
Place/Time
MWF 9:40 - 10:30 AM  in  BEH S 114

Instructor:
A. Treibergs, JWB 224, 581-8350.
E-mail: treiberg@math.utah.edu
Web page: http://www.math.utah.edu/~treiberg/M3074.html
Office Hours: 11:45-12:35 MWF (tent.) & by appt.

Prerequisites:
"C" or better in MATH 1220 OR MATH 1250 OR MATH 1270 OR AP Calculus BC score of at least 4

Texts:
ISBN-10: 0-538-73352-7


Grading
Lab:
Students will meet in the computer lab once a week for two hours. Students must pass the lab to pass the course. Most students manage to easily complete the lab assignments during the lab. Or students may access the computer at other times from the Mathematics Center.

Homework:
You will be asked to write up and hand in homework problems weekly.

Midterms:
There will be three full hour midterm exams on Sept. 14, Oct. 19 and Nov. 16. Questions will be modifications of homework problems.

Quizzes:
There will be four 15 minute quizzes on Aug. 31, Sept. 28, Nov. 2 and Nov. 30. For the quizzes you will be responsible for the material covered from the day of the previous exam through the class meeting preceding the quiz. No makeup quizzes will be given for any reason.

Final Exam:
Mon., Dec. 12, 8:00 - 10:00 AM  in BEH 114. Half of the final will be devoted to material covered after the third midterm exam. The other half will be comprehensive. Students must pass the final to pass the course.

Course Grade:
Based on the best two of three midterm scores 30%, best three of four quizzes 15%, final 25%, homework 20% plus lab 10%.

Tutoring Center:
Free tutoring is available in the T. Benny Rushing Mathematics Center, located between LCB and JWB. Normal hours M-Th 8:00 am - 8:00 pm, Fri 8:00 am-4:00 pm.

Withdrawals:
Last day to drop a class is Aug. 31. Until Oct. 21 you can withdraw from the class with no approval at all. After that date you must petition your dean's office to be allowed to withdraw.

ADA:
The Americans with Disability Act requires that reasonable accommodations be provided for students with cognitive, systemic, learning and psychiatric disabilities. Please contact me at the beginning of the quarter to discuss any such accommodations you may require for this course.

Course Content:
This is the first course in a sequence of two that offers a comprehensive introduction to the concepts of probability and statistics. We begin by quickly presenting some ways to organize and present data used in descriptive statistics (Ch. 1.) How well the population can be described from estimates made from samples drawn from that population depends on notions from probability. We consider laws of probability, random variables (one- and two-dimensional), common distributions, sample statistics and the Central limit Theorem (Ch. 2-5.) Finally we develop the basic techniques of inferential statistics, point estimates, confidence intervals and hypothesis testing (Ch. 6-9.) Both the theory behind statistical decision making and its practical application to many different areas will be examined in this course, so that students may appreciate the use of statistics in their professional and personal lives. The course material will be based on Chapters 1-9 of the text and corresponding material from the Lab manual.