ST 520: Statistical Principles of Clinical Trials and Epidemiology

Fall, 2014

Textbook
None. Lecture notes and slides are available for download from the class website www4.stat.ncsu.edu/~dzhang/st520/index.html

Reference
2. Group Sequential Methods with Applications to Clinical Trials by C. Jennision & B.W. Turnbull

Class Hours
Tuesday & Thursday, 11:45 am - 1:00 pm

Location
Room 1108 SAS Hall

Instructor
Dr. Daowen Zhang
5122 SAS Hall
Tel: 515-1933
Email: zhang@stat.ncsu.edu

Office Hours
3:00pm-4:00pm Tuesday, Thursday or by appointment

Teaching Assistant
Shuhan Liang
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TA Office Hours
4:30-5:30pm Monday (Room 1101, SAS Hall)

Evaluation
Homework: 20%  
Mid-term (in class, open book & open notes): 35%. It will be given sometime (11:40am-1:25pm on 10/7/14?) before the fall break (10/9/14-10/10/14).  
Final (in class, open book & open notes, comprehensive): 45%. Location: 1108 SAS Hall; Time: 8:00-11:00 am, 12/11/2014, Thursday

Course description
This course will introduce some basic statistical concepts and methods used in Epidemiology and will focus on the statistical principles and methods used in clinical trials, including phase I to IV clinical trials. Although the class will have emphasis on phase III trials, we will also discuss the feature and statistical issues in phase I and II clinical trials. For phase III trials, we will discuss ways of treatment allocation that will ensure valid inference on treatment comparison. Other topics include sample size calculation, survival analysis and early stopping of a clinical trial and noncompliance.
Disability Reg. 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. For more information on NC State’s policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation (REG02.20.01)

Online evaluation Online class evaluations will be available for students to complete during the last two weeks of class. The website is https://classeval.ncsu.edu. Any comments and suggestion on this course are greatly appreciated.