

BIOLOGY OF ANIMALS
BIOL 1402: Section 002: Dr. L. Held (Prof.)
Tu.&Th., 11:00-12:20, in Biology Room LH100

Syllabus

- TEXTBOOK:** *Campbell Biology: Concepts & Connections* (9th Ed.) by Taylor et al. 2018.
Ask your TA about a **lab manual**. No other "study books" or "workbooks" are needed.
- ATTENDANCE:** Attendance is required in the laboratory, but roll will not be taken in lectures.
- TESTS:** There will be 3 tests in the lecture. (No final.) All test forms must be returned to the instructor; failure to comply will result in a zero. Graded tests can be viewed for one week after the test. Dates of tests are given on the schedule. Make-up tests will be given only with satisfactory written evidence of serious illness, legitimate emergency, or death of immediate family member. (Supplemental Instruction may be available for test reviews & study assistance.)
- GRADES:** Your overall course grade = (2/3 your lecture score) + (1/3 your lab score).
Your lecture grade = the average of your 3 test grades. (No grade drops.)
Grade scale: 100-90=A, 89-80=B, 79-70=C, 69-60=D, 59 & lower = F.
There is no plus/minus grading. There are no "extra credit" assignments.
- PURPOSE:** This course distills biology into (1) vocabulary, (2) concepts, & (3) processes.
- CORE INFO.:** This course fulfills the Core Curriculum Life & Physical Sciences Requirement.
Students graduating from TTU should be able to explain some of the major concepts in the natural sciences and demonstrate an understanding of scientific approaches to problem solving, including ethics.
The aim of the Natural Sciences part of the Core Curriculum is to enable you to understand, construct, & evaluate relationships in the Natural Sciences and to grasp the bases for building & testing theories. The Natural Sciences investigate the phenomena of the physical world. The lecture section teaches (1) critical thinking skills by using Aristotelian reasoning and (2) quantitative and empirical concepts/data by interpreting Mendelian inheritance data. The lecture section also gives you an opportunity to (3) improve your communication skills during the final week of class where students can have direct interaction with the professor. (4) The lab syllabus explains how it reinforces these 3 skill sets as well as teaching teamwork.
- TTU LEARNING: (OBJECTIVES & OUTCOMES)** Graduates of TTU should be able to explain major concepts in the Natural Sciences (NS) and show an understanding of (1) scientific (vs. non-scientific) approaches to problem-solving, (2) tools & methods used by scientists to study nature, (3) Darwin's principle of evolution by natural selection & how it shaped life, (4) how research in NS informs society, including ethics.
- ASSESSMENT:** Student performance will be assessed by matching-format tests in the lecture. In the lecture, selected exam questions will assess for students' critical thinking ability and empirical and quantitative skills. Benchmark: 50% of students scoring correctly on each of those assessments. In the laboratory, learning outcomes will be assessed via (1) homework, (2) oral presentation, (3) weekly exercises, (4) quizzes, and (5) maintaining a lab notebook. Evaluation of Natural Sciences comprehension will be accomplished by lab assessment assignments throughout the semester.
- SPEC.NEEDS:** Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should notify the instructor during the first week of the semester so that accommodations can be made.
- HOLIDAYS:** Any student who will miss a test(s) because of a recognized religious holiday(s) must notify the instructor during the first week so that alternative arrangements can be made.
- GENERAL:** Please silence & put away your cell phone before class begins. Do not bring snacks or drinks to class. Do not use any form of tobacco or gum during class. Excessive noise or disruptive behavior may result in eviction from class. Cheating will not be tolerated. Identification may be checked on test dates. Your test form must be turned in with scantron; failure to comply will result in a zero grade. There is no seating chart. If you must leave early, sit near the back.
- OFFICE HRS:** Office hours Tues./Thurs. 4:30-5:30 PM, 417 Biol. (834-3283). No e-mail (sorry!)
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