

Biology 1441L: Cellular and Molecular Biology Laboratory

Sections 004-022, Spring 2010

Rooms: LS 129, 205, or 207

Coordinator: Charles M. Watson, PhD

E-Mail: cwatson@uta.edu

Office: LS347

Office Phone: 817-272-0189

Office Hours: Monday and Wednesday: 4:00-5:30pm; T,Th,F by limited appointment

Web Site: <http://biology.uta.edu/cwatson/>

Instructors:

Check <http://biology.uta.edu/IntroLabs> for Instructor's e-mail and office hours

Course Description:

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.

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

Textbooks: Symbiosis: Cell and Molecular Biology Laboratory, Biology 1441 for The University of Texas Arlington. 2009. Boston, Massachusetts: Pearson, Benjamin Cummings. 280p.

Campbell and Reece. *Biology*, 8th (2007) edition

Website:

Additional materials relating to this lab can be accessed by following the 1441 link on the Introductory Laboratories website, <http://biology.uta.edu/IntroLabs>.

Grading:

1441 is a four-credit class that includes a lecture and a laboratory. For grading purposes, the lecture comprises 2/3 of your grade while other 1/3 is your lab grade. Therefore, you can multiply your final lecture grade by 0.66 and your lab grade by 0.33 and add them together to get your complete class grade. Your laboratory grade will be determined as follows. All exams are written in such a way that that can be answered on a scantron. For each exam, bring a scantron 882-E and a #2 pencil. *Erase at your own risk.* Grades on exams will not be changed due to an erasure.

Lab Grade Breakdown:

	Number	Points Each	Total
Quizzes	7	10	70
Web Assignment #1	1	20	20
Web Assignment #2-4	3	15	45
Lab Reports	2	50	100
In-Class Project	1	15	15
		Total Points:	250

All Quizzes will be taken at the beginning of class. If you are late, you will not be allowed to take the quiz. Web assignments and lab reports are due at the beginning of class on the next day that your lab section meets. Late work will not be graded.

THERE WILL BE NO EXTRA CREDIT, SO DO NOT ASK.

Attendance:

Attendance is mandatory. There will be no make-up quizzes and you must be present to gather the data for lab reports. A report that contains data gathered in your absence will be considered cheating and you will not receive credit for that assignment. Extreme circumstances will be considered on a case-by-case basis. Such cases will be reviewed by Dr. Watson and exceptions are granted at his discretion.

Conflict Resolution:

If you are experiencing an issue in lab, you should first arrange a meeting with your Graduate Teaching Assistant (the instructor of your lab). After you have met with your GTA and if the issue remains unresolved, you may then consult the laboratory coordinator. If the issue still requires attention, you may then consult the Assistant Chair of the Department of Biology. None of the listed personnel will discuss the issue with you until you have first consulted all of those preceding him/her. The Assistant Chair has final authority regarding any issue short of a filing a formal complaint with the university.

1. Graduate Teaching Assistant (Your Laboratory Instructor, see website for e-mail)
2. Laboratory Coordinator (Dr. Charles M. Watson, cwatson@uta.edu)
3. Assistant Chair of Biology (Dr. James Robinson, james.robinson@uta.edu)

Student Success Program:

The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. They include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107.

Drop for non-payment of tuition:

Payment must be received by the term due date of 13 January, 2010 or your registration will be cancelled and your seat will be released. If your registration is cancelled for non-payment, you may re-register for classes only if seats are available.

Americans with Disabilities Act:

If you are a student who requires accommodations in compliance with the ADA, please consult with me at the beginning of the semester. 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 of their need for accommodation and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at www.uta.edu/disability. Also, you may visit the Office for Students with Disabilities in room 102 of University Hall or call them at (817) 272-3364.

Academic Integrity:

It is the philosophy of The University of Texas at Arlington 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)

Note: WE WILL NOT TOLERATE CHEATING IN ANY FORM. IF YOU ARE CAUGHT, YOU WILL NOT RECEIVE CREDIT FOR THAT ASSIGNMENT AND MAY BE DISMISSED FROM LAB.

Student Support Services Available:

The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. These programs include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and appropriate referrals.

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 syllabi. 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. Drop for non-payment of tuition: Payment must be received by the term due date of January 13, 2010 or your registration will be cancelled. If your registration is cancelled for non-payment, you may reregister for classes but only if seats are available.

Bomb Threats:

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.

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

MavMail:

The University of Texas at Arlington has adopted the University email address as an official means of communication with students. Through the use of email, UT-Arlington is able to provide students with relevant and timely information, designed to facilitate student success. In particular, important information concerning registration, financial aid, payment of bills, and graduation may be sent to students through email. All students are assigned an email account and information about activating and using it is available at www.uta.edu/email. New students (first semester at UTA) are able to activate their email account 24 hours after registering for courses. There is no additional charge to students for using this account, and it remains active as long as a student is enrolled at UT-Arlington. Students are responsible for checking their email regularly.

Note: This is how we will communicate with you. You must start using MavMail...We will not e-mail to hotmail, yahoo, or any other non-UTA accounts.

Grade Grievance Policy:

Please refer to the current undergraduate catalog for the grade grievance policy and the required timeframe for filing an appeal.

Schedule:

	<u>Subjects Covered</u>	<u>Resources and Assignments</u>
Week 1: 01-05 February	Introduction Lab Safety The Metric System The Scientific Method	Syllabus Lab Manual pp 1-20 <i>Web Assignment #1</i>
Week 2: 08-12 February	Scientific Literature Data Presentation	Lab Manual pp 22-26 IntroLabs Website <i>Web Assignment #2</i>
Week 3: 15-19 February	Osmosis and Diffusion	Lab Manual pp 28-36 <i>Lab Report #1</i>
Week 4: 22-26 February	Microscope and Cells	Lab Manual pp 38-61 IntroLabs Website
Week 5: 01-05 March	Proteins and Enzymes	Lab Manual pp 62-73 <i>Web Assignment #3</i>
Week 6: 08-12 March	Photosynthesis and Respiration ***Spring Break: 15-19 March***	Lab Manual pp 74-81 IntroLabs Website <i>Lab Report #2</i>
Week 7: 22-26 March	Mitosis, Meiosis, and Genetics A	Lab Manual pp 82-107 IntroLabs Website <i>Web Assignment #4</i>
Week 8: 29 March-02 April	Mitosis, Meiosis, and Genetics B	SAA <i>In-Class Project</i>

Important Dates:

Drop for Non-Payment:	13 January
Census Date:	03 February
Last day to drop class:	02 April

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
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 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