 AUG</td>
<td>1-2</td>
<td>Mammalogy as a science; Intro to orders; history of mammalogy, mammalian characteristics</td>
</tr>
</tbody>
</table>
30 AUG 4 Mammalian characteristics-skull and dentition; mammal origins;

6 SEP 5, 9 Zoogeography; reproduction

13 SEP 4 (+ 223-27), 10 Ordinal classification; Monotremes, Marsupials

20 SEP 21 Chiroptera

27 SEP 21 Chiroptera (cont.), LECTURE EXAM I---29 SEP

4 OCT 17, 11 Shrews, moles, tenrecs, elephant shrews and aardvark

11 OCT 14, 15 Tree shrews, colugos, and primates

18 OCT 13 Armadillos and anteaters

25 OCT 16 Rodentia

1 NOV 16 Rodentia (continued)

8 NOV 16 Lagomorpha LECTURE EXAM 10 NOV;

15 NOV 18 Carnivora and pangolins

22 NOV 12 Proboscidea, Hyracoidea, Sirenia (THANKSGIVING BREAK)

29 NOV 19, 20 Perissodactyla, Artiodactyla, [Cetacea]

COMPREHENSIVE FINAL-WEDNESDAY - DECEMBER 8, 8:00 A.M.

----------------------------------MAMMALOGY LAB SCHEDULE----------------------

Lab Period Topics Readings *Martin et al = M Schmidly/Bradley = S&B
<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 AUG</td>
<td>Field methods: collecting and preparing specimens; diseases and course risks</td>
<td>M – CH 29, 30, 31</td>
</tr>
<tr>
<td>30 AUG</td>
<td>Preparing study skins</td>
<td>M – CH 29, 31</td>
</tr>
<tr>
<td>6 SEP</td>
<td>NO LAB- LABOR DAY HOLIDAY</td>
<td></td>
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<tr>
<td>13 SEP</td>
<td>Skull, skeleton and dentition; soft anatomy</td>
<td>M – CH 2, 3, 6</td>
</tr>
<tr>
<td>20 SEP</td>
<td>Keys and keying; Bats</td>
<td>M – CH 8, 14 S&amp;B pp 110-216</td>
</tr>
<tr>
<td>27 SEP</td>
<td>Monotremes and marsupials; insectivores, S&amp;B pp 56-60; 93-109</td>
<td>M – CH 9, 10, 11, 12</td>
</tr>
<tr>
<td>4 OCT</td>
<td>LAB PRACTICAL 1</td>
<td></td>
</tr>
<tr>
<td>11 OCT</td>
<td>Miscellaneous orders</td>
<td>M – CH 13, 15, 16, 17, 18, 21; S&amp;B pp 64-70</td>
</tr>
<tr>
<td>18 OCT</td>
<td>Rodents (part)</td>
<td>M – CH 23; S&amp;B pp 447-450, 529-630</td>
</tr>
<tr>
<td>25 OCT</td>
<td>Rodents (part); Lagomorphs</td>
<td>M – CH 23, 22; S&amp;B pp 450-529</td>
</tr>
<tr>
<td>1 NOV</td>
<td>LAB PRACTICAL 2</td>
<td></td>
</tr>
<tr>
<td>8 NOV</td>
<td>Carnivores</td>
<td>M – CH 19; S&amp;B pp 217-310</td>
</tr>
<tr>
<td>15 NOV</td>
<td>Ungulates and cetaceans</td>
<td>M – CH 20, 25, 26, 27 S&amp;B pp 316-435</td>
</tr>
<tr>
<td>22 NOV</td>
<td>Review or makeup lab</td>
<td></td>
</tr>
<tr>
<td>29 NOV</td>
<td>LAB PRACTICAL 3</td>
<td></td>
</tr>
</tbody>
</table>

1. [https://www.angelo.edu/student-handbook/](https://www.angelo.edu/student-handbook/)
2. [https://www.angelo.edu/catalogs/](https://www.angelo.edu/catalogs/)
4. [https://www.angelo.edu/services/disability-services/](https://www.angelo.edu/services/disability-services/)