

Biology 1441-005 Syllabus

Instructor: Dr. Maeli Melotto
B29 Life Science
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Time and place of class meetings: M, W, F, 11-11:50 am - LS 124

Office Hours: Wednesday and Friday 1-2 pm

Course description:

BIOL1441 - Cell and Molecular Biology - 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.

Textbook: Biology, 7th Ed, Campbell and Reece

Student Learning Outcomes:

You are expected to gain knowledge about the fundamentals of cell structure and function, metabolism, genetics, and inheritance.

Grading Policy:

1/3 of course grade will be earned in laboratory
2/3 of course grade will be earned in lecture

Lecture Grade: Exam #1 1/4 of lecture grade, Exam #2 1/4 of lecture grade, Final 1/2 of lecture grade. Students are required to bring #2 pencils 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.

90-100% = A
80-89% = B
70-79% = C
60-69% = D
less than 59.5% = F

Note: 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 exams.

Important Dates:

Last day to drop classes: March, 28
Spring Break: March, 17-21

Last day of classes: May, 02
Final Exam: May, 07 – 11am to 1:30 pm

Course Schedule:

Jan 14, 16 & 18	Chapter 2 The Chemical Context of Life
<i>Jan 21</i>	<i>Martin Luther King Jr. Day Holiday</i>
Jan 23 & 25	Chapter 3 Water and the Fitness of the Environment
Jan 28, 30 & Feb 1	Chapter 4 Carbon and Molecular Diversity
Feb 4, 6 & 8	Chapter 5 The Structure and Function of Macromolecules
Feb 11, 13 & 15	Chapter 6 A Tour of the Cell
Feb 18	Exam 1 = 1/4 of lecture grade
Feb 20 & 22	Chapter 7 An Introduction to Metabolism
Feb 25, 27 & 29	Chapter 8 Membrane Structure and Function
Mar 3, 5 & 7	Chapter 9 Cellular Respiration
Mar 10, 12 & 14	Chapter 10 Photosynthesis
<i>Mar 17-21</i>	<i>Spring Break</i>
Mar 24 & 26	Chapter 11 Cell Communication
Mar 28 & 31	Chapter 12 The Cell Cycle
Apr 2	Exam 2 = 1/4 of lecture grade
Apr 4 & 7	Chapter 13 Meiosis and Sexual Life Cycles
Apr 9 & 11	Chapter 14 Mendel and the Gene Idea
Apr 14, 16 & 18	Chapter 15 The Chromosomal Basis of Inheritance
Apr 21, 23 & 25	Chapter 16 The Molecular Basis of Inheritance
Apr 28, 30	Chapter 17 From Gene to Protein
May 02	Review
May 07, 11-1:30 pm	Comprehensive Final Exam = 1/2 of lecture grade

Important University Policies:

1) Americans with Disabilities Act:

The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 – The Rehabilitation Act of 1973 as amended. With the passage of federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

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.

2) 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, Series 50101, Section 2.2).

3) 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.

4) 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.

5) 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.

6) 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.

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.

7) 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.

8) MavMail:

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.