ST 590 - Data Collection and Study Reproducibility - Fall 2016
Monday-Wednesday, 10:15-11:30, 5270 SAS Hall

Instructor

Dennis D. Boos
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Office Hours: Wednesdays, 11:30-12:30 (but feel free to drop in or call when convenient)

Description

The first half of this course covers the usual first topics in a finite population sampling course (e.g., ST 715): simple random sampling, stratified sampling, cluster sampling, and ratio and regression estimators. In addition, types of studies and data collection methods will be discussed. The second half of the course is a hot topic everywhere in science---Why do so many published studies fail to replicate when repeated under similar conditions? The answer is that there are many reasons such as confounding in observational studies, multiple modeling (trying many models) and multiple testing, variation due to differences in data analysts, and adjusting and calibrating P-values.

Grader

Jiapeng Zhu
email: jzhu19@ncsu.edu
Office Hours: Tuesdays and Thursdays, 1:00 - 3:00 pm, 1101 SAS Hall

Text

The text for the first half of the course is

*Sampling: Design and Analysis*, second edition, 2010, Sharon Lohr

We will be using the following parts: Ch 2: 25-48, Ch. 3:73-91, Ch. 4:117-143, Ch. 5:165-199

I have this on e-reserve in the library. Or you can go to the publisher Cengage or Amazon and rent the book or buy certain parts.

For the second half of the course, we will be using handouts and journal articles.

Grading

Plus/minus grading will be used. The course grade will be based on homework assignments, the midtm exam, a project, and class participation. The relative weight given to each of these components is

Homework 20%
Project 1 20% Monday, October 24
Project 2 20% Last Week of Classes
Midterm Exam 40% Wednesday, October 5, 10:15 - 11:40 a.m.

I value class participation: attendance and willingness to ask and answer questions in class. It will be used in deciding borderline grades.

Miscellaneous

1. Homework will be assigned approximately every two weeks. It will be due at the beginning of class. As a rule, I do not accept late homework. I allow students to work in groups on homework if they like, but no one should copy directly from someone else's paper (either present or past students). I strongly urge everyone to work on their own as much as possible.

2. The midterm exam will be an in-class, closed book exam. You may use one side of an 8.5 by 11 sheet of paper with hand-written notes during the exam. You will be provided with scratch paper. No cell phones or other electronic devices should be in sight or used in any way.

3. If you would like to audit the course, I require at least a 50% grade on homework to get an official audit. (After many years of teaching and sitting in on courses myself, I believe it is usually a waste of time to sit in a course without doing the homework.)

4. I will regularly ask for feedback on how the class is going. Please help me with your suggestions.

5. Academic Integrity: It is the understanding and expectation that a student's signature on any test or assignment means that the student neither gave nor received unauthorized aid. Consult the following website for further details on the code of student conduct: http://policies.ncsu.edu/policy/pol-11-35-01

For students with disabilities:

Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with Disability Services for Students at 1900 Student Health Center, Campus Box 7509, 515-7653.

https://dso.dasa.ncsu.edu/

For more information on NC State's policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation

http://policies.ncsu.edu/regulation/reg-02-20-01

Evaluations of course and instructor:

Online class evaluations will be available for students to complete during the last two weeks of class. Students will receive an email message directing them to a website where they can login using their Unity ID and complete evaluations. All evaluations are confidential; instructors will never know how any one student responded to any question, and students will never know the ratings for any particular instructors.

Evaluation website
More information about ClassEval

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