ECI114: Probabilistic Systems Analysis for Engineers

Instructor: Boris Jeremić, Professor

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Class meeting: M,W 8am-10am, Young 194

Instructor Office Hours: M,W 2pm-4pm, 3147 Ghausi Hall

TA Office Hours:, TBA

Course WWW: http://sokocalo.engr.ucdavis.edu/~jeremic/Classes/ECI114

Topics to be covered:

- Probability

- Discrete and Continuous Random Variables

- Joint Distributions

- Statistics, Distributions

- Estimation

- Confidence Intervals

- Hypothesis Testing

- Statistical Inference for Two Samples

- Regression Analysis

Textbook: Douglas C. Montgomery and George C. Runger, Applied Statistics and Probability for Engineers, 7th ed. New York: John Wiley and Sons, 2006.

Grading: homework 40 pts, midterm exam 20 pts, final exam 40 pts,

Homeworks: Assigned weekly, through course web site.

Computers: Some of the problems in this course will require programming.

Guidelines for homework, mid–term and final exam presentation:

- HW are due before the due date.
- Neatness counts (!).
- Highlight answers by boxing or underscoring, and mark with arrow on margin.
- Show work, just giving the final answers gets no credit.
- If the problem specifies physical units, be sure to identify them in the answers.
- When making plots of your results use straight edge and compass.
- Be sure to write your name and student ID number on HW pages.