



**Biology 1441 Syllabus**  
**Fall 2012, 1441, Section 002, Room LS119**

**Instructor(s):** Dr. Shawn Christensen

**Office Number:** 333 Engineering Research Building (ERB)

**Office Telephone Number:** 817-272-0520

**Email Address:** [shawnc@uta.edu](mailto:shawnc@uta.edu)

**Office Hours:** MonWedFri 1:50 p.m. - 2:50 p.m.; If you are planning to meet me in my office instead of talking to me after class, please let me know ahead of time so that I know to meet you there; If I am not in my office try ERB 374.

**Course Number, Section Number, and Course Title:** Biol 1441, sec 002, Cell & Molecular Biology

**Time and Place of Class Meetings:** MonWedFri 1:00 p.m. - 1:50 p.m., 119 Life Science.

**Description of Course Content:** (BIOL 1441) The first of a three-part introductory biology sequence, this course focuses on the chemical and molecular basis of life, including metabolism, cell structure and function, and genetics. Laboratory experiments are designed to complement theory presented in lecture. Formerly listed as BIOL 1449; credit will not be given for both.

**Student Learning Outcomes:** To understand the essential details of cell and molecular biology at an introductory level.

**Requirements:** You are accountable for learning material covered in class as well as the book.

**Required Textbooks and Other Course Materials:** Biology, 9th Ed. By Campbell and Reece. (Note: 8th should generally be OK to use, but the 9th edition is considered to be the official text of the course)

**Course Schedule and Descriptions of major assignments and examinations:**

Course Outline:	
	Web of knowledge, Scientific Method, Critical Thinking
Chapter 2	The Chemical Context of Life
Chapter 3	Water and the Fitness of the Environment
Chapter 4	Carbon and Molecular Diversity
Chapter 5	The Structure and Function of Macromolecules
Chapter 6	A Tour of the Cell
<b>Exam #1 = approx. 1/4 of lecture grade</b>	
Chapter 7	Membrane Structure and Function
Chapter 8	An Introduction to Metabolism
Chapter 9	Cellular Respiration
Chapter 10	Photosynthesis
Chapter 11	Cell Communication
<b>Exam #2 = approx. 1/4 of lecture grade</b>	
Chapter 12	The Cell Cycle
Chapter 13	Meiosis and Sexual Life Cycles
Chapter 14	Mendel and the Gene Idea
Chapter 15	The Chromosomal Basis of Inheritance
Chapter 16	The Molecular Basis of Inheritance
Chapter 17	From Gene to Protein
<b>Final Exam = approx. 1/2 of lecture grade</b>	

**NOTE: Class notes and syllabus will be posted on the Blackboard® site for the class.**

Syllabus is also posted at <http://www.uta.edu/ra/real/editprofile.php?pid=1699&onlyview=1>

**Course Grade is based on exams (approx. 95% of grade) and chapter outlines (approx. 5% of grade).**

Important Dates:
Labor Day Holiday, Sept 3
Last day to drop classes, OCT 31
Thanksgiving Holiday, Nov. 22-25
Last day of classes, Dec. 5
Final Exam, Mon. Dec 10, 11am-1:30 pm

**Expectations for Out-of-Class Study:** Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 15 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc. A general rule of thumb is this: for every credit hour earned, a student should spend 3 hours per week working outside of class. Hence, a 5-credit course might have a minimum expectation of 15 hours of reading, study, etc. Some individuals will need more study time and some individuals less.

**Grading Policy:**

1/3 of course grade will be earned in laboratory 2/3 of course grade will be earned in lecture. Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels.

Lecture Grade: Exam #1 ~ 1/4 of lecture grade, Exam #2 ~ 1/4 of lecture grade, Final ~ 1/2 of lecture grade, chapter outlines ~ 1/20 of lecture grade.

Exams will be a mixture of short answer and multiple choice. Students are required to bring #2 pencil and a form 882E scantron to each exam. Mark answers firmly on scantron. Exams will not be regraded if you take exam incorrectly. Avoid erasures as much as possible. Erasures should be called to the attention of the professor at the time the scantron is turned in on the exam day.

89.5+ = A  
79.5-89.4 = B  
69.5-79.4 = C  
59.5-69.4 = D  
less than 59.5 = F

No make-up exams. Excused missed exams will be substituted for with final exam grade. Final exam is comprehensive. Unexcused absences will be zero for missed exam.

**Attendance Policy:** No formal policy, but you are accountable for learning material covered in class as well as the book.

**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. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability) or by calling the Office for Students with Disabilities at (817) 272-3364.

**Academic Integrity:** All students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

*I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*

*I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

Instructors may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) 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.

**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 visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to [resources@uta.edu](mailto:resources@uta.edu), or view the information at [www.uta.edu/resources](http://www.uta.edu/resources).

**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>.

**Student Feedback Survey:** At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory shall be directed to complete a 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. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. 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>.

**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.

**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.

## Must Complete Online Safety Training for Lab:

### 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). If you do not know your NetID or need to reset your password, visit <https://webapps.uta.edu/oit/selfservice/>.
3. The available courses for completion will be listed under "Training I'm Enrolled In". Complete the course entitled 'Student Lab Safety Training – General.' \*\*\*NOTE: If you completed Wet, Dry or Biology Lab Safety Training course last semester for another class, that training is still applicable until the end of this academic year. Please follow instructions in #4 to print the certification page for your TA.

4. Go to 'Training I've Completed' and print the displayed page for your TA. Verify that it shows clearly your name, and that 'General, Wet, Dry or Biology' training is completed/passed and the date when the training was completed. 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](mailto: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. It is your responsibility to print your training certification page and turn it in each semester to your TA for each course with a lab you are enrolled in.

*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](mailto:compliance@uta.edu)*