

PATH 5025
Independent study in Biometry

Spring 2017

CLASS DAYS and TIME: 15 weeks to be arranged during the semester, preferably tuesdays and thursdays.

CLASSROOM: LIB 2.044

COURSE FACULTY: Thomas J Prihoda, PhD

OFFICE LOCATION and HOURS: 470.L, 8am to 5pm Monday to Friday

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TELEPHONE: 210-567-4018

READ THIS DOCUMENT CAREFULLY - YOU ARE RESPONSIBLE FOR ITS CONTENTS.

COURSE DESCRIPTION AND OBJECTIVES

Introductory statistics for graduate students including descriptive statistics, graphs, one sample and two sample t-tests, correlation and regression, oneway and twoway analysis of variance, with confidence intervals and sample size calculation and justification. Nonparametric versions for the above also. Executed using R.

Pre-requisites – Graduate student status.

Semester credit hours – One (1), two (2), or three (3) graduate student credit hours.

By the end of this course, each student should be able to:

- Understand and perform statistical analyses and graphics with computer software.
- Bar graphs, histograms, scatter plots, t-tests, F-tests, tests for normality, confidence intervals for one sample and two sample problems including proportions and non-parametric methods.

COURSE ORGANIZATION

The main teaching modalities used in this course include:

- 1) Lectures go through the examples in the chosen text.**
- 2) Problems are assigned from the text using data provided with the text.**
- 3) Students present solutions to some of the problems as assigned and bring articles for discussion of statistics included in them.**

Materials – Text chosen to match students needs, most commonly multiple regression or multifactor analysis of variance.

Computer Access – Microsoft Windows, MAC OS X, or Linux and software usefull to the student.

Reading Assignments – Reading and homework assignments are primarily from the chosen text.

ATTENDANCE

Attendance is not required so long as the homework assignments are turned in regularly.

TEXTBOOKS

Required: To be arranged with the needs of the student.

Recommended: Bring journal club articles with statistics of interest from the students' major.

GRADING POLICIES AND EXAMINATION PROCEDURES

Grades will be determined from grading the homework turned in as it is assigned from the text. Missed problems may be resubmitted for an additional half credit after they are initially graded.

Grading System

Include a grading scale used to determine final grades, see example below

A = 90-100% B = 80-89% C = 70-79% F = < 69%

REQUESTS FOR ACCOMODATIONS FOR DISABILITIES

In accordance with policy 4.2.3, **Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA)**, any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100). to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at <http://uthscsa.edu/eoo/request.asp>.

ACADEMIC INTEGRITY AND PROFESSIONALISM

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic 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 exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at <http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/>

TITLE IX AT UTHSCSA

Title IX Defined:

Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads "no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."

University of Texas Health Science Center San Antonio's Commitment:

University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at <http://students.uthscsa.edu/titleix/>

EMAIL POLICY

Students are encouraged to used e-mail to communicate with each other and with the instructor.

USE OF RECORDING DEVICES

Recording devices may be used if desired, by the students.

ELECTRONIC DEVICES

Other electronic devices may be used by the students if desired.

