

Biology 1442, Spring 2014
Structure and Function of Organisms
Section 001 TR 9:30-10:50
102 Life Sciences

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Faculty Profile: <https://www.uta.edu/mentis/public/#profile/profile/edit/id/4019/>

Office Hours: MWF 12:00-1:00
TR 11:00-12:00 or by appointment

COURSE DESCRIPTION: An introduction to the structure and function of plants and animals (3 hrs credit). Topics to be covered include structure at the level of the cell, tissue, organ and individual growth, transport/circulation/gas exchange, nutrition, reproduction, development, endocrinology, and animal neural regulation. The laboratory will examine plant and animal structure and function with observational and experimental approaches. **Prerequisites:** BIOL 1441.

STUDENT LEARNING OUTCOMES: 1) To understand the major physiological mechanisms that allow plants and animals to function. 2) To further develop critical thinking and problem solving skills. 3) To connect previously learned biological concepts to new course material.

TEXTBOOK: Biology, 8th ed. or 9th ed., Campbell and Reece (access code **not** required)

LABORATORY MANUAL: The lab manual will be available for purchase IN LAB for \$20, cash or credit.

GRADING: Your lecture grade is 67% (2/3) of your total grade. Your lab grade is 33% (1/3) of your total grade.

- A. 3 Lecture Examinations, each 100 pts (multiple choice)
- B. Final Examination- comprehensive, 100 pts (multiple choice)
- C. Scientific Journal Presentation- 100 pts

***Total possible pts for lecture:** 500 pts

D. To calculate your grade:

Lecture- Add your exam points together and divide by 400, then multiply times 0.67.

Lab- multiply lab grade times 0.33.

*Add those numbers together for your final grade.

E. Grades: A = 89.5-100; B = 79.5-89.4; C = 69.5-79.4; D = 59.5-69.4; F = 59.4 and below

EXAM DAY: Scantron 882-E and a #2 pencil are required for exams. Your student ID is required for every examination. **If the answer is not marked on your scantron, but is circled on your exam, the answer does not count.** Please make sure you mark your scantron!

Scientific Journal Presentation: You will present a scientific journal article with your group to the class in a powerpoint presentation. Your instructor will select the article for you. You will be graded on comprehension, participation, and presenting skills.

IMPORTANT DATES:

Martin Luther King Holiday: Monday, January 20

Last day to withdrawal: Friday, March 28

Spring Break: March 10-14

Final Exam: Thursday, May 8, **8:00-10:30**, same room as lecture

MAKE-UP LECTURE EXAMINATIONS

You must provide adequate verification for a missed exam.

Sick- doctor's note; Car Accident- police report; Death- copy death certificate, immediate family only

ATTENDANCE POLICY: Attendance is highly recommended, excessive absences can affect your course grade. If you miss class, **YOU** are responsible for obtaining missed information, class notes, etc.

STUDENT WITH DISABILITIES: If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, **during the first week of the semester**, to make sure you are appropriately accommodated.

AMERICANS WITH DISABILITIES ACT: UTA is on record as being committed to equal opportunity legislation: reference Public Law 93112--The Rehabilitation "Act of 1973 as amended. As a faculty member, I am required by law to provide "reasonable accommodation" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.

STUDENT RESPONSIBILITIES:

A. Familiarize yourself with course syllabus. **YOU** are responsible for this information.

B. **Memorize your lecture section and your professor's and GTA's names.**

C. **Write your entire name and student number on anything you turn in to the instructor.**

D. Adhere strictly to standards of academic honesty, cheating results in an automatic F.

ACADEMIC INTEGRITY: It is the philosophy of UTA that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with university regulations and procedures. Discipline may include suspension or expulsion from the university. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Series 50101, Section 2.2).

BLACKBOARD: **You are responsible for checking Blackboard on a regular basis.** All class notes, grades and information, including this syllabus can be found on Blackboard. If you have any questions, **please check Blackboard first**, if you still cannot find the information you are looking for, then you may email me. **To access blackboard: elearn.uta.edu**

MavMAIL: UTA has adopted the university email address as an official means of communication with students. All students are assigned an email account and information about activating and using it is available at www.uta.edu/email. **Students are responsible for checking their email regularly.**

***Email Note:** When emailing me, **be sure to include your entire name, your class and your section**. I will not read it if this information is not available. Be professional and courteous. You should always address your professors as: Professor or Dr. and include their name in emails.

DROP POLICY: Students may drop classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center on the second floor of Davis Hall.

It is the student's responsibility to officially withdraw if they do not plan to attend after registering. *You* are responsible for seeing that all of the proper paperwork is completed and submitted to the appropriate university officials. If this paperwork is not completed, you will receive a letter grade corresponding to your earned grade, including zeros for all missed work. Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing.

As a result of recent legislation any student who enrolls in a public institution of higher education as a first-time freshman in Fall 2007 or later will be limited to six dropped courses during the course of their academic career. In addition, a student can only attempt the same course two times. On the third attempt, the student will be charged the equivalent of out-of-state tuition for the course.

