

# ST 520: Statistical Principles of Clinical Trials and Epidemiology

Fall, 2008

Textbook	None. Lecture notes and slides are available for download from the class website <a href="http://www4.stat.ncsu.edu/~dzhang2/st520/index.html">www4.stat.ncsu.edu/~dzhang2/st520/index.html</a>
Reference	<ol style="list-style-type: none"><li><b>Fundamentals of Clinical Trials</b> by L.M. Friedman, C.D. Furberg and D.L. DeMets</li><li><b>Group Sequential Methods with Applications to Clinical Trials</b> by C. Jennison &amp; B.W. Turnbull</li></ol>
Class Hours	Tuesday & Thursday, 8:30 - 9:45 am
Location	Room 451, Riddick Hall
Instructor	Dr. Daowen Zhang 203B Patterson Tel: 515-1933 Email: <a href="mailto:zhang@stat.ncsu.edu">zhang@stat.ncsu.edu</a>
Office Hours	10:00-11:30am Tuesday, Thursday or by appointment
Teaching Assistant	Dong Wang Email: <a href="mailto:dwang4@ncsu.edu">dwang4@ncsu.edu</a>
TA Office Hours	110 BOM, 9:00-10:00am Friday
Evaluation	Homework: 20% Mid-term (in class, open book & open notes): 35%. It will be given sometime before the fall break. Final (in class, open book & open notes, comprehensive): 45%. Tuesday, 12/9/08, 8:00-11:00am
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.
Online evaluation	Online class evaluations will be available for students to complete during the last two weeks of class. The website is <a href="https://classeval.ncsu.edu">https://classeval.ncsu.edu</a> . Any comments and suggestion on this course are greatly appreciated.