

**CALIFORNIA STATE UNIVERSITY, HAYWARD  
DEPARTMENT OF STATISTICS**

**STATISTICS 6401 Advanced Probability I  
Fall 2012**

**Lecture:** Sec. 1 MW 2:00 – 3:50, Sec. 2 6:00-7:50, ScN207

**Instructor:** Prof. Eric A. Suess **Office:** ScN 229 **Phone:** 885-3879 **e-mail:** [eric.suess@csueastbay.edu](mailto:eric.suess@csueastbay.edu)

**Office Hours:** MW 1:00-2:00, 5:00-6:00 or by appointment

**Class Website:** <http://www.sci.csueastbay.edu/~esuess/>

**Required Texts:**

- Rice: Mathematical Statistics and Data Analysis, 3<sup>rd</sup> Edition, Duxbury 1995.

**Recommended Texts:**

- Ross, A First Course in Probability, 8<sup>th</sup> Edition.
- Feller, An Introduction to Probability Theory and Its Applications, Vol. 1, 3<sup>rd</sup>. Edition.
- Ewens and Grant, Statistical Methods in Bioinformatics, An Introduction.
- Carne, Telecommunications Topics: Applications of Functions & Probabilities in Electrical Communications.
- Carne, Telecommunications Primer: Data, Voice and Video Communications.

**Material To Be Covered:**

- In this course we will cover the probability topics needed to study mathematical statistics.
- There will be use of R and other software to compute and demonstrate various computational and simulation topics in the course.

**Prerequisites:**

- Calculus, Probability.

**Homework:** Assignments will be given each week and the weeks work will be due the following Monday.

**Computer Project:** TBA

**Exams:** Two midterms will be given during the quarter (end of fourth and end of seventh week), and the final will be given at the end. You are expected to bring your Student I.D. for identification.

**Grading:** Homework 10%, Midterm I 25%, Midterm II 25% Projects 15%, Final 25%

## **UNIVERSITY POLICIES FOR INCLUSION ON SYLLABI**

### **Emergency Information**

California State University, East Bay is committed to being a safe and caring community. Your appropriate response in the event of an emergency can help save lives. Information on what to do in an emergency situation (earthquake, electrical outage, fire, extreme heat, severe storm, hazardous materials, terrorist attack) may be found at:

[http://www.aba.csueastbay.edu/EHS/emergency\\_mgmt.htm](http://www.aba.csueastbay.edu/EHS/emergency_mgmt.htm)

Please be familiar with these procedures. Information on this page is updated as required. Please review the information on a regular basis.

### **Policy on Academic Dishonesty:**

The University has a published policy on cheating and academic dishonesty. Students are expected to be familiar with the policy and to abide by it. Cheating will result in: 1) a zero score on the test and the loss of all grading options; and/or 2) an "F" grade for the course; and/or 3) referral to the Academic Vice President for expulsion from the University.

### **Accommodations for Students with Disabilities:**

If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please contact me as soon as possible. Students with disabilities needing accommodation should either speak with me or SDRC.