Principles of Zoology
Biology 133.02, Fall 2018

Instructor: Dr. Brent Burt  Class meeting time and place: TR 12:30-1:45, Miller Sci. 137
Department: Biology Phone: 468-2482  E-mail: ddburt@sfasu.edu  Office: Miller Sci. 222
Office hours: MW 8:00-9:30, TR 9:30-10:30, and by appointment
Course online resources: D2L

Course Description:
4 semester hours, 3 hours lecture per week, 2 hours lab per week. Fundamental principles of animal life, including invertebrate and vertebrate animals. Required lab fee.

Student Learning Outcomes (Course Competencies):
1. Understand basic approaches to testing scientific hypotheses
2. Understand the fundamentals of genetics and evolution
3. Learn the diversity of animal anatomy and physiology
4. Learn animal classification and phylogenies
5. Learn traits, distribution and diversity of each major animal lineages

Program Learning Outcomes:
- PLO 1: The student will demonstrate a good knowledge base in biological concepts.
- PLO 4: The student will be able to design, carry out, and analyze experiments to answer biological questions using the scientific method.
- PLO 6: The student will demonstrate preparation for future career and educational goals.

General Education Core Curriculum
The Texas Higher Education Coordinating Board has identified six core learning objectives: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, Personal Responsibility, and Social Responsibility. SFA is committed to the improvement of its general education core curriculum by regular assessment of student performance on these six objectives.

By enrolling in Principles of Zoology you are also enrolling in a Core Curriculum Course that fulfills the Empirical and Quantitative Skills requirement. You will see this course on your D2L list.

At one point during the semester, you will receive a lab assignment that fulfills both the requirements of this course and the needs of Stephen F. Austin State University’s Core Curriculum Assessment Plan with the Texas Higher Education Coordinating Board. When you complete this one assignment, you need to upload the assignment to both your standard course dropbox determined by your Instructor and the “Core Curriculum” dropbox. The Core Curriculum dropbox will be identified by the Objective for which work is being collected. (Examples: Critical Thinking, Teamwork, Social Responsibility Empirical & Quantitative Skills, Personal Responsibility, Communication Skills-Written, Communication Skills-Written & Visual, and Communication Skills- Oral & Visual.) Please note that this only applies to the approved assignment. All other assignments should be submitted according to regular class operations.

When you complete the assignment mentioned above, you will upload the assignment to both the Principles of Zoology dropbox and the Empirical and Quantitative Skills dropbox. Please note that this only applies to the specific assignment listed in the matrix below. All other assignments should be submitted according to regular class operations. If you have any questions, please see your instructor, or contact the Office of Student Learning and Institutional Assessment at (936) 468-1130.

The chart below indicates the core objectives addressed by this course, the assignment(s) that will be used to assess the objectives in this course and uploaded to the D2L Empirical and Quantitative Skills dropbox this semester, and the date the assignment(s)
should be uploaded to the D2L Empirical and Quantitative Skills dropbox. Not every assignment will be submitted for core assessment every semester. Your instructor will notify you which assignment(s) must be submitted for assessment in the D2L Empirical and Quantitative Skills dropbox.


<table>
<thead>
<tr>
<th>Core Objective</th>
<th>Definition</th>
<th>Course Assignment Title</th>
<th>Date Due</th>
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</thead>
<tbody>
<tr>
<td>Empirical and Quantitative Skills</td>
<td>To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.</td>
<td>TBA</td>
<td>TBA</td>
</tr>
</tbody>
</table>

Grading Policy:
Your final grade in this course is determined by grades from the laboratory, lecture exams, lecture quizzes and participation in the course evaluation.

- 4 exams 400 pts (100 pts each)
- Quizzes* (14 @ 5 pts) 70 pts
- Online Evaluation 5 pts

*Quizzes contain one potential bonus point each.

The lecture portion of your grade is determined by earning 90%, 80%, 70% and 60% of the available points for the associated traditional letter grade. The lecture portion makes up 3/4 of your course grade with the lab portion making up the remaining 1/4th.

Example:
Lecture Average: 92, Lab Average: 75
Final grade = 92 + 92 + 92 + 75 = 351, 351/400 = 87.8 %, B

Course Requirements:
This course is going to run as a “flipped” class. This means all lectures will be posted online for you to view and study at your convenience. We will not meet as a class on most Tuesdays (Exceptions: 28 August, 18 September, 9 October, 30 October, 4 December). I will be available for individual consultations during the class period on all other Tuesdays. We will meet each Thursday, at which time we will review and address questions and concerns about the most recent lecture materials, watch videos on key animal groups, or take exams.

Exams will be a combination of multiple choice, matching and true/false questions. The final exam is an optional comprehensive exam that will replace the lowest grade from the 4 regular exams. The final exam is also the makeup exam for anyone missing one of the 4 regular exams. Anyone showing up late to take an exam must take the final exam if they arrive after any other student has already turned in their exam and left the room. Latecomers to the final exam will not be allowed to take the exam if they show up after any other student has already turned in their exam.

