

**BIOL 3318-110, CRN 80011, Animal Physiology
Fall 2019
Texas A&M University-Central Texas**

COURSE DATES, MODALITY, AND LOCATION

Course dates: August 26th- December 13th

Warrior Hall, Rm 314

2:30-3:45 pm, Mondays and Wednesdays

This course meets face-to-face two times a week, and students are expected to be prepared for class by reading the chapter and doing the required homework to turn in for each chapter.

This course uses the A&M-Central Texas Canvas Learning Management System [<https://tamuct.instructure.com>].

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Angela Parsons

Office: Adjunct office room 419 Warrior Hall

Phone: 512-695-1612

Email: aparsons@tamuct.edu

Office Hours

I will be here two hours before class and am available if you make an appointment.

Student-instructor interaction

I will check my email twice a day, but if you have an urgent question or would like to schedule a time for help, call my cell phone or text me. Make sure you identify yourself if you text me.

WARRIOR SHIELD

Emergency Warning System for Texas A&M University-Central Texas

Warrior Shield is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in Warrior Shield through their myCT email account.

Connect to Warrior Shield by [911Cellular](https://portal.publicsafetycloud.net/Account/Login) [<https://portal.publicsafetycloud.net/Account/Login>] to change where you receive your alerts or to opt out. By staying enrolled in Warrior Shield, university officials can quickly pass on safety-related information, regardless of your location.

COURSE INFORMATION

Course Overview and description

Explore mammalian physiology as well as other selected vertebrate taxa. Special emphasis on organ-system physiology, and cellular and molecular mechanisms in order to present a current

view of physiological principles. Highlights the nervous, muscular, cardiovascular, respiratory, renal, digestive, and endocrine physiology. Prerequisite(s): [BIOL 1407](#).

Course Objective

Student Learning Outcomes

Students will:

- a. develop a working knowledge of the major physiological systems, and be able to associate anatomical areas with their specific function.
- b. develop an understanding of the role of evolutionary processes (e.g. natural selection) in driving the organization of physiological systems.
- c. understand important physiological challenges animals face, how those challenges vary in relation to the animals' environment, and the processes by which animals deal with these challenges.
- d. identify and describe structural differences of major physiological systems that characterize different taxonomic groups of animals.
- e. relate physiological processes, from the biochemical to the system level, to the function of the entire organism in its environment.

Required Reading and Textbook(s)

Sherwood, L., Klandorf, H., and Yancey, P. 2013. *Animal Physiology: From genes to organisms*, 2nd ed. Brooks/Cole, Cengage learning, Belmont, CA. ISBN: 9780840068651

COURSE REQUIREMENTS

Course Assessments:

- **40% Three lecture exams** worth 100 points each
Exam I will include SLOs a-e
Exam II will include SLOs a-e
Exam III will include SLOs a-e
- **25% Final Comprehensive Exam** worth 100 points
This will include SLOs a-e.
- **25% Assignments (chapter notes)** worth 100 points each
This topic is discussed later in the syllabus, but students are expected to **hand write** detailed chapter notes, and these will be due at the start of class for that chapter to be discussed. Instructor will check these for completeness and assign a grade based on effort put forth by the student. For example, Chapter 3 notes will be due at the start of class on the first day we discuss Chapter 3.
Chapter notes will include SLOs a-e.
- **10% Participation**, includes attendance, discussion, and classroom participation

Grading Criteria Rubric and Conversion

Grading scheme

A 4.00 (90 +) Achievement that is outstanding relative to the level necessary to meet course requirements.

B 3.00 (80-89%) Achievement that is significantly above the level necessary to meet course requirements.

C 2.00 (70–79%) Achievement that meets the course requirements in every respect.

D 1.00 (60–69%) Achievement that is worthy of credit even though it fails to meet fully course requirements.

F 0.00 (<60%) Represents failure and signifies that the work was either (1) completed but at a level of achievement that is not worthy of credit or (2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an “I” (incomplete).

I (Incomplete) The “I” shall be assigned at the discretion of the instructor when, due to extraordinary circumstances, the student was prevented from completing the work of the course on time. The assignment of an “I” requires a written agreement between the instructor and student specifying the time and manner in which the student will complete the course requirements. In no event may any such written agreement allow a period of longer than one year to complete the course requirements. For graduate and professional students, an “I” is to remain on the transcript until changed by the instructor or department. For all other students, work to make up an I must be submitted within one year of the last day of final examinations of the term in which the “I” was given; if not submitted by that time, then the “I” will automatically change to an F. *To obtain an incomplete you must have been doing passing work in the course*

Posting of Grades

- Grades will be posted on CANVAS as I am finished with my evaluation of your work.

