

MATH 2334-01 Applied Stats for Health
Spring 2018

Instructor: Dr. George Yanev
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Times and location MW 9:25 – 10:40, Edu Complex 1.404 Office: MAGC 3.430 & hours: MW 11:00 – 12:00.

Textbook

Author: Samuels, Witmer, and Schaffner. Title: Statistics for the Life Sciences, either 4th or 5th edition, Pearson, ISBN: 978-0-321-98958-1.

Course Description and Prerequisites

Topics to be covered are: descriptive statistics (including data summarization and simple linear regression), basics of probability, inferential statistics (including hypothesis testing, confidence intervals, one-way analysis of variance, introduction to nonparametric statistics), and the basics of experimental design in the context of health related sciences and disciplines. Computer laboratory experience will be an important part of this course. Co/Prerequisites: MATH 1314, MATH 1414, MATH 1324, or MATH 1342 with a grade of 'C' or better.

Learning Objectives/Outcomes for the Course

Upon completing this course, students will have the ability to:

- Understand the concept of random sampling and learn some practical rules for collecting data.
- Apply graphical tools and numerical measures to describe and present the data.
- Work with both discrete and continuous random variables.
- Develop the view that statistics is an evolving discipline with fundamental importance to nearly all scientists, engineers, medical practitioners, jurists, and industrialists.
- Make statistical inferences including confidence intervals and hypothesis testing for the population mean and proportion.
- Understand how to perform and interpret the results of one-way analysis of variance (ANOVA).

Grading Policies

The course grade will be based on the aggregate score of:

- best two out of three midterm tests (30%+30%),
- HW assignments (15% totally). The HWs will be on WebWorks (<https://webwork.utpa.edu/>) and
- final examination (25%).

Academic Calendar

Important dates for Spring 2018 include:

Jan. 16 (Tues.) Spring classes begin
Jan 19 (Fri.) Last day to add a class or register for Spring classes
Jan. 22 (Mon.) Last day to withdraw (drop all classes) and receive an 80% refund
Jan. 29 (Mon.) Last day to withdraw (drop all classes) and receive a 70% refund
Feb. 5 (Mon.) Last day to withdraw (drop all classes) and receive a 50% refund
Jan. 31 (Wed.) Census Day (last day to drop without it appearing on the transcript)
Feb. 12 (Mon.) Last day to withdraw (drop all classes) and receive a 25% refund
Mar. 12 – Mar. 17 (Mon. – Sat.) Spring Break. No classes
Mar. 30 – Mar. 31 (Fri. – Sat.) Easter Holiday. No classes.
April 12 (Thurs.) Last day to drop a class (grade of DR) or withdraw (grade of W)
May 3 (Thurs.) Study Day. No classes.
May 4 – 10 (Fri. – Thurs.) Final Exams

Tentative Course Calendar (Please see the last page.)

Other Course Information

1. There will be no make-up exams given. Students who know they will miss an exam for an excusable reason must inform me before or on the day of the exam through phone or e-mail. If you miss one major exam due to a valid excuse, you may replace that 0 grade with your final exam grade.
2. No late work will be accepted. Exceptions are the following. Documented illness ("documented" refers to University health service, private physician, or Dean of your college). Documented personal tragedy. Documented official University business (by faculty sponsoring the event).
3. Use of unfair means during an examination will be viewed very seriously. A student using such means, shall be dropped from the course with a grade of DF.
4. Late comings and early goings distract the class and are hence discouraged.
5. All cellphones must be kept in *off* mode during the lecture.
6. As a general practice, a student who does not write the final examination gets a DF as his/her final grade.

UTRGV Policy Statements

STUDENTS WITH DISABILITIES:

Students with a documented disability (physical, psychological, learning, or other disability which affects academic performance) who would like to receive academic accommodations should contact Student Accessibility Services (SAS) as soon as possible to schedule an appointment to initiate services. Accommodations can be arranged through SAS at any time, but are not retroactive. Students who suffer a broken bone, severe injury or undergo surgery during the semester are eligible for temporary services. **Brownsville Campus:** Student Accessibility

Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at ability@utrgv.edu. **Edinburg Campus:** Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at ability@utrgv.edu.

MANDATORY COURSE EVALUATION PERIOD:

Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (<http://my.utrgv.edu>); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades. Online evaluations will be available:

Spring 2018 Module 1	February 14 – February 20
Spring 2018 Module 2	April 11 – April 17
Spring 2018 (full semester)	April 11 – May 2

ATTENDANCE:

Students are expected to attend all scheduled classes and may be dropped from the course for excessive absences. UTRGV's attendance policy excuses students from attending class if they are participating in officially sponsored university activities, such as athletics; for observance of religious holy days; or for military service. Students should contact the instructor in advance of the excused absence and arrange to make up missed work or examinations.

SCHOLASTIC INTEGRITY:

As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion

from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism (including self-plagiarism), and collusion; 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. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE:

In accordance with UT System regulations, your instructor is a “Responsible Employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect that is free from sexual misconduct and discrimination.

COURSE DROPS:

According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.

STUDENT SERVICES:

Students who demonstrate financial need have a variety of options when it comes to paying for college costs, such as scholarships, grants, loans and work-study. Students should visit the Students Services Center (U Central) for additional information. U Central is located in BMAIN 1.100 (Brownsville) or ESSBL 1.145 (Edinburg) or can be reached by email (ucentral@utrgv.edu) or telephone: (888) 882-4026. In addition to financial aid, U Central can assist students with registration and admissions.

Students seeking academic help in their studies can use university resources in addition to an instructor’s office hours. University Resources include the Learning Center, Writing Center, Advising Center and Career Center. The centers provide services such as tutoring, writing help, critical thinking, study skills, degree planning, and student employment. Locations are:

- Learning center: BSTUN 2.10 (Brownsville) or ELCTR 100 (Edinburg)
- Writing center: BLIBR 3.206 (Brownsville) or ESTAC 3.119 (Edinburg)
- Advising center: BMAIN 1.400 (Brownsville) or ESWKH 101 (Edinburg)
- Career center: BCRTZ 129 (Brownsville) or ESSBL 2.101 (Edinburg)

MATH 2334 APPLIED STATISTICS FOR HEALTH 9:25 – 10:40 a.m.

Date	Class Work	Date	Class Work	Date	Class Work	Date	Class Work
01/17	Intro and Chapter 1	02/19	Review	03/21	Chapter 6	04/23	Chapter 8
01/22	Chapter 1	02/21	Test 1	03/26	Chapter 6	04/25	Review
01/24	Chapter 1	02/26	Chapter 4	03/28	Review	04/30	Test 3
01/29	Chapter 2	02/28	Chapter 4	04/02	Test 2	05/02	Review
01/31	Chapter 2	03/05	Chapter 5	04/04	Chapter 7	05/03	Study Day
02/05	Chapter 2	03/07	Chapter 5	04/09	Chapter 7		
02/07	Chapter 3	03/12	Spring Break	04/11	Chapter 7	05/04-10	Final Exams
02/12	Chapter 3	03/14	Spring Break	04/16	Chapter 7		
02/14	Chapter 3	03/19	Chapter 6	04/18	Chapter 8		