Quizzes will be administered online in D2L. There will be one quiz per week (see course calendar below for quiz dates). Quizzes will be open at 1:00 PM and close at 11:00 PM each quiz day. Each quiz will contain six questions worth one point each. Students will be responsible for five points with one possible bonus point per quiz. Makeups for missed quizzes will be granted only under rare circumstances.

When studying for exams and quizzes, concentrate on lecture notes. Both lecture videos and copies of the text portions of my lecture notes are available on D2L. It is crucial that you download a copy of the lecture outlines and make additional notes on these outlines while watching the videos. The textbook should be considered supporting material for information presented in class lectures. Figures from the textbook will be key in many sections of the lecture notes. Additional information will occasionally be given in lecture videos and should be written into the core lecture outlines.

It is now departmental policy to require students to complete online class evaluations at the semester’s end. This assignment is worth 5 points.
Lecture attendance:
Regular attendance is expected each day we meet as a class. Students with poor attendance typically do very poorly in this class.

Acceptable Student Behavior
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program. Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment will be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

Class etiquette:
• Do not be late for class.
• Do not leave before the class period is over.
• Do not anticipate the end of class and start putting your things away.
• Do not talk during class.
• Turn off your phone.
• Stay awake.

Academic Integrity (A-9.1)
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Academic dishonesty will result in immediate failure in this class.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Withheld Grades Semester Grades Policy (A-54)
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of
the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

**Course Calendar:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Classroom Activity</th>
<th>Topics for This Week’s Review and Quiz</th>
<th>Videos</th>
<th>Quiz</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>28, 30 Aug</td>
<td>Class intro. 28 August</td>
<td>Zoology as a Science, Hypothesis Testing</td>
<td>1-2</td>
<td>Quiz 1, 30 Aug</td>
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<td>2</td>
<td>4, 6 Sept</td>
<td>Discussion/review 6 September</td>
<td>Reproduction, Development, Digestion</td>
<td>3-5</td>
<td>Quiz 2, 6 Sept</td>
</tr>
<tr>
<td>3</td>
<td>11, 13 Sept</td>
<td>Discussion/review 13 September</td>
<td>Homeostasis, Circulation, Respiration</td>
<td>6-7</td>
<td>Quiz 3, 13 Sept</td>
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<td>4</td>
<td>18, 20 Sept</td>
<td>Discussion/review 18 September<strong>Exam 1</strong>, 20 September (Week 1-4 material, Videos 1-9).</td>
<td>Integument, Muscles, Skeleton, Nervous System</td>
<td>8-9</td>
<td>Quiz 4, 18 Sept, Exam 1, 20 Sept</td>
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<td>5</td>
<td>25, 27 Sept</td>
<td>Discussion/review 27 September</td>
<td>Evolution, Animal Behavior</td>
<td>10-13</td>
<td>Quiz 5, 27 Sept</td>
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<tr>
<td>6</td>
<td>2, 4 Oct</td>
<td>Discussion/review 4 October</td>
<td>Phyllogenies, Animal Body Plans</td>
<td>14-15</td>
<td>Quiz 6, 4 Oct</td>
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<td>7</td>
<td>9, 11 Oct</td>
<td>Discussion/review 9 October</td>
<td>Protozoa, Porifera, Cnidaria, Ctenophora</td>
<td>16-18</td>
<td>Quiz 7, 9 Oct Exam 2, 11 Oct</td>
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<tr>
<td>8</td>
<td>16, 18 Oct</td>
<td>Discussion/review 18 October</td>
<td>Acoelomorpha, Lophotrochozoa I–Platyhelminthes, Gastrotrichs - Rotifers</td>
<td>19-20</td>
<td>Quiz 8, 18 Oct</td>
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<tr>
<td>10</td>
<td>30 Oct, 1 Nov</td>
<td>Discussion/review 30 October</td>
<td>Ecdysozoa I- Nematodes - Arthropoda I–Chelicerates</td>
<td>24-25</td>
<td>Quiz 10, 30 Oct Exam 3, 1 Nov</td>
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<td>11</td>
<td>6, 8 Nov</td>
<td>Discussion/review 8 November</td>
<td>Arthropoda II–Myriapods, Crustaceans, Hexapods</td>
<td>26-27</td>
<td>Quiz 11, 8 Nov</td>
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<td>12</td>
<td>13, 15 Nov</td>
<td>Discussion/review 15 November</td>
<td>Chaetognaths, Echinodermata, Invert. Chordates</td>
<td>28-29</td>
<td>Quiz 12, 15 Nov</td>
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<tr>
<td>13</td>
<td>20, 22 Nov</td>
<td>Thanksgiving</td>
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<td>14</td>
<td>27, 29 Nov</td>
<td>Discussion/review 29 Nov</td>
<td>Vertebrata I Fish, Amphibians</td>
<td>30-31</td>
<td>Quiz 13, 29 Nov</td>
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<td>15</td>
<td>4, 6 Dec</td>
<td>Discussion/review 4 December</td>
<td>Vertebrata II Mammals, Reptiles (including birds)</td>
<td>32-33</td>
<td>Quiz 14, 4 Dec Exam 4, 6 Dec</td>
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<td>16</td>
<td>11 Dec</td>
<td>Optional Final Exam 10:30-12:30</td>
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