Syllabus

ST 501 -- Fundamentals of Inference I -- Summer 2015

First of a two-semester sequence in probability and statistics taught at a calculus-based level. Probability, discrete and continuous distributions, expected values, transformations of random variables, sampling distributions.

When & where: Monday, Tuesday, Wednesday, Thursday, Friday --- 11:40 am - 1:10 pm --- in SAS Hall, Room 1108

Prerequisites: MA 242 (Calc III) or equivalent

Textbook: Mathematical Statistics and Data Analysis - John A. Rice (third edition)

Letter grades will be assigned. I expect students to attend class, but I will not take attendance.

Quizzes and Final Exam will be closed book, no notes.

Approximate Schedule of Topics

Week 1: Set Theory, probability of events, counting techniques, conditional probability, independent events

Week 2: Random Variables, discrete/continuous, densities, distribution function

Week 3: Joint distributions, functions/transformations, independent RV’s

Week 4: Expectation, moments, correlation

Week 5: Asymptotics, Sampling from the Normal Distribution

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Course Site: http://www.stat.ncsu.edu/people/monahan/courses/st501
Accommodations for Disabilities

Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, student must register with the Disability Services Office (http://www.ncsu.edu/dso), 919-515-7653. For more information on NC State's policy on working with students with disabilities, please see the Academic Accommodations for Students with Disabilities Regulation at http://policies.ncsu.edu/regulation/reg-02-20-01.

Academic Integrity

Students are required to comply with the university policy on academic integrity found in the Code of Student Conduct found at http://policies.ncsu.edu/policy/pol-11-35-01

Academic Honesty

See http://policies.ncsu.edu/policy/pol-11-35-01 for a detailed explanation of academic honesty.

Honor Pledge

Your signature on any test or assignment indicates "I have neither given nor received unauthorized aid on this test or assignment."