

Biometry 5314-001 120 Life Science  
Fall 2012  
Dr. James V. Robinson  
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337 Life Science  
Phone: 817-272-2419  
Class Time: 5:30 – 8:30 Tuesday

**BIOL 5314 BIOMETRY (3-0)**

An examination of statistical methods and procedures in relation to the design of biological experiments and the analysis of their results.

**Prerequisite:** consent of the instructor.

**Student Learning Outcomes:**

The student should develop a basic understanding of theoretical statistical distributions, hypothesis testing, analysis of variance and regression analysis.

Textbook:

Biometry, 4<sup>th</sup> Edition, Sokal and Rohlf  
Statistical Tables, 4<sup>th</sup> Edition, Rohlf and Sokal  
Office Hours: T, W, TR, 10:00 – 11:00

Email: [james.robinson@uta.edu](mailto:james.robinson@uta.edu)

Descriptive Statistics  
Introduction to Probability Distributions: Binomial and Poisson  
The Normal Probability Distribution  
Estimation and Hypothesis Testing

**Examination 1**

Introduction to Analysis of Variance  
Single Classification Analysis of Variance  
Nested Analysis of Variance  
Two-Way Analysis of Variance  
Assumptions of Analysis of Variance

**Examination 2**

Linear Regression  
Correlation  
Analysis of Frequencies

**Examination 3:** Dec. 11, 2012 5:30-8:00 PM

**Grading:** Final course grade will be based on the average of 3 exams.

**Make Up Policy:** no make-ups

**Attendance:** No formal attendance policy.

**Drop Date:** October 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).

**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 syllabus*. 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.

**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