BIOL 4427 – Herpetology Fall 2025

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Office Number: Science and Technology 311A **Office Hours*:** T:1-3pm, Th 11-2pm

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Office Telephone Number: 210/784-2473 Website: Watson Laboratory Website

*Additional times or virtual meetings available upon request. Office Zoom Link.

Teaching Assistant: Angela Roth, aroth@tamusa.edu

Time and Place of Class Meetings:

BIOL 4427 lectures will take place on Mondays and Wednesdays from 9:30-10:45am in the SciTech building room 227. Biology 4427 laboratories will be held on Mondays (section 03L) from 3:00-5:45pm and Tuesdays (section 02L) in room 310 of the Central Academic Building.

Description of Course Content:

Evolution, anatomy, physiology, behavior, and ecology of amphibians and reptiles from a local and world-wide perspective. With laboratory section in which local forms will be emphasized. TSI Restriction(s): Reading, Math, and Writing. Concurrent laboratory participation is required. **Prerequisite(s): BIOL 1307**

Note: Modern Biology is an integrative discipline, incorporating elements of Mathematics, Chemistry, Computer Science, and Writing. We expect that you have at least a basic understanding of each of these elements.

Student Learning Outcomes:

- 1. Gain a working knowledge of anatomy, physiology, diversity, evolutionary histories, phylogenetic relationships, and distributions of Amphibians and Reptiles.
- Understand how studies of Amphibians and Reptiles have contributed to our broader biological knowledge.
- Be familiar with current and historic figures and their research in Herpetology.
- 4. Learn how to prepare and catalog specimens and access data from Herpetological Collections.
- 5. Learn how to plan and execute a study using Amphibians and Reptiles as models.

Career-related Outcomes:

- Research and Scientific Inquiry: Hands-on experience in data collection, analysis, and observation.
- 2. **Environmental and Wildlife Management**: Students develop a deep understanding of herpetofauna ecology, conservation challenges, and habitat management.
- 3. **Education and Outreach**: Learn effective methods for communicating information to an audience.

Recommended Textbooks and Other Course Materials:

Peterson Field Guide to Reptiles and Amphibians Eastern & Central North America by Robert Powell (Author), Roger Conant (Author), Joseph T. Collins (Author)

ISBN-10: 0544129970 ISBN-13: 978-0544129979

A computer with internet access.

Blackboard Ultra:

This class uses the learning management system Blackboard Ultra to administer content and evaluate understanding. I will post links to videos, notes, reading materials, digital supplements, and administer essay exams from this learning platform.

Grading Policy:

Biology 4427 consists of both a lecture and laboratory component. There are no separate lecture and laboratory grades. Your percentage grade will be determined by dividing the number of points you earned by the total number of points offered (700). I use the following standard scale when assigning your overall grade: 90-100%=A, 80-89%=B, 70-79%=C, 60-69%=D, 0-59%=F.

Grade Components:

Your performance will be assessed with four take-home essay exams (100 points each), two laboratory practicals (50 points each), five laboratory exercises (10 points each), one presentation over a historical figure in Herpetology (25 points), one report/presentation over a reptile (25 points), one report/presentation over an amphibian (25 points), iNaturalist contributions (50 points), and contribution to our weekly class discussions (25 points). (700 points total) I will reward particularly insightful points and extraordinary work with credit exceeding these point totals. Written exams cover both specific and conceptual questions.

Essay Exams: There will be four take-home essay exams that require you to read, interpret, and cite sources. You may use textbooks, notes, and any other available resources as long as they are properly cited. These essays should be typed and submitted online via Turnitin. A detailed grading rubric will be posted prior to the first exam. A minimum of one week is provided to complete each exam and, given the nature of the exams, it may take me up to two weeks to grade them.

Laboratory Practicals: There will be two laboratory practicals requiring you to correctly identify species and major morphological features of members of the major Amphibians and Reptile families.

Laboratory Exercises: Four laboratory exercises requiring you to access and evaluate data on Amphibians and Reptiles as well as cataloging specimens in the current TAMUSA natural history collection.

Historical Figure Presentation: (60-second Scientist) You will research a historical figure in the field of Herpetology and prepare a 1-minute video presentation on their life and contribution to the field. Instructions will be posted by the second week of classes.

