Course: Statistics 120 – Probability and Random Variables for Engineers

Instructor: George Roussas - <roussas@wald.ucdavis.edu>
TA: Thuan Nguyen - <tnguyen@wald.ucdavis.edu>

Lectures: M-W-F, 1:10-2:00pm, 106 Wellman Hall
Discussion Session: 2:10-3:00pm, 119 Wellman Hall

Office Hours of Instructor: M-W-F, 2:15-3:00pm, 4242 MSB
Office Hours of TA: T-R, 3:10-4:00pm, 1117 MSB

Textbook: An Introduction to Probability and Statistical Inference
By George Roussas, Academic Press, 2003

The following is a brief description of the material of STA 120, the way it appears in the General Catalog:

Basic concepts of probability theory with applications to electrical engineering, discrete and continuous random variables, conditional probability, combinatorics, bivariate distributions, transformation of random variables, law of large numbers, central limit theorem, and approximations.

All this material is found in the textbook, not necessarily in the same order.

In reference to the textbook, the course will endeavor to cover material from Chapter 1 through Chapter 7. the material in Chapters 6 and 7 will be presented selectively.

Prerequisites: Mathematics 21A, 21B, 21C and 22A.
No credit for students who have taken course 131A or Civil and Environmental Engineering 114.

Homework Assigned and Due: Problems will be assigned in each lecture, and they will typically be due on Friday. Necessary adjustments will be made as necessary, for example, for the midterms and for the final exam.
Answers will be posted soon thereafter, so it is imperative that assignments are submitted in a timely manner.

**Course Website:** TBA

**Midterms:**
- First Midterm: Friday April 21
- Second Midterm: Friday May 19

**Final Exam:** Thursday June 15, 10:30am-12:30pm

**Grading Policy:**
- Midterms: 25% each
- Final: 40%
- Homework: 10%

**Other References:**


*Note: Shields Library has been requested to put these references on a 2-hour reserve.*