

Biology 3315-001 Genetics
Summer II, 2012
M – TR 8:00 – 10:00 am
LS Room 122

INSTRUCTOR: James Robinson

OFFICE: 337 Life Science Building Box 19498

OFFICE HOURS: M, T, W 10:00 – 10:30 am and 12:30 – 1:00 pm

PHONE: 817-272-2419

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TEXT: Modern Genetics Analysis, by Griffiths, Lewontin, and Miller 2nd Edition

STUDENT LEARNING OUTCOMES:

The student should develop a basic understanding of transmission and molecular genetics.

ATTENDANCE POLICY: There is no formal attendance policy but attendance is recommended.

Grading: Two midterm exams, each worth 30% of the course grade, and a comprehensive final exam worth 40% will be averaged to obtain each individuals grade. Letter grades will be assigned on a curve, but the standard categories (i.e., 90+ =A, etc.) serve as defaults.

MAKE-UP EXAMS:

There will be no make-up exams allowed in this course.

WITHDRAWAL POLICY: Students may drop without penalty until July 31, 2012.

TENTATIVE SCHEDULE

The Structure of Genes and Genomes
Gene Function
The Transmission of DNA at Cell Division
Inheritance of Single-Gene Differences
Genetic Recombination in Eukaryotes

MIDTERM EXAM 1

Recombinant DNA and Genetic Engineering
Genomics
Gene Mutation: Origins and Repair Processes
Chromosome Mutations

MIDTERM EXAM 2

Regulation of Gene Transcription
From Gene to Phenotype
Regulation of Cell Number: Normal and Cancer Cells
The Genetic Basis of Development

COMPREHENSIVE FINAL EXAM: August 13, 2012, 8:00 – 10:00 am

Description and Prerequisites:

3315 GENETICS (3-0) 3 hours credit. Principles of molecular and classical genetics. The function and transmission of hereditary material in microorganisms, plants and animals, including humans.

Prerequisites: BIOL 1441, 1442 and 2343. F, S, SS.

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 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 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.

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/test 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 7:00am to 1:00 am, Sunday through Saturday. 817-272-3381