COURSE OUTLINE AND CALENDAR

Complete Course Calendar

1. Week of August 26
 - a. Lecture Topic: Homeostasis and Integration/Cellular and Molecular Physiology
 - i. Chapters 1 and 2
2. Week of September 2
 - a. Lecture Topic: Cellular and Molecular Physiology/Membrane Physiology
 - i. Chapters 2 and 3
3. Week of September 9
 - a. Lecture Topic: Membrane Physiology/Neuronal Physiology
 - i. Chapters 3 and 4

4. Week of September 16
 - a. Lecture Topic: Neuronal Physiology /**EXAM 1 Chapters 1-4** (Wednesday)
 - i. Chapter 4 and exam
5. Week of September 23
 - a. Lecture Topic: Nervous systems
 - i. Chapter 5
6. Week of September 30
 - a. Lecture Topic: Sensory Physiology
 - i. Chapter 6
7. Week of October 7
 - a. Lecture Topic: Endocrine Physiology
 - i. Chapter 7
8. Week of October 14
 - a. Lecture Topic: Muscle Physiology
 - i. Chapter 8
9. Week of October 22
 - a. Lecture Topic: **Exam II Ch 5-8** (Monday), Circulatory Systems (Wednesday)
 - i. Chapter 9
10. Week of October 29
 - a. Lecture Topic: Circulatory Systems
 - i. Chapter 9
11. Week of November 4
 - a. Lecture Topic: Defense Systems/ Respiratory Systems
 - i. Chapters 10 and 11
12. Week of November 11 (no class Monday—Veteran’s Day observed)
 - a. Lecture Topic: Excretory Systems
 - i. Chapter 12
13. Week of November 18
 - a. Lecture Topic: Excretory Systems and **EXAM Chapters 9-12** (Wednesday)
 - i. Chapter 12
14. Week of November 25
 - a. Lecture Topic: Fluid & pH Balance
 - i. Chapter 13
15. Week of December 2
 - a. Lecture Topic: Digestive and Reproductive Systems
 - b. Chapters 14 and 16
16. Week of December 9
 - a. **Comprehensive Final Exam (Monday)**

Important University Dates

Calendar Deadlines

| Date | Description |
|----------------------|--|
| August 12, 2019 | Classes Begin for Minimester |
| August 23, 2019 | Classes End for Minimester |
| August 26, 2019 | Classes Begin for Fall Semester |
| August 26, 2019 | Add, Drop, and Late Registration Begins for 16- and First 8-week Classes \$25 Fee assessed for late registrants |
| August 28, 2019 | Deadline for Add, Drop, and Late Registration for 16- and First 8-week |
| September 2, 2019 | Labor Day (University Closed) |
| September 3, 2019 | Deadline to Drop First 8-week Classes with No Record |
| September 11, 2019 | Deadline to drop 16-week Classes with No Record |
| October 1, 2019 | Deadline for Teacher Education and Professional Certification |
| Applications | |
| October 4, 2019 | Deadline to Drop First 8-week Classes with a Quit (Q) or Withdraw (W) |
| October 15, 2019 | Deadline for Clinical Teaching/Practicum Applications |
| October 18, 2018 | Classes End for First 8-week Session |
| October 18, 2019 | Deadline to Withdraw from University for First 8-Week Classes (WF) |
| October 21, 2019 | Add, Drop, and Late Registration Begins for Second 8-Week Classes \$25 Fee assessed for late registrants |
| October 21, 2019 | Classes Begin for Second 8-Week Session |
| October 21, 2019 | Class Schedule Published for Spring Semester |
| October 22, 2019 | Deadline for Faculty Submission of First 8-Week Class Final Grades (due by 3pm) |
| October 23, 2019 | Deadline for Add, Drop, and Late Registration for Second 8-Week Classes |
| October 25, 2019 | Deadline for Graduation Application for Ceremony Participation |
| October 28, 2019 | Deadline to Drop Second 8-Week Classes with No Record |
| November 4, 2019 | Registration Opens for Spring Semester |
| November 8, 2019 | Deadline to Drop 16-Week Classes with a Quit (Q) or Withdraw (W) |
| November 11, 2019 | Veteran's Day (University Closed) |
| November 28-29, 2019 | Thanksgiving (University Closed) |
| November 29, 2019 | Deadline to Drop Second 8-Week Classes with a Quit (Q) or Withdraw (W) |
| December 13, 2019 | Deadline for Applications for Tuition Rebate for Fall Graduation (5pm) |
| December 13, 2019 | Deadline for Degree Conferral Applications to the Registrar's Office \$20 Late Application Fee |
| December 13, 2019 | Deadline to Withdraw from University for 16- and Second 8-Week Classes |
| December 13, 2019 | Fall Semester Ends |
| December 13, 2019 | Fall Commencement Ceremony |
| December 17, 2019 | Deadline for Faculty Submission of 16-Week and Second 8-Week Final |

