ST515: Experimental Statistics for Engineers I (3 units)
Fall 2016

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Class Time: TuTh 8:30am-9:45am

Office Hours (AMS): Tuesday 10:00am-12:00pm
Office Hours (AH): 2:30-4:00PM Monday and 1:15-2:45PM Wednesday 1101 SAS Hall

Website: All materials are on Moodle (https://wolfware.ncsu.edu)

Prerequisites: ST361 Introduction to Statistics for Engineers or graduate standing

Course Description: This course covers important concepts in probability and basic methods in statistical for graduate students in engineering. In probability, we will cover the concepts of sample space, probability, conditional probability, discrete and continuous random variables and distributions, expectation (including mean and variance), moment-generating function. In statistics, we will cover the concept of statistical inference, including sampling distribution, estimation methods, hypothesis testing, linear regression and analysis of variance. This course will provide the students basic knowledge of probability and statistics necessary for subsequent ST516 and other more advanced statistics courses.


Exams:
Midterm 1, September 22nd in class
Midterm 2, November 3rd in class
Final Tuesday December 13th 8:00am-11:00am in class.

Grading: Letter grades will be given based upon performance.
97 - 100 A+  93 - 96 A  90 - 92 A-
87 - 89 B+  83 - 86 B  80 - 82 B-
77 - 79 C+  73 - 76 C  70 - 72 C-
67 - 69 D+  63 - 66 D  60 - 62 D-

Homework 20%  
Quizzes 10%  
Midterm Exam 1 20%  
Midterm Exam 2 20%  
Final Exam 30%
Academic Dishonesty: This class will follow North Carolina State University policy on academic integrity. It is my understanding and expectation that the student’s signature on the Pack Pledge (“I have neither given nor received unauthorized aid on this test/assignment”) means that the student contributed to the assignment in question (if a group assignment) and that they neither gave nor received unauthorized aid (if an individual assignment). **Authorized aid on an individual assignment includes discussing the interpretation of the problem statement, sharing ideas or approaches for solving the problem, and explaining concepts involved in the problem.** Any other aid is unauthorized and a violation of the academic integrity policy. All cases of academic misconduct will be submitted to the Office of Student Conduct, and sanctions will be imposed according to NCSU Policy 11.35.1 (http://policies.ncsu.edu/policy/pol-11-35-01). If you are found guilty of academic misconduct, you will receive no credit for the test or assignment on which the violation occurred and will be placed on academic integrity probation.

Late Assignments: Late assignments will be accepted only through prior arrangements with Dr. Staicu. I have a strong preference for at least a 24-hour notice of your desire to turn in an assignment late.

Attendance: Attendance is expected but will not be recorded in this class. Please notify me as soon as possible of any excused absences (defined in http://policies.ncsu.edu/regulation/reg-02-20-03) so that we can make arrangements for you to make up any missed work.

Electronically-Hosted Course Components: Students may be required to disclose personally identifiable information to other students in the course, via electronic tools like email or web-postings, where relevant to the course. Examples include online discussions of class topics, and posting of student coursework. All students are expected to respect the privacy of each other by not sharing or using such information outside the course.

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.

Non-Discrimination Policy: NC State University provides equality of opportunity in education and employment for all students and employees. Accordingly, NC State affirms its commitment to maintain a work environment for all employees and an academic environment for all students that is free from all forms of discrimination. Discrimination based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation is a violation of state and federal law and/or NC State University policy and will not be tolerated. Harassment of any person (either in the form of quid pro quo or creation of a hostile environment) based on race, color, religion, creed, sex, national origin, age, disability, veteran status, or sexual orientation also is a violation of state and federal law and/or NC State University policy and will not be tolerated. Retaliation against any person who complains about discrimination is also prohibited. NC State’s policies and regulations covering discrimination, harassment, and retaliation may be accessed at http://policies.ncsu.edu/policy/pol-04-25-05 or http://www.ncsu.edu/equal_op/. Any person who feels that he or she has been the subject of prohibited discrimination, harassment, or retaliation should contact the Office for Equal Opportunity (OEO) at 919-515-3148.