Report/Presentation on Species: You will each be assigned a species of local amphibian and reptile about which you will write a 1-page report and prepare and deliver a 3-5 minute presentation in lab.

iNaturalist Contributions: You will make a minimum of 10 records (5 points each) of encounters with reptiles or amphibians in the wild. Download the iNaturalist App on your phone, create a profile for yourself, and join the "TAMUSA Herpetology" project.

Participation in Class Discussion: During class, I will note your contributions to our conversations on weekly topics. You do not have to comment every class period, but you should make multiple comments throughout the semester.

THERE WILL BE NO INDIVIDUAL EXTRA CREDIT.

Academic Accommodations for Individuals with Disabilities:

Texas A&M University-San Antonio is committed to providing all students with reasonable access to learning opportunities and accommodations in accordance with The Americans with Disabilities Act, as amended, and Section 504 of the Rehabilitation Act. If you experience barriers to your education due to a disability or think you may have a disability, Disability Support Services is located in the Central Academic Building, Suite 210. You can also contact us via phone at (210) 784-1335, visit us https://www.tamusa.edu/Disability-Support-Services/index.html or email us at dss@tamusa.edu. Disabilities may include, but are not limited to, attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability-related needs with Disability Support Services as soon as possible.

Academic Learning Center:

The Academic Learning Center provides free course-based tutoring to all currently enrolled students at Texas A&M University-San Antonio. Students wishing to work with a tutor can make appointments through the Brainfuse online tutoring platform. Brainfuse can be accessed in the *Tools* section of Blackboard. You can contact the Academic Learning Center by emailing tutoring@tamusa.edu, calling (210) 784-1307, or visiting the Central Academic Building, room 202.

Counseling/Mental Health Resources:

As a college student, there may be times when personal stressors interfere with your academic performance and negatively impact your daily functioning. If you are experiencing emotional difficulties or mental health concerns, support is available to you through the Student Counseling Center (SCC). To schedule an appointment, call 210-784-1331 or visit Madla 120.

All mental health services provided by the SCC are **free and confidential** (as the law allows). The Student Counseling Center provides brief individual and group therapy, crisis intervention, consultation, case management, and prevention services. For more information on SCC services visit http://tamusa.edu/studentcounseling

Crisis support is available 24/7 by calling the SCC at 210-784-1331.

Additionally, the TELUS Student Support App provides a variety of mental health resources to including support for in the moment distress, an anonymous peer-to-peer support network, mental health screenings, podcasts, and articles to improve your mental wellbeing.

Call. Chat. Anytime. Anywhere.





Download the Student Support app today.

Emergency Preparedness:

JagE Alert is Texas A&M University-San Antonio's mass notification system. In the event of an emergency, such as inclement weather, students, staff and faculty, who are registered, will have the option to receive a text message, email with instructions and updates. To register or update your information visit: https://tamusa.bbcportal.com/. More information about Emergency Operations Plan and the Emergency Action Plan can be found here.

Download the SafeZone App (https://safezoneapp.com/) for emergencies or call (210) 784-1911. Non-Emergency (210) 784-1900.

Financial Aid and Verification of Attendance:

According to the following federal regulation, 34 CFR 668.21: U.S. Department of Education (DoE) Title IV regulation, a student can only receive Title IV funds based on Title IV eligibility criteria which include class attendance. If Title IV funds are disbursed to ineligible students (including students who fail to begin attendance), the institution must return these funds to the U.S. DoE within 30 days of becoming aware that the student will not or has not begun attendance. Faculty will provide the Office of Financial Aid with an electronic notification if a student has not attended by the published Census Date (the first week of class). Any student receiving federal financial aid who does not attend prior to the published Census Date (the first week of class) will have their aid terminated and returned to the DoE. Please note that any student who stops attending at any time during the semester may also need to return a portion of their federal aid.

