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Department: Biology
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* All contact via e-mail should be professional in manner with proper punctuation and grammar. E-mails sent in an unacceptable format will not be answered.
* Do not contact me through D2L, I will not respond. Only use my SFA email (sullanj@sfasu.edu).

Phone: (936) 468-5987
Office: S108
Office Hours: M 8:30 A.M. - 9:00 A.M., T 9:00 A.M. - 11:00 A.M., W 12:30 P.M. - 3:00 P.M. or by appointment.
Class Meeting Time & Place: MW 3:00 - 4:15 S137

Supplemental Instruction: TBA


Course Description: Four semester hours, three hours lecture per week, two hours lab per week. Fundamental principles of animal life, including invertebrate and vertebrate animals. Required lab fee.

Pre-requisites: None

Co-requisite: BIO 133 Lab

Course Objectives:

1. Provide students with a clear sense of how science works
2. Provide students with an understanding of genetics and evolutionary mechanisms and patterns
3. Provide students with an overview of animal physiological and anatomical diversity
4. Provide students with an overview of animal diversity
5. Zoology labs will provide hands on experience to reinforce concepts introduced in lecture.

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 (Knowledge). This PLO is achieved with SLO 1-5.
General Education Core Curriculum Objectives / Outcomes

Texas State Exemplary Educational Objectives are addressed by the associated Student Learning Outcome listed below.

Objective 1 requires that students “understand and apply method and appropriate technology to the study of natural sciences”. (STO 1, 4)

Objective 2 states that students must be able “To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretations both orally and in writing.” (STO 1, 2, 4)

Objective 3 states that students must be able “To identify and recognize the differences among competing scientific theories.” (STO 1, 2, 4)

Objective 4 states that students must be able “To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.” (STO 1, 2, 3, 4, 5)

Objective 5 states that students must be able “To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.” (STO 1, 2, 3, 4, 5)

Student Learning Outcomes:

Student’s understanding will be evaluated with weekly quizzes, lab reports and two scheduled exams covering multiple exercises. The final lab grade counts 1/3 of their final Bio. 133 grade. Students who successfully complete the Introductory Zoology Laboratory will be able to:

1. Give concise and accurate answers to questions. (EEO 2, 3, 4; PLO 1, 4, 6)
2. Demonstrate a competent knowledge of the relationships of the organisms studied. (EEO 1, 3, 5; PLO 1, 4)
3. Demonstrate proper microscope usage skills. (EEO 1, 2, 5; PLO 1, 4, 6)
4. Demonstrate a proficient vocabulary of biological terms. (EEO 1, 2; PLO 1, 4, 6)
5. Demonstrate a competent knowledge of the binomial system of nomenclature. (EEO 1, 3, 4; PLO 1, 4, 6)

Determination of Lecture Grade:

1. Lecture Exams: Lecture exams will include a variety of question types, which may include multiple choice, true/false, matching, and fill-in-the-blank. A make-up exam will only be given in cases of excused absences (medical or personal emergency) with adequate documentation. Only ONE make-up exam is allowed. The optional cumulative final exam will act as the make-up exam. If you are late to an exam, you will be allowed to take the exam as long as no one has turned it in yet. However, the class tardiness policy will still apply (see below), and you will have no extra time to finish the exam. If you are late to an exam and someone has already turned in the exam, you will not be allowed to take the exam.

2. Optional Cumulative Final Exam: The final exam is optional and will replace a student’s lowest regular exam score if they decide to take it. It will be a cumulative exam where students will be expected to synthesize material presented throughout the semester so it will include short answer and essay questions. If a student missed a regular exam, the cumulative final exam will act as the make-up exam.

3. Lecture Quizzes: Pop quizzes will be given during lecture throughout the semester. These are pop quizzes so students must attend lecture to ensure that they are present to take the quizzes. Absolutely no make-up quizzes will be given for any reason. These quizzes are incentive for students to attend lecture.
4. **Course Evaluations:** A course evaluation at the end of the semester is considered a mandatory part of course participation. If you do not participate in the evaluation, one percentage point will be deducted from your lecture grade.

Your final grade in this course is determined by grades from the laboratory, lecture and participation in the course evaluation.

**Assignments and Grading:**

Final grades will be based on student performance on exams and will be assigned according to the following scale:

- **100 – 90%:** A (Exceptional)
- **89.9 – 80%:** B (Above Average)
- **79.9 – 70%:** C (Average)
- **69.9 – 60%:** D (Below Average)
- **< 59.9%:** F (Failing)

The following weights will be used to calculate an overall grade:

**Lecture Grade**
- Lecture Exams (4 @ 100 points each) 400 pts
- Lecture Quizzes (variable; 25-50 points total) 25-50 pts
- Total Lecture Points: 425 - 450 pts

**Overall Grade**
- Lecture 75%
- Lab 25%

**Example:**

Earning 300 of the possible 400 points = 75%, C for the lab grade. If a 92% was earned for the lecture, the final course grade would be calculated as:

Lecture Average: 92, Lab Average: 75

Final grade = 92 + 92 + 92 + 75 = 351, 351/400 = 87.8 %, B

**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 (see the Student Conduct Code, policy D-34.1, http://www.sfasu.edu/policies/student_conduct_code.asp). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may 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. **If you are asked to leave, you must schedule a time to meet with me before you are allowed to attend another lab.** 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.
**Academic Integrity (A-9.1):**

Abiding by university policy on academic integrity is a responsibility of all university faculty and students. Faculty members must promote the components of academic integrity in their instruction, and course syllabi are required to provide information about penalties for cheating and plagiarism as well as the appeal process.