Class Grades (due by 3pm)

December 23, 2019 - January 1, 2020

Winter Break (University Closed)

January 13, 2020

Add, Drop and Late Registration Begins for 16- and First 8-Week Classes

\$25 Fee assessed for late registrants

TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements

This course will use the A&M-Central Texas Instructure Canvas learning management system. Logon to A&M-Central Texas Canvas [<https://tamuct.instructure.com/>] or access Canvas through the TAMUCT Online link in myCT [<https://tamuct.onecampus.com/>]. You will log in through our Microsoft portal.

Username: Your MyCT email address. Password: Your MyCT password

Canvas Support

Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select "Chat with Canvas Support," submit a support request through "Report a Problem," or call the Canvas support line: 1-844-757-0953.

For issues related to course content and requirements, contact your instructor.

Other Technology Support

For log-in problems, students should contact Help Desk Central

24 hours a day, 7 days a week

Email: helpdesk@tamu.edu

Phone: (254) 519-5466

[Web Chat](http://hdc.tamu.edu): [<http://hdc.tamu.edu>]

Please let the support technician know you are an A&M-Central Texas student.

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy

If you discover that you need to drop this class, you must complete a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the Academic Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more [information regarding the Student Conduct process](https://www.tamuct.edu/student-affairs/student-conduct.html),
[https://www.tamuct.edu/student-affairs/student-conduct.html].

If you know of potential honor violations by other students, you may [submit a report](https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0),
[https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

Academic Accommodations

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university's programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Office of Access and Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and confidential and will be treated as such.

For more information please visit our [Access & Inclusion](https://tamuct.instructure.com/courses/717) Canvas page (log-in required)
[https://tamuct.instructure.com/courses/717]

Important information for Pregnant and/or Parenting Students

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit [Student Affairs](https://www.tamuct.edu/student-affairs/index.html) [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines](#) online, please visit the website

[<http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf>].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

Tutoring

Tutoring is available to all A&M-Central Texas students, both on-campus and online. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111. Tutor.com tutoring **will not** offer writing support beginning August 1, 2019.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 519-5796, or by emailing Dr. DeEadra Albert-Green at deeadra.albertgreen@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive online tutoring support at no additional cost. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

University Writing Center

Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

Students may arrange a one-to-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via [WOnline](https://tamuct.mywconline.com/) [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC and/or need any assistance with scheduling.

University Library

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our [Library website](http://tamuct.libguides.com/index) [http://tamuct.libguides.com/index].

OPTIONAL POLICY STATEMENTS

A Note about Sexual Violence at A&M-Central Texas

Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don't agree with their behaviors and tell survivors we will support them. Your actions matter. Don't be a bystander; be an agent of change. For additional information on campus policy and resources visit the [Title IX webpage](#)

[<https://www.tamuct.edu/departments/compliance/titleix.php>].

Behavioral Intervention

Texas A&M University-Central Texas cares about the safety, health, and well-being of its students, faculty, staff, and community. If you are aware of individuals for whom you have a concern, who are exhibiting behaviors that pose a threat to safety, or individuals causing a significant disruption to our community, please make a referral to the Behavioral Intervention Team. You can complete the [referral](#) online [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=2].

Anonymous referrals are accepted. Please see the [Behavioral Intervention Team](#) website for more information [<https://www.tamuct.edu/student-affairs/bat.html>]. If a person's behavior poses an imminent threat to you or another, contact 911 or A&M-Central Texas University Police at 254-501-5800.

INSTRUCTOR POLICIES

Read these carefully as I am strict with my policies.

Grading Policy and Point Breakdown. Grades in this course will be criteria-based on a number of activities including exams, discussion, and projects. This means that grades will not be curved and anyone achieving a 90% or above will receive an A in this course.

Grade Dispute Policy. Grading disputes must be put in writing (with justification such as supporting statements from the text or another credible source) and given to me no earlier than 24 hours after the assignment has been returned. I will consider your request carefully, but reserve the right to adjust your grade up or down.

