Syllabus for MATH 3080, Section 1
Applied Statistics II
Spring 2015

Lecture: M,W, 10:45–11:35AM, AEB 350

Instructor: Greg Rice

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Web Page: http://math.utah.edu/~rice/Math_3080
Office Hours: T, 10:30AM-11:30AM, Or by appointment.

Prerequisites: “C” or better in MATH 3070. Roughly you should know introductory statistics and probability theory using calculus.


Note on Older Editions: I expect that the material in older versions of the text book will be roughly identical to that of the most recent version (the 8th one). However, what text book authors like to do is reorder/revamp the exercises from one edition to the next. Since I will be assigning some homework out of the book this would be the biggest issue with buying an old text. Therefore, you can buy older editions of the text if you wish, however you should have access to the 8th edition to do your homework assignments.

Calculator: Students will need a scientific or graphing calculator for this course.

Withdrawals: The last day to withdraw from this course is Friday, March 6th.

ADA Statement: The University of Utah Mathematics Department seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the instructor and to the Center for Disability Services, 162 Olpin Union Bldg, 581-5020 (V/TDD) to make arrangements for accommodations. This information is available in an alternative format with prior notification.

Academic Dishonesty: Cheating in any form will not be tolerated and may result in a failing grade for the relevant assignment or exam and/or a failing grade for the course. The guidelines in
the Student Handbook will be followed.

**Attendance:** Regular attendance is highly encouraged, but is not required. In general, students who do not attend lecture tend to struggle, so be careful!

**Rough Course Outline:** This course is meant to cover (kind of) advanced statistical procedures including two sample tests, analysis of variance, linear models, and non-parametric statistics.

**Homework**  Homework will be assigned regularly during lectures. Typically you will have between one week or two weeks to complete homework assignments, and they are due by 5 pm in my box on the due date. Late homework will not be accepted, but instead I will drop your lowest homework score.

**Lab:** There is a required computer lab for this course where you will be learning how to use R, a programming language which is primarily used for statistics. The lab meets for two hours each week, during which you will work through statistical exercises using R. Diligent workers typically finish the exercises during the allotted time, and therefore do not have to take programming work home. If you do not pass the lab section according to the syllabus of the lab instructor, you will not pass the course (i.e. you will receive a final grade of an E or an incomplete).

**Midterm Exams:** There will be two midterm exams. They are scheduled for Wednesday, February 25th and Wednesday, April 8th. Make–up midterms will only be administered to students who have notified me of a conflict by Friday, January 30th or under extreme circumstances.

**Group Project:** A large part of your performance in the course will be evaluated by means of a group project. The projects will be explained in detail later in the course. The projects will include a thorough write-up and a slide show presentation. Presentations will last 30 minutes and will be given during the final exam period.

**Grades:** Your grade will be determined as follows;

Homework: 20 %  Lab: 15%  Two Midterm Exams: 40%  Group Project: 25%

A:$\geq 90\%$  B:$\geq 80\%$  C:$\geq 70\%$  D,F otherwise; I might give out pluses and minuses...