Writing, Language, and Digital Composing Center:

The Writing, Language, and Digital Composing Center supports graduate and undergraduate students in all three colleges as well as faculty and staff. Tutors work with students to develop reading skills, prepare oral presentations, and plan, draft, and revise their written assignments. Our language tutors support students enrolled in Spanish courses and students composing in Spanish for any assignment. Our digital studio tutors support students working on digital projects such as eportfolios, class presentations, or other digital multimedia projects. Students can schedule appointments through JagWire under the Student Services tab. Click on "Writing, Language, and Digital Composing Center" to make your appointment. The Center offers face-to-face, synchronous online, and asynchronous digital appointments. More information about what services we offer, how to make an appointment, and how to access your appointment can be found on our website at https://www.tamusa.edu/academics.
Meeting Basic Needs: Any student who has difficulty affording groceries or accessing sufficient food to eat every day or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to submit a CARE referral (https://www.tamusa.edu/university-policies/Student-Rights-and-Responsibilities/file-a-report.html) for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to direct you to available resources.

Office Hours:

All faculty with teaching assignments should include regularly scheduled office hours on each syllabus in addition to "by appointment." Please review your appointment letter for the number of weekly office hours you are expected to set. Regularly scheduled office hours should also be posted outside your office door (where applicable).

Military Affairs:

Veterans and active-duty military personnel are welcomed and encouraged to visit the Office of Military Affairs for any question involving federal or state VA Education Benefits. Visit the Patriots' Casa building, room 202, or to contact the Office of Military Affairs with any questions at military.va@tamusa.edu or (210)784-1397.

Religious Observances:

Texas A&M University-San Antonio recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided with an opportunity to make up any examination, study, or course work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes for regular session classes.

The Six-Drop Rule:

Students are subject to the requirements of Senate Bill (SB) 1231 passed by the Texas Legislature in 2007. SB 1231 limits students to a maximum of six (6) non-punitive course drops (i.e., courses a student chooses to drop) during their undergraduate careers. A non-punitive drop does not affect the student's GPA. However, course drops that exceed the maximum allowed by SB 1231 will be treated as "F" grades and will impact the student's GPA.

Statement of Harassment and Discrimination:

Texas A&M University-San Antonio is committed to the fundamental principles of academic freedom, equal opportunity, and human dignity. To fulfill its multiple missions as an institution of higher learning, A&M-San Antonio encourages a climate that values and nurtures collegiality and the uniqueness of the individual on our campus and within our state, nation, and world. All decisions and actions involving students and employees are to be based on applicable law and individual merit. Texas A&M University-San Antonio, in accordance with applicable federal and state law, prohibits discrimination, including harassment, on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, or pregnancy/parenting status. Individuals who believe they have experienced harassment or discrimination prohibited by this statement are encouraged to contact the University's Civil Rights Officer at 210-784-2061 or titleix@tamusa.edu.

Texas A&M University-San Antonio faculty are committed to providing a safe learning environment for all students and for the university as a whole. If you have experienced any form of sex- or gender-based discrimination or harassment, including sexual assault, sexual harassment, domestic or dating violence, or stalking based on sex, know that help and support are available. A&M-San Antonio's Title IX Coordinator can support those impacted by such conduct in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, and more. The university

strongly encourages all students to report any such incidents to the Title IX Coordinator. Please be aware that all A&M-San Antonio employees (other than those designated as confidential resources such as counselors and trained victim advocates) are required to report information about such discrimination and harassment to the university. This means that if you tell a faculty member about a situation of sexual harassment, sexual violence, or other related sex-based misconduct, the faculty member must share that information with the university's Title IX Coordinator (titleix@tamusa.edu, 210-784-2061, CAB 439K). If you wish to speak to a confidential employee who does not have this reporting requirement, you can contact the Student Counseling Center at (210) 784-1331 or visit them in Madla 120.

Pregnant/Parenting Students:

Texas A&M-San Antonio does not require a pregnant or parenting student, solely because of that status or issues related to that status, to (1) take a leave of absence or withdraw from their degree or certificate program; (2) limit the student's studies; (3) participate in an alternative program; (4) change the student's major, degree, or certificate program; or (5) refrain from joining or cease participating in any course, activity, or program at the University. The university will provide such reasonable modifications to pregnant students as would be provided to a student with temporary medical condition that are related to the health and safety of the student and the student's unborn child. These could include maintaining a safe distance from substances, areas, and activities known to be hazardous to pregnant individuals and their unborn child; excused absences because of illness or medical appointments; modified due dates for assignments; rescheduled tests/exams; taking a leave of absence; and being provided access to instructional materials and video recordings of lectures for excused absences, if these would be provided to any other student with an excused absence. Pregnant/parenting students are encouraged to contact the Title IX Coordinator with any questions or concerns related to their status (titleix@tamusa.edu; 210-784-2061; CAB 439K). Texas A&M-San Antonio has also designated the Title IX Coordinator as the liaison officer for current or incoming students who are the parent or guardian of a child younger than 18 years of age. The Title IX Coordinator can provide students with information regarding support services and other resources.

