Course Module
Stephen F. Austin State University
MATH 5350-001 Mathematical Statistics I
Math 206 TR 2:00PM-3:15PM (In-person class attendance requires a mask)
ZOOM: Mtg#: 990 0239 5765, PC: 638420

Instructor
Robert (Bob) Henderson
Department: Mathematics & Statistics; Office: Bush 344
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BA in Math & History – Trinity University, San Antonio, TX (1978)
MS in Mathematical Statistics – Southern Methodist University, Dallas, TX (1980)
PhD in Mathematical Statistics – Southern Methodist University, Dallas, TX (1982)
MBA – University of Delaware, Newark, DE (1988)
Worked in industry for 27 years, 6 years with DuPont as internal consultant for a variety of businesses and staff groups, then 21 years in the semiconductor business, most with a supplier of a key enabling material for semiconductor production, and later with Samsung working primarily with engineers in process control efforts. The entire 27 years included many training delivery, as well as course development activities related to basic statistics, experimental design, and process control systems.

Started at SFA in the Fall of 2009.

Teaching Hours – MWF 11-11:50AM, MW 2:30-3:45PM, TR 2:00-3:15PM, T 6:15-8:45PM
Office Hours – MTWRF 10:00AM – 12:00PM, except teaching times above, and MTW 4:00PM-5:00PM. Send me an e-mail at the E-mail address above, and I will send you back a ZOOM Meeting Number and Passcode.

Course Goals
This course ideally will provide students with the theoretical foundation to support further study of statistics at the graduate level.

Text

Computer Access/Skills
This course is largely theoretical in nature; however, it will be helpful to have access to Microsoft Office programs – Excel, Word, and Powerpoint. Almost all workplaces expect some skills in working with these packages, and use them for reporting and/or presentation purposes. In addition, some familiarity with SAS and/or R might be helpful, but is certainly not necessary or required.

Prerequisites
MTH 439 or equivalent

Course Syllabus
The official course syllabus can be found at:
http://www2.sfasu.edu/math/docs/syllabi/MTH502Syllabus.pdf
This document summarizes the basic content of the course and further describes the primary learning objectives of the course. It is likely that the percentages given here will not be entirely accurate.
Course Overview

Weeks 1-2: Probability and Distributions
Weeks 3-4: Multivariate Distributions
Weeks 5-6: Some Special Distributions
Week 7: Mid-Term
Weeks 8-9: Elementary Statistical Inferences
Weeks 10-11: Consistency and Limiting Distributions
Weeks 12-13: Maximum Likelihood Methods
Week 14: Final

Grading
Grades will be determined by the following:
Assignments 50%
Mid-Term 25%
Final 25%

About Assignments
Assignments will generally consist of homework problems from the text, and will need to be e-mailed to me at hendersork@sfasu.edu. I will not accept hard copy homework, nor late homework. It is not necessarily a given that all problems originally assigned will be scored. It is likely that students will be asked to work out some assigned problems in class, and these presentations will be evaluated for clarity of communication, as well as their content.

Attendance
This is a graduate level class, and I do not expect attendance issues. Since the class will cover a large amount of material very quickly, missing a class is not desirable. If you know you are going to have to miss a specific class, there is an assignment due for that period, and I have indicated that it will be collected, then to get credit for it, please bring it by my office prior to the class.

Academic Integrity
It is the responsibility of the student to abstain from cheating. Dishonesty of any kind with respect to examinations, written assignments [completed] in or out of class, alteration of records, or illegal possession of current examinations or keys to examinations shall be considered cheating. Courtesy and honesty require that any ideas or materials borrowed from another must be fully acknowledged. Offering the work of another as one’s own is plagiarism. The subject matter of ideas thus taken from another may range from a few sentences or paragraphs to entire articles copied from books, periodicals, or the writing of other students. The offering of materials assembled or collected by others in the form of projects or collections without acknowledgment is also considered plagiarism. Any student who fails to give credit for ideas or materials taken from another is guilty of plagiarism.

Definition of Academic Dishonesty

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of
plagiarism are (1) submitting an assignment as if it were one’s own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit. (from SFA on-line Student Handbook)

A full description of university procedures and penalties in response to cheating and plagiarism can be found in the on-line Student Handbook in the Academic Integrity section at http://www.sfasu.edu/policies/academic_integrity.asp.

All of the above is the official policy of the school; however, the ultimate defender of academic integrity is each individual student. In this class, it might be helpful to work in small groups on the problems. Sharing ideas and helping each other with approaches to understand and solve the problems is not considered cheating or plagiarism. Copying someone else’s homework results 10 minutes before class is considered to be cheating (be warned that these situations are generally easy to identify, and both parties will be subject to the respective penalties). You are encouraged to discuss the problems with others outside the classroom, but are all considered adults, and until you provide evidence to the contrary, will be relied upon to set appropriate boundaries in how you work with others through the duration of this class.

**Withheld Grades**
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

**Students with Disabilities**
In accordance with University policy, students with disabilities who need accommodations are expected to initiate a meeting with the professor immediately upon registering with Disability Services to discuss how accommodations included on the Special Accommodation Request form will be provided. Students with disabilities who may have special needs and have not requested support services should seek assistance through Disability Services. The Office of Disability Services (ODS) is located in the Human Services Building, room 325, and can be contacted by phone at 468-3004 / 468-1004 (TDD). Failure to request services in a timely manner may delay appropriate accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

**Acceptable Student Behavior**
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.