ECE 313: Probability with Engineering Applications. Fall 1997

Class meeting times:
9   MWF   269 Everitt Lab
11  MWF   161 Everitt Lab

Prerequisite:
ECE 210 (or ECE 309)
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.

Instructor:
Professor Dilip V. Sarwate  109 C&SRL Bldg  333-7473
326B Everitt Lab  333-