Young Jaguars:

can support parenting students with daycare who meet this criteria: Must be enrolled in classes at TAMUSA in the current semester. Must be Pell eligible or a single parent. They serve children ages 3 to 12-years-old. Children must be enrolled in Pre-K-3 through 6th grade. youngjaguars@tamusa.edu (210) 784-2636

Students' Rights and Responsibilities:

The following statement of students' rights and responsibilities is intended to reflect the philosophical base upon which University Student Rules are built. This philosophy acknowledges the existence of both rights and responsibilities, which is inherent to an individual not only as a student at Texas A&M University-San Antonio but also as a citizen of this country.

Students' Rights

1. A student shall have the right to participate in a free exchange of ideas, and there shall be no University rule or administrative rule that in any way abridges the rights of freedom of speech, expression, petition and peaceful assembly as set forth in the U.S. Constitution.

- 2. Each student shall have the right to participate in all areas and activities of the University, free from any form of discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, disability, age, sexual orientation, gender identity, gender expression, and pregnancy/parenting or veteran status in accordance with applicable federal and state laws.
- 3. A student has the right to personal privacy except as otherwise provided by law, and this will be observed by students and University authorities alike.
- 4. Each student subject to disciplinary action arising from violations of university students' rules shall be assured a fundamentally fair process.

Students' Responsibilities

- 1. A student has the responsibility to respect the rights and property of others, including other students, the faculty, and administration.
- 2. A student has the responsibility to be fully acquainted with the published University Student Rules found in the Student Handbook, <u>Student Code of Conduct</u>, on our website, and University Catalog, and to comply with them, as well as with federal, state, and local laws.
- 3. A student has the responsibility to recognize that student actions reflect upon the individuals involved and upon the entire University community.
- 4. A student has the responsibility to recognize the University's obligation to provide a safe environment for learning.
- 5. A student has the responsibility to check their university email for any updates or official university notifications.

We expect that students will behave in a manner that is dignified, respectful, and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation, or disability. Conduct that infringes on the rights of another individual will not be tolerated.

Students are expected to exhibit a high level of honesty and integrity in their pursuit of higher education. Students engaging in an act that violates the standards of academic integrity will find themselves facing academic and/or disciplinary sanctions. Academic misconduct is any act, or attempt, which gives an unfair advantage to the student. Additionally, any behavior specifically prohibited by a faculty member in the course syllabus or class discussion may be considered as academic misconduct.

For more information on academic misconduct policies and procedures please review the <u>Student Code</u> of <u>Conduct</u> or visit the resources available in the <u>OSRR website</u>.

AI: Option 3 – Broader Use of Generative AI Permitted Within Guidelines

Use of artificial intelligence (AI) tools, including ChatGPT, is permitted in this course for students who wish to use them. To adhere to our scholarly values, students must cite any AI-generated material that informed their work (this includes in-text citations and/or use of quotations, and in your reference list). Using an AI tool to generate content without proper attribution qualifies as academic dishonesty and violates Texas A&M-San Antonio's standards of academic integrity.

NOTE: Guidance for how to cite Al-generators, like ChatGPT, can be found here.

Important Dates: Fall 2025 Regular 16-Week Session

August 25 First day of class

September 1 Labor Day Holiday – No classes

September 10 Census Date

November 14 Last day to drop with an automatic "W"

November 25 Last day to withdraw from the University

November 26 Study Day – No classes

November 27-29 Thanksgiving Holiday – No classes

December 4 Last day of classes
December 5 Study Day – No classes

December 6-12 Final exams

December 16 Commencement

The complete academic calendar is available online <u>here</u>.