

Biology 1441-001  
Summer II 2012

**Instructor:** James Robinson

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**Office Hours:** M, T, W 10:00-10:20 am and 12:30-1:00 pm

**Section Information:** BIOL 1441-001

**Time and Place of Class Meetings:** M-TR 10:30 – 12:30, 122 Life Science

**Description of Course Content:** **BIOL 1441 CELL AND MOLECULAR BIOLOGY (3-2)** (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:** The student should develop a basic understanding of the essential details of cell and molecular biology at an introductory level.

**Required Textbooks and Other Course Materials:** *Biology*, 9<sup>th</sup> edition

**Descriptions of major assignments and examinations with due dates:**

**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
Chapter 7	Membrane Structure and Function

**Exam #1 = ¼ of lecture grade**

Chapter 8	An Introduction to Metabolism
Chapter 9	Cellular Respiration
Chapter 10	Photosynthesis
Chapter 11	Cell Communication
Chapter 12	The Cell Cycle

**Exam #2 = ¼ of lecture grade**

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

**Final Exam ½ of lecture grade. Comprehensive Final exam August 13, 2012, 10:30 am – 12:20 pm.**

**Grading Policy:**

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

Exam #1 = ¼ of lecture grade  
Exam #2 = ¼ of lecture grade  
Final = ½ of lecture grade

Students are required to bring #2 pencil and a scantron, form 882. Mark answers firmly on scantron. Exams will not be regarded if you take exam incorrectly. Erase mistakes completely.

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 quizzes.

**Attendance Policy:** No formal policy.

**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. Contact the Financial Aid Office for more information.

**Last day to drop without penalty is July 31, 2012.**

**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:** 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. According to the UT System Regents' Rule 50101, §2.2, "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."

**Student Support Services Available:** The University of Texas at 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. These resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals to resources for any reason, students may contact the Maverick Resource Hotline at 817-272-6107 or visit [www.uta.edu/resources](http://www.uta.edu/resources) for more information.

**Electronic Communication Policy:** The University of Texas at Arlington has adopted the University "MavMail" address as the sole official means of communication with students. MavMail is used to remind students of important deadlines, advertise events and activities, and permit the University to conduct official transactions exclusively by electronic means. For example, important information concerning registration, financial aid, payment of bills, and graduation are now sent to students through the MavMail system. All students are assigned a MavMail account. ***Students are responsible for checking their MavMail regularly.*** Information about activating and using MavMail is available at <http://www.uta.edu/oit/email/>. There is no additional charge to students for using this account, and it remains active even after they graduate from UT Arlington.

To obtain your NetID or for logon assistance, visit <https://webapps.uta.edu/oit/selfservice/>. If you are unable to resolve your issue from the Self-Service website, contact the Helpdesk at [helpdesk@uta.edu](mailto:helpdesk@uta.edu).

**Lab Safety Policy:** Students registered for this course must complete the University's required "Lab Safety Training" prior to entering the lab and undertaking any activities. Students will be notified via MavMail when their online training is available. Once notified, students should complete the required module(s) as soon as possible, but no later than their first lab meeting. **Until all required Lab Safety Training is completed, a student will not be given access to lab facilities, will not be able to participate in any lab activities, and will earn a grade of zero for any uncompleted work.**

Once completed, Lab Safety Training is valid for the remainder of the same academic year (i.e., through next August) for all courses that include a lab. If a student enrolls in a lab course in a subsequent academic year, he/she must complete the required training again.

To access your training, you must use your UT Arlington NetID and password. It is recommended that you complete the training using either Internet Explorer or Firefox. Technical questions about the training website should be directed to the University Compliance Services training helpline, 817-272-5100, or to [compliance@uta.edu](mailto:compliance@uta.edu). General questions about scope and content of the Lab Safety Training should be directed to the Office of Environmental Health and Safety, 817-272-2185, or to [ehsafety@uta.edu](mailto:ehsafety@uta.edu).

**After Hours Safety Escort:** Escort services are provided to assist students, faculty and staff and campus visitors to reach their destinations after regular business hours. Please call 817-272-3381 if you wish to have an escort to your vehicle.