Student Feedback Survey: At the end of each term, students enrolled shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. UT Arlington's effort to solicit, gather, tabulate, and publish

student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exits, which are located out the doors to the right and left. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.

BOMB THREAT: If anyone is tempted to call in a bomb threat, be aware that UTA will attempt to trace the phone call and prosecute all responsible parties. Every effort will be made to avoid cancellation of presentations/tests caused by bomb threats. Unannounced alternate sites will be available for these classes. Your instructor will make you aware of alternate class sites in the event that your classroom is not available.

STUDENT SUPPORT SERVICES: The University of Texas at Arlington has established a variety of programs to help students meet the challenges of college life. Support to students includes advising, counseling, mentoring, tutoring, supplemental instruction, and writing assistance. For a complete list of academic support services, visit the Academic Assistance resource page of the Office of Student Success Programs, www.uta.edu/uac/studentsuccess/academic-assistance. To help students address personal, academic and career concerns, individual counseling is also available. For more information, students are encouraged to contact Counseling Services www.counseling.uta.edu at (817) 272-3671 or visit a counselor in 216 Davis Hall.

SOAR TUTORING: SOAR (Students Obtaining Academic Readiness) is located in 132 Hammond Hall and offers free academic support for qualifying students and low-cost services for all students, including Cost Share Tutoring.

SUPPLEMENTAL INSTRUCTION (SI): SI Leaders are students who sit in your classroom right along with you and provide FREE tutoring for you according to your professor's coursework. Your SI Leader will be introduced to you and provide all of their contact information during the first week of class.

FINAL REVIEW WEEK: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabus. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. Classes are held as scheduled during this week and lectures and presentations may be given.

AFTER HOURS SAFETY ESCORT: The Sam Mav Escort service provides a service to assist students, faculty, staff and campus visitors to reach their destinations after regular business hours. The hours of service are 7:00 p.m. to 1:00 a.m., Sunday through Saturday. 817-272-3381

LAB INFORMATION: You must complete the online safety training **BEFORE** this lab begins. ***Note: only need to complete if you did NOT do so in the fall of 2013.**

Mandatory Online Safety Training:

1. Go to <http://www.uta.edu/training>.
2. Log on using your network log-on ID and password (what you use to access email).
3. The available courses for completion will be listed under "Training I'm Enrolled In". Complete the course entitled 'Student Lab Safety Training – General.'
4. If you have just completed the training but it is not updated on the 'Training I've Completed' page, please log out of the system and log back in. If the training still does not show up on this page, call the Helpline at **817-272-5100**.
5. If you were enrolled in a course with a lab last semester and did not complete the training or if you do not see training for this academic year listed, email compliance@uta.edu providing your name, a contact phone number, NetID and course (e.g. BIOL 1441-005) and request the appropriate training for your course.

6. Students who have not completed the training by census date may be dropped from the lab (and consequently the lecture).

7. Lab Safety Training is required to be completed once every academic year. Training completed in the Fall semester is valid for the Fall, Spring and Summer sessions.

For training specific questions, contact the Environmental Health and Safety office at 817-272-2185.

For technical assistance with the training, please contact the Office of Institutional Compliance at 817-272-5100 or email compliance@uta.edu

Tentative Lecture Schedule:

	Tuesday	Thursday	
Jan	14 Syllabus/ch 35	16 Ch 35	
	21 Ch 36	23 Ch 36/37	
	28 Ch 37/38	30 Ch 38/gr 1	
Feb	4 Ch 38/39	6 Ch 39	
	11 Exam 1	13 Ch 40	
	18 Ch 40/41	20 Ch 41	
	25 Ch 42	27 Ch 42/gr 2	
Mar	4 Ch 43	6 Ch 43	
	11 Spring	13 Break	

	Tuesday	Thursday	
Mar	18 Exam 2	20 Ch 44	
	25 Ch 44	27 Ch 45	Drop Date
Apr	1 Ch 45	3 Ch 46/gr 3	
	8 Ch 46/47	10 Ch 47	
	15 Exam 3	17 Ch 48	
	22 Ch 48	24 Ch 49/gr 4	
	29 Ch 49	1 review	
	6	8 Final 8-10:30	

Unit 1: PLANTS

Ch 35- Plant anatomy

Ch 36- How plants obtain nutrients

Ch 37- Soil, yes you have a whole chapter about dirt!

Ch 38- Plant reproduction

Ch 39- Plant hormones

Unit 2: ANIMALS

Ch 40- Animal form & function

Ch 41- Animal nutrition

Ch 42- Cardiovascular and respiratory systems

Ch 43- Immune system

Ch 44- Excretory system

Ch 45- Endocrine system

Ch 46- Animal reproduction

Ch 47- Animal development

Ch 48- Nervous system anatomy

Ch 49- Nervous system physiology