Course description

STAT 641 is intended for statistics graduate students who are planning careers in applied statistics. The course will provide an introduction to data analysis and a wide variety of statistical inference techniques. There will be a demonstration of the interplay between probability models and statistical inference. For more details see the separate course outline handout.

Prerequisite: STAT 610 or STAT 630, or concurrent enrollment in STAT 610 or STAT 630.

Instructor of record

Dr. Uschi Müller-Harknett  www.stat.tamu.edu/~uschi
Office: BLOC 458E;  Tel.: (979) 862-2049;  Mail: uschi@stat.tamu.edu

Grader

Yunfeng Zhang  Mail: yfzhang@stat.tamu.edu

Resources

Your main resources for this course will be:
• video lectures by Dr. Michael Longnecker;
• Dr. Longnecker's accompanying handouts;
• the course discussion board on eCampus;
• online Q&A sessions with Dr. Müller-Harknett, held Wednesdays from 6:00-7:00 p.m. Central Time;
• R and SAS (two statistical software packages);
• the book Statistics and Data Analysis from Elementary to Intermediate by Ajit C. Tamhane and Dorothy Dunlop (published by Prentice Hall).

You should spend time at the start of the semester getting to know the course eCampus page. There you will find essential information and materials, including lectures, handouts, discussion board, instructions for obtaining and installing the software packages, a list of additional resources, and some links.

You will be expected to view three lectures each week. Use the other resources as necessary until you are confident that you understand the material covered. Visit the discussion board regularly, complete the reading and homework assignments, and monitor the course announcements on eCampus.

Course grade

Your course grade is based on your performance over the semester: homework assignments count for 15%, the two midterm exams for 25% each and the final exam for the remaining 35%. Your final letter grade will be determined as follows:
• an overall score of 85% and above guarantees an A grade;
• a score between 70% and 84% guarantees a B grade;
• a score between 60% and 69% guarantees a C grade.

This is the only method that will be used to determine grades. If you feel that personal circumstances are affecting your academic performance, or are concerned that your work is not going to earn you the grade that you require for some purpose, please explore your options and take appropriate action in good time.
Exam dates

First midterm: Thursday, March 3 starting at 1:00 pm CST
Second midterm: Thursday, April 7 starting at 1:00 pm CDT
Final: Thursday, May 5 starting at 1:00 pm CDT

Homework policy: Assignments and due dates will be posted on eCampus. Solutions should be submitted via WebAssign. Selected assignments will be graded. Solutions must be in a single PDF file. You should be identified on the first page with your printed name, email address, and course number. Your solutions must be your own work, consistent with the university rules on academic integrity.

You may make use of:
• your textbook, handouts and notes;
• references listed on the syllabus;
• discussions with the instructor, grader and other students currently taking the class.

You may not:
• use solutions manuals (printed or digital);
• use solutions, notes, homework, etc., from classes taught elsewhere or at another time;
• copy from other students or expect them to reveal their solutions.

Exam policy

Distance students must be proctored, and it is your responsibility to arrange this. Instructions will be provided in good time.

Exam questions will be downloaded from WebAssign. Solutions must be scanned into a single PDF file and uploaded to WebAssign. You should be identified on the first page with your typed name and course number. Your solutions must be your own work, consistent with the university rules on academic integrity.

Each exam will be comprehensive, cumulative and closed book. You will be allowed to use a self generated formula sheet. You may use a calculator but it cannot have capability to phone, text, or access the internet.

As a part of your solutions to problems you should show all your work. This does not mean showing every individual algebraic or calculus step, but it must be clear what those steps are. Your written submission should clearly identify the solutions to all the problems.

Copies of past exams will be available for you to review in eCampus.

Makeup policy: If you have to miss an exam because of illness or other circumstances beyond your control, please notify me before the exam, if feasible, or as soon as possible afterwards to schedule a make-up exam.

A temporary grade of I (incomplete) will only be given if, at the end of a semester, a student has completed the course with the exception of a midterm or final exam, and that deficiency is due to an authorized absence or other cause beyond the control of the student.

Copyright: The resources prepared by Dr. Longnecker for this course are copyright and may not be copied or distributed without his express, written permission.

The Americans with Disabilities Act (ADA) requires that reasonable accommodation be made for students with disabilities. Please contact Disability Services at disability.tamu.edu for more information.

Academic integrity and fairness: I aim to treat you fairly. I expect you to treat me and your fellow students fairly. I take academic honesty seriously, and expect you to do so as well. You should be aware of the Honor Council rules and procedures, the Honor Code, and the definitions of “academic misconduct” at aggiehonor.tamu.edu/RulesAndProcedures/HonorSystemRules.aspx.