

Biology 1441-001
Cellular and Molecular Biology
Class Schedule and Syllabus
Tuesday and Thursday, 9:30-10:50 am
118 Life Science Building

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Office phone: 272-1513
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Office Hours: 3:30-5 pm Tuesday and Thursday

Description of Course and Prerequisites:

1441. CELL AND MOLECULAR BIOLOGY (3-2) 4 hours credit (BIOL 1406). 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. Emphasis is placed on active learning. Students will use guided note-taking, personal response devices (clickers), and online activities and quizzes.

Required textbook: Biology, 7th Ed. by Campbell and Reece

Additional required materials for this course:

- Access code for online materials associated with Biology by Campbell and Reece. This is included with a new book or may be purchased separately at www.campbellbiology.com.
- EInstruction Personal Response Device (“clicker”) and registration for the device.

Online Class Websites:

- Class notes in a skeleton outline format and other important information about the class is available on the class website:
http://www.uta.edu/biology/classes/class_notes.htm
The password is westspr08
- Required quizzes from the Campbell and Reece website will be done online. You will need to register for the class in order to submit your quizzes. You can do this at: www.campbellbiology.com
The class code is: cm800628
- To use your Personal Response Device (“clicker”) in class, you must register at: www.EInstruction.com
The class code is: 135829b1

Course Outline:

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
Exam #1	Online quizzes for chapters 2-6 due by exam #1 Required quizzes are the Activities Quiz and the Chapter Quiz for each chapter.
Chapter 7	An Introduction to Metabolism
Chapter 8	Membrane Structure and Function
Chapter 9	Cellular Respiration
Chapter 10	Photosynthesis
Chapter 11	Cell Communication
Chapter 12	The Cell Cycle
Exam #2	Online quizzes for chapters 7-12 due by exam #2 Required quizzes are the Activities Quiz and the Chapter Quiz for each chapter.
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
Comprehensive Final Exam	Date of Final Exam is Thursday, May 8, 2008 at 8-10:30 am Online quizzes for chapters 13-17 due by final exam Required quizzes are the Activities Quiz and the Chapter Quiz for each chapter.

Important Dates:

Martin Luther King Holiday: Monday, January 21, 2008

Last day to drop classes is Friday, March 28, 2008

Spring Vacation: March 17-21, 2008

Last day of classes: May 2, 2008

Final Exam: **Thursday, May 8, 2008 at 8-10:30 am**

Grading Policy:

1/3 of course grade will be earned in laboratory

2/3 of course grade will be earned in lecture

Lecture Grade:

Lecture Exam average = 95%

Online quizzes and Class Participation = 5%

Lecture Exam Grade is calculated as follows:

Exam #1 = 1/4

Exam #2 = 1/4

Final exam = 1/2

Online quizzes and class participation grade will be based on percent of possible points earned from classroom “clicker” exercises and assigned online quizzes. Online quizzes must be completed by the posted dates. Clicker exercises will be done in class and cannot be made up if missed.

Students are required to bring #2 pencil and a form 882E scantron to each exam. Mark answers firmly on scantron. Exams will not be re-graded 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.

Grades will be determined based on these guidelines:

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 a grade of zero for missed exam.

Classroom Behavior: It is expected that student behavior will be courteous of the professor and other students. Students should arrive for class early and leave only at the end of class. During lectures there should be no distracting behavior including the use of headphones or other unauthorized electronic devices. Lap top computers should be used for note-taking only. Cell phones and pagers should be turned off during class. Students violating such norms will be expected to leave the classroom. **A personal response device (“clicker”) should be used only by the student who owns the device.**

Attendance: No formal policy. Students will be given credit for class participation, however. Class participation points may not be made up if missed.

Drop policy: This course may be dropped with a W only by the University's posted drop date. **After that date the course may not be dropped.**

Important University Policies

Americans with Disabilities Act (ADA): The University of Texas at Arlington is on record as being committed to both the spirit and the letter of federal equal opportunity legislation. As a faculty member, I am required by law to provide "reasonable accommodations: 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, and 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, Part One , Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22). I will follow University policy for disciplinary action for any acts of academic dishonesty.

Student Support Services: The University 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 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

Drop for Non-Payment of Tuition: Payment must be received by the term due date of January 9, 2008 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.

MavMail: The University of Texas at Arlington has adopted MavMail (e-mail) 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. New students (first semester at UTA) are able to access 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 MavMail regularly.

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.

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 the service are 7:00 pm to 1:00 am, Sunday through Saturday. (817) 272-3381

How to calculate your grade in Biology 1441

How to calculate your lecture grade for Biology 1441:

% Online Quizzes and Class Participation Grade	Average of Campbell Online Media Grade and Clicker Grade	X .05 =	
% Exam Average	See below.	X .95 =	
Lecture grade is sum of these.			

How to calculate your lecture exam average:

Lecture Exam #1 grade =	
Lecture Exam #2 grade =	
Lecture Final Exam X 2 =	
Total =	
Lecture Exam Average is total divided by 4 =	

How to calculate your overall grade for Biology 1441:

Lecture grade X 2 =	
Lab grade =	
Total =	
Total divided by 3 =	