

BIOLOGY 1442-003: Structure and Function of Organisms, Spring 2013

T/Th 12:30-1:50 pm

GS100

Instructor(s): Professor Melissa Walsh

Office Number: Life Sciences #461

Office Telephone Number: 817-272-0107

Email Address: mjwalsh@uta.edu

Office Hours: Monday/Wednesday 9-10 am; Tuesday/Thursday 2-3 pm; or by appointment

Description of Course Content: An introduction to the structure and function of plants and animals. 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.

Student Learning Outcomes: Students will gain a comprehensive understanding of the 1) structure of animals and plants; 2) physiological processes which permit the functioning of plants and animals; 3) the interaction of anatomy and physiology in the context of environmental conditions; 4) plant and animal reproduction; 5) animal development

Requirements: Prerequisites: BIOL 1441

Required Textbooks: *Biology*, 8th or 9th ed. By Campbell and Reece

Course Assessment and Grading:

Two lecture examinations (17% each, lowest 1 of 3 lecture exam grades dropped) 34%

Comprehensive final exam 33%

Laboratory grade 33%

Grading: A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: below 60

THERE WILL BE NO EXTRA CREDIT OFFERED UNDER ANY CIRCUMSTANCES.

Exams

Exams may include any/all of the following question types: multiple choice, short answers/definitions, essays, true/false, matching, diagram labeling, graph drawing/interpreting. You will be required to bring a Scantron, a No. 2 pencil, and your UTA ID to every exam. You will be required to sign out when you hand in your finished exam.

Make-up Exams: There are no make-up exams. The lowest of 3 lecture exam grades will be dropped. If you miss an exam for any reason, that will count as your lowest exam score and will be dropped.

Attendance: Attendance at every lecture is mandatory. Students who attend lecture and are actively engaged in the course learn more and receive higher scores. Should you miss a lecture, you are expected to get the notes from a classmate. It is your responsibility to obtain any material you have missed.

Grade Grievances: It is a student's responsibility to contest any grade within ONE WEEK of the assignment or exam being returned to the class (regardless of your attendance). Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current undergraduate catalog.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) 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. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **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. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/ses/fao>).

Americans with Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the

form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102 ***within the first two weeks of the semester***. Only those students who have officially documented a need for an accommodation will have their request honored. See www.uta.edu/disability or call the Office for Students with Disabilities at (817) 272-3364.

Academic Integrity: At UT Arlington, academic dishonesty is completely unacceptable and will not be tolerated in any form, including (but 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” (UT System Regents’ Rule 50101, §2.2). Suspected violations of academic integrity standards will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

Classroom Etiquette: Cell phones are not permitted during class. They must be turned off and put away at the start of class. Laptops and tablets may be used for note-taking. Students are expected to be respectful to fellow students and faculty. Please do not talk or otherwise distract/disturb class. Always arrive to class on time.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may contact the Maverick Resource Hotline by calling 817-272-6107, sending a message to resources@uta.edu, or visiting www.uta.edu/resources.

Lab Safety Training: Students registered for this course must complete all required lab safety training prior to entering the lab and undertaking any activities. Once completed, Lab Safety Training is valid for the remainder of the same academic year (i.e., through the following August) and must be completed anew in subsequent years. There are no exceptions to this University policy. Failure to complete the required training will preclude participation in any lab activities, including those for which a grade is assigned.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>. ***I will respond to all emails within 24 hours.** Please note that you should always include your name, course, and section, as well as a specific description of the nature of your question/issue in all messages to me. This will assist me in responding appropriately and efficiently.

Blackboard: Please check blackboard frequently. Class notes, announcements, and grades will be posted to blackboard. Access Blackboard via <https://elearn.uta.edu>

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory will be asked to complete an online Student Feedback Survey (SFS) about the course and how it was taught. Instructions on how to access the SFS system will be sent directly to students through MavMail approximately 10 days before the end of the term. UT Arlington’s efforts to solicit, gather, tabulate, and publish student feedback data is required by state law; student participation in the SFS program is voluntary.

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. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Tentative Reading* and Examination Schedule

TOPIC	CHAPTER	TARGET WEEK
Course introduction/Syllabus		Jan 14
Animal Form and Function	40	
Animal Nutrition	41	Jan 21
Circulation and Gas Exchange	42	Jan 28
The Immune System	43	Feb 4
EXAM 1	40-43	Feb 7
Osmoregulation and Excretion	44	Feb 11
Animal Reproduction	46	Feb 18
Animal Development	47	Feb 25
Endocrine System	45	Mar 4
EXAM 2	44-47	Mar 7
Spring Break	-----	Mar 11-15
Nervous System Function	48	Mar 18
Nervous Systems	49	Mar 25
Plant Anatomy	35	Apr 1
Plant Transport	36	April 8
EXAM 3	48-49, 35-36	Apr 11
Plant Nutrition	37	Apr 15
Plant Reproduction	38	Apr 22
Plant Hormones Course Review	39	Apr 29
Final Exam (Comprehensive)		May 9 11am-1:30pm

**You are required and expected to read the chapter before coming to class.*