

ECE 313: Probability with Engineering Applications. Fall 1999

Section	Meeting Time and Place	Instructor
B	9 MWF 165 Everitt Lab	Professor Muriel Médard 128 C&SRL Bldg 244-5961 326B Everitt Lab 333-0387 E-mail: medard@comm.csl.uiuc.edu Office Hours: Tuesdays 2:00 p.m. – 4:00 p.m. in 128 C&SRL and at other times by appointment.
D	11 MWF 269 Everitt Lab	Professor Dilip Sarwate 109 C&SRL Bldg 333-7473 326B Everitt Lab 333-0387 E-mail: sarwate@comm.csl.uiuc.edu Office Hours: Mondays 1:30 p.m. – 3:30 p.m. in 326B Everitt and at other times by appointment.

Sections B and D will cover the same material in the same order at the same pace, and will have common homework and common (evening) exams. Both instructors welcome students from the other section to sit in on their lectures and to consult with them during their office hours or at other times.

Section E (1 – 2:20 MW), which is especially recommended for Computer Engineering majors, will cover the material in different order and will have separate homework and exams. The information below does not apply to Section E.

Prerequisite: ECE 210
A good understanding of the fundamentals of differential and integral calculus, functions of several variables, multiple integrals, etc. is assumed. On the other hand, we will not need stuff like vector calculus, gradients, Green's theorem etc.

Teaching Assistant: Zukui Song 321 Everitt Lab 333-4208
E-mail: zsong@uiuc.edu

Office Hours: Tuesdays, 7:00 p.m. – 9:00 p.m. in 330M Everitt Lab

Textbook: S. Ross, *A First Course in Probability* (Fifth edition), Prentice-Hall, 1997.

Optional Reading: D. V. Sarwate, *Probability with Engineering Applications*,
Lecture Notes for ECE 313, Fall 1997. (Available on the class home page)

Books on reserve in Grainger Engineering Library:

C. Ash, *A Probability Tutoring Book*, IEEE Press, 1992.

A. W. Drake, *Fundamentals of Applied Probability*, McGraw-Hill 1967.

H. P. Hsu, *Probability, Random Variables & Random Processes*, McGraw-Hill 1997.

S. Ross, *Introduction to Probability and Statistics for Engineers and Scientists*, Wiley 1987.

R. E. Walpole and R. H. Myers, *Probability and Statistics for Engineers and Scientists*, (Sixth edition) Prentice-Hall 1999.

R. D. Yates and D. J. Goodman, *Probability and Stochastic Processes*, Wiley, 1999.

Reference Material: (Ask at the REFERENCE desk, not the Reserve Desk, of Grainger for this book)

M. Abramowitz and I. A. Stegun, *Handbook of Mathematical Functions*,
National Bureau of Standards, 1964; also Dover Press, 1965.

Communications: All students who advance enrolled in ECE 313 (MWF sections) have been added to the ECE 313 automated mailing list, and should have received a welcoming message. Students who registered more recently should subscribe to the mailing list by sending an e-mail message to

majordomo@csl.uiuc.edu

with the single line

subscribe ece313

or

subscribe ece313 yourname@your_preferred_e-mail_address

in the **body** (not the subject line) of the message.

ECE 313: Probability with Engineering Applications. Fall 1999

The moderated WebBoard

<http://webboard.scale.uiuc.edu:8080/~83>

and the unmoderated newsgroup

uiuc.class.ece313

are available for class-related discussions. Class information will be posted in both places from time to time. However, news-servers delete postings after a few days, so these items may disappear after a few days. A more permanent source of information is the home page for ECE 313 Sections B and D at

<http://www.ece.uiuc.edu/~ece313/fall199MWF>

which has, for example, a copy of this information sheet for the convenience of those who mislay such items. More generic information about ECE 313 is available at

<http://www.ece.uiuc.edu/~ece313/>

from where you can follow links to the home pages for ECE 313 offerings during previous semesters.

E-mail addressed to the instructors or TA (rather than telephone calls) should be used for simple specific questions on classwork or homework, as well as for setting up appointments outside office hours, etc. If the answer to your question might be of general interest to the class as well, post it to the WebBoard also, and it will be answered there. Note that the instructors and TA do not read the newsgroup on a regular basis, but do monitor the WebBoard.

Homework: Homework will be assigned on **Wednesdays**, and will be due in class on **Wednesday** of the following week at the **beginning of the class period**. Homework turned in late will not be accepted for academic credit. Solutions to the homework will be distributed in class on Fridays. Problem Sets and Solutions will also be posted to the class home page, usually a day before printed copies are distributed in class. If you prefer to get these documents off the home page, please let us know so that we can adjust the number of print copies accordingly, and save a few trees.

Examinations: Hour Exam I Monday October 11 7:00 p.m. – 8:00 p.m. 213 Gregory Hall
Hour Exam II Monday November 15 7:00 p.m. – 8:00 p.m. 213 Gregory Hall

One $8\frac{1}{2}'' \times 11''$ sheet of notes is permitted (you may use both sides); but the examinations are closed book otherwise. Calculators, laptop computers, tables of integrals, etc. are neither necessary nor permitted.

The University requires that regular class meetings be cancelled to compensate for evening hour exams. Therefore, there will be **no class on Wednesday September 22 and Friday September 24**.

Final Examination: The date, time and place of the Final Examination will be announced later. **Two $8\frac{1}{2}'' \times 11''$ sheets of notes are permitted on the final examination (you may use both sides); but the examination is closed book otherwise.** Calculators, laptop computers, tables of integrals, etc. are neither necessary nor permitted.

Grades: Scores on homework and examinations will be weighted as shown below in determining your grade in this course.

15% Homework
20% Each Hour Examination
45% Final Examination

The lowest homework score will be dropped in computing your average homework score. For more information on the grading scheme, visit the class home page.

You can check your class standing via the Campus Gradebook. Gradebook clients are installed on most CCSO PCs and Macintoshes. Visit

<http://www.uiuc.edu/ccso/gradebook>

for more information about the Campus Gradebook or to download a Gradebook client application to your personal PC or Macintosh computer. A recent enhancement allows students to use Web browsers capable of secure communication to view their Gradebook information (subject to some delay and some loss of functionality.) More information can be found at

<https://lyceum.cso.uiuc.edu/SWA>