# BIOL 1413 - General Zoology

**Spring 2022 Syllabus**

**Course Description:** Fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology.

**Course Information:**

*BIOL* ***1413-002*** *Lecture*: 9:30AM-10:45AM, TR, Science 80

*BIOL* ***1413-002*** *Lab*: 11:00AM-12:15PM, TR, Science 194

**Instructor:** Mark A. Lee

**Contact:**

*Email*: mlee@southplainscollege.edu

 *Office*: Science 79

 *Office Phone*: 806-716-2319 (leave a message)

 *Office Hours*: MWF from 9:00AM to 12:00PM (or by appointment)

**Textbooks**

I am not requiring any textbooks this semester; however, students may be interested in picking up either of the following to use as additional resources:

*Zoology*, 11th edition. Stephen A. Miller and Tupper 2019. ISBN13: 9781259880025.

*Integrated Principles of Zoology.* 18th Edition. Hickman et al. 2020. ISBN13: 9781260205190.

**Course Learning Outcomes:**

* *Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data (lab).*
* *Use critical thinking and scientific problem-solving to make informed decisions in the laboratory (lab).*
* *Communicate effectively the results of scientific investigations (lab).*
* Compare and contrast the structures, reproduction, and characteristics of animals.
* Describe the characteristics of life and the basic properties of substances needed for life.
* Identify the principles of inheritance and solve classical genetic problems.
* Describe phylogenetic relationships and classification schemes.
* Identify the major phyla of life with an emphasis on animals, including the basis for classification, structural and physiological adaptations, evolutionary history, and ecological significance.
* Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
* Identify the substrates, products, and important chemical pathways in respiration.
* Describe the unity and diversity of animals and the evidence for evolution through natural selection.
* Describe the reasoning processes applied to scientific investigations and thinking.
* Describe basic animal physiology and homeostasis as maintained by organ systems.
* Describe modern evolutionary synthesis, natural selection, population genetics, micro and macroevolution, and speciation.
* Describe the structure of cell membranes and the movement of molecules across a membrane.

**Course Schedule**

The instructor reserves the rights to make modifications to the course content and curriculum at any time. Students will be notified of these changes ahead of time. The following schedule is a tentative guideline for the semester:

 

**Policies and Procedures**

 *Attendance Policy:*

Attendance is required for both lectures and labs. Students will be responsible for catching up on any material they miss due to absences. Unexcused absences will result in an automatic zero for any assignments missed. If you have a valid excuse for being absent, it is your responsibility to let me know (preferably beforehand) so that reasonable accommodations can be made.

*Classroom/Lab Policy:*

Students are expected to pay attention and not be disruptive. Food and drink will be permitted during lecture as long as it is not messy and/or disruptive. I reserve the right to change this policy should students abuse it. Tobacco is not permitted in lab or lecture. Furthermore, long pants/dresses and close-toed shoes are required for lab.

*Phone Policy:*

Students may have their phone in lecture and lab so long as they are not disruptive to other students and aren’t using it when they should be paying attention. I reserve the right to change this policy should students abuse it. Students can step out into the hallway if they need to make a phone call.

 *Course Grade Policy:*

The grade for this course will be based on:

 Four exams (100 points each)

 Final lab practical (100 points each)

 Daily lecture quiz average (100 points)

 Weekly lab assignment average (100 points)

*Exam Policy:* Exams will not be cumulative, and can consist of multiple choice, fill-in-the-blank, true-false, and short answer questions. Unless you have an excused absence, missing the exam will earn an automatic zero.

*Quiz/Assignment Policy:* Quizzes will be given every day at the beginning of lecture and will cover the previous lecture’s material. Your lowest quiz grade will be dropped – if you miss a quiz, that will count as your lowest quiz grade.Lab assignments will be assigned each week and must be completed before the start of lab the following week. Your lowest assignment grade will be dropped. If you fail to submit a lab assignment, that will count as your lowest assignment grade.

*Drop Procedure:* Students who wish to drop the course during the semester will have until April 28th to do so.

**Student Conduct**

Failure to comply with lawful direction of a classroom teacher relative to maintaining good order is
considered misconduct on the part of the student. Repeated or severe violations of disrupting a class may result in the student being dropped from that course. Refer to the *South Plains College Student Guide* for more information.

**Academic Integrity**

It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension. Refer to the *South Plains College Student Guide* for more information.

**COVID-19 Statement**

Consistent with the latest CDC recommendations, we have revised our guidance for students, faculty, and staff who have a known exposure or have tested positive. Anyone with a known exposure should wear a mask for 10 days and should seek a COVID-19 test on day five after exposure. If you test positive or develop symptoms, you should immediately self-isolate and seek a COVID-19 test. Please immediately notify your instructor, supervisor, and DeEtte Edens, Associate Director of Health and Wellness, any time you test positive for COVID-19. Anyone who tests positive is required to self-isolate for five days. Following the five-day isolation period, if you are asymptomatic or your symptoms are resolving, you may return to work or class but should wear a mask for five additional days. If you are still symptomatic, please contact DeEtte Edens at dedens@southplainscollege.edu or 806-716-2376 prior to your return date.

**Diversity Statement**

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

**Disabilities Statement**

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

**Non-discrimination Statement**

South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX  79336. Phone number 806-716-2360.

**Title IX Pregnancy Accommodations Statement:**

If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education.  To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness.  Once approved, notification will be sent to the student and instructors.  It is the student’s responsibility to work with the instructor to arrange accommodations.  Contact the Director of Health and Wellness at 806-716-2362 or email rcanon@southplainscollege.edu for assistance.