**Definition of Academic Dishonesty**

Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to:

- using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class;
- falsification or invention of any information, including citations, on an assignment; and/or,
- 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 include, but are not limited to:

- submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another;
- submitting a work that has been purchased or otherwise obtained from the Internet or another source; and,
- incorporating the words or ideas of an author into one's paper or presentation without giving the author due credit.

**Procedure for Addressing Student Academic Dishonesty**

A faculty member who has evidence and/or suspects that academic dishonesty has occurred shall gather all pertinent information, approach the student(s) involved, and initiate the following procedure:

- The faculty member shall review all evidence of cheating or plagiarism and discuss it directly with the student(s) involved. The faculty member shall inform the student(s) of the procedure for addressing academic dishonesty, as well as the appeals process.
- After hearing the student(s)’ explanation or defense, the faculty member will determine whether or not academic dishonesty has occurred and will inform the student(s) what action will be taken. Penalties may include reprimand, no credit for the assignment or exam, re-submission of the work, make-up exam, or failure of the course. The faculty member may consult with the academic unit chair/director and dean in making these decisions.
- After a determination of academic dishonesty, the faculty member shall notify the office of the dean of the student's major by submitting a Report of Academic Dishonesty, along with supporting documentation as noted on the form. This report shall be made part of the student's record and shall remain on file with the dean's office for at least four years.
- Upon second or subsequent offenses, the dean of the student’s major will determine a course of action, which may include dismissal from the university. The dean may refer the case to the college council for review and recommendations before making this determination.
A student's record of academic dishonesty will not be available to faculty members. The purpose of the record is for the dean to track a pattern of academic dishonesty during a student's academic career at Stephen F. Austin State University. Students who are found to have demonstrated academic dishonesty and have withdrawn prior to the award of a grade will continue to have the determination of the infraction within their student records.

Student Appeals
A student who wishes to appeal decisions related to academic integrity should follow procedures outlined in Academic Appeals of Students (A-2).
Source: http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54)

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 semesters, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.
Source: http://www.sfasu.edu/policies/semester_grds.asp

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.
## Tentative Bio 133 Spring 2019 Schedule

<table>
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<th>Week</th>
<th>Topic</th>
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| **1** (Jan. 21 – Jan. 25) | **MLK - Holiday**  
Introduction; Properties of Life (Ch. 1) |
| **2** (Jan. 28 – Feb. 1) | Zoology and the nature of Science (Ch.1);  
Genetics: A Review (Ch. 5);  
The Reproductive Process (Ch. 7); Principles of Development (Ch.8) |
| **3** (Feb. 4 – Feb. 8) | Architectural Pattern of an Animal  
(Ch. 9)  
**Exam 1 – Wed.** |
| **4** (Feb. 11 – Feb. 15) | Organic Evolution (Ch. 6)  
Taxonomy and Phylogeny of Animals (Ch. 10) |
| **5** (Feb. 18 – Feb. 22) | Life Overview; Porifera (Ch. 12)  
Cnidaria and Ctenophora (Ch. 13) |
| **6** (Feb. 25 – Mar. 1) | Homeostasis (Ch. 30)  
**Exam 2 – Wed.** |
| **7** (Mar. 2 – Mar. 8) | Homeostasis (Ch. 31)  
Acoelomorpha, Rotifera and Platyhelminthes (Ch. 14) |
| **8** (Mar. 11 – Mar. 15) | Mollusca (Ch. 16)  
Annelids (Ch. 17)  
Smaller Ecdysozoa (Ch. 18) |
| **9** (Mar. 18 – Mar. 22) | **SPRING BREAK** |
| **10** (Mar. 25 – Mar. 29) | Arthropoda I: Chelicerata and Myriapoda (Ch. 19)  
**Exam 3 – Wed.** |
| **11** (Apr. 1 – Apr. 5) | Arthropoda II: Crustacea (Ch. 20)  
Arthropoda III: Hexapoda (Ch. 21) |
| **12** (Apr. 8 – Apr. 12) | Chaetognaths, Echinoderms, and Hemichordates (Ch. 22)  
Chordates (Ch. 23)  
Support, Protection, Movement (Ch. 29)  
Digestion and Nutrition (Ch. 32) |
| **13** (Apr. 15 – Apr. 19) | **Exam 4 – Mon.**  
Fishes (Ch. 24) |
| **14** (Apr. 22 – Apr. 26) | Nervous Coordination (Ch. 33)  
Amphibians (Ch. 25) |
| **15** (Apr. 29 – May 3) | Non-avian Reptiles (Ch. 26)  
Birds (Ch. 27)  
Mammals (Ch. 28) |
| **16** (May 6 – May 10) | **Final Exam** |