Assignments. All assignments are to be turned in, on time (i.e. at class time on due date). For every chapter, you will be expected to **hand write** notes for the entire chapter, and present these to the instructor at the start of class. These will prepare you for lecture that day and force you to actually dive into the material, rather than just read it over. I will not accept e-mailed assignments of any kind or computer-generated notes.

Late Assignments. I expect all assignments to be turned in on time. Late assignments interfere with my ability to provide timely, detailed feedback, as well as with your ability to learn and process new material. Accordingly, any unauthorized late assignment will receive a 10% reduction in grade for each day it is late. No assignments will be accepted after it has been graded and returned.

Exams. The exams will be a mixture of matching, multiple choice and short answer, designed to provoke reflection, critical thought, and application of knowledge. You will receive a list of several sample or real exam questions ahead of time. You are encouraged to prepare for the exam by reviewing reading materials, outlining a draft of a response, and discussing these thoughts with your peers. You will then demonstrate your individual, integrated thoughts on the topic in a closed-book exam during the class period.

Missed exams. If you know you will miss an exam, please contact me BEFORE the exam. I will

gladly give make-up exams if the student has an unavoidable reason for missing the exam (i.e. death in the family, severe illness). Keep in mind that I will expect documentation of your reason for missing the exam (e.g. doctor's note, obituary notice). Exams must be made up within a week of the original scheduled date, no exceptions regardless of excuse.

Labs. A maximum of 3 absences will be allowed; additional absences in lab will result in an "F" for the entire course, regardless of excuse.

What I expect of you. To get the most out of this class, you are expected to conduct yourself in a professional manner, which includes contributing to class discussions, being punctual, and notifying me of absences in advance. Any inappropriate or offensive behavior of any kind (in class/lab/office or on assignments/exams) will be subject to a penalty commensurate with behavior.

Class Attendance. I expect that you attend each class session and arrive on time. If an unavoidable situation arises that prevents you from attending class, I expect that you also promptly contact me to discuss the missed material and get the notes from a classmate. I will not distribute my notes to students as they are often abbreviated and do not contain the detail needed to sufficiently understand the material.

What you can expect of me. You can expect me to start and end class on time, be available through office hours, e-mail, and by appointment, be responsive to student suggestions for course improvement, answer questions to the fullest extent possible and/or direct you to appropriate resources, return graded assignments and exams within a reasonable time frame, and treat you with respect as future colleagues.

Discussion. The topics in this class may encompass a diversity of issues that merit in-depth thought and discussion. Since individuals will be expressing their opinions, I expect that will you respect others' contributions, as you would want them to do for you.

Credits and Workload expectations. For undergraduate courses, one credit is defined as equivalent to an average of two hours of learning effort per week (over a full semester) necessary for an average student to receive an average grade for the course. A student taking a four-credit class that meets for four hours a week should expect to spend an additional eight hours a week outside the classroom in order to earn an average grade.

Class Structure. Classes will involve a balance of active lecture and engaging learning activities (either in lab or in class). I believe that students learn the theories and concepts much better when they have an active role. I know that this may be new to some of you, but please keep an open mind and I know that you will get more out of this class because of it.

Copyright Notice.

Students should assume that all course material is copyrighted by the respective author(s). Reproduction of course material is prohibited without consent by the author and/or course instructor. Violation of copyright is against the law and Texas A&M University-Central Texas' Code of Academic Honesty. All alleged violations will be reported to the Office of Student Conduct.

NOTE! The following *Science policies* are now in effect:

- a. Lecture courses
 - i. Exams
 1. There will be no bathroom breaks allowed during any exam. Be sure that you address this issue before beginning an exam.
 2. Any student needing to take an exam at a **different time** as rest of students due to sickness or other accommodations will receive a **different version of exam**. This includes sickness, special accommodations, etc....
 3. All students needing special accommodations must submit an accommodation form from the Office of Access and Inclusion listing the specific accommodations needed. Students are responsible for scheduling their own exam times with the TAMUCT Testing Center.
 4. Any student missing an exam in class for any other reason (i.e. illness, death in family, etc....) must provide documentation for missing the exam (e.g. doctor's note, obituary notice, etc....). Exams must be made up within one week of original scheduled date, no exceptions.
 5. Cell phones, smart watches, backpacks, coats, jackets, sweaters, purses, headphones, airpods and all other personal items must be handed to the teacher to be placed in front of the room, to be picked up by students when they hand in the exam.
 6. No jackets or sweaters may be worn without discussing with the instructor, and no jackets, sweaters or other items may be placed over the student's legs or any other body part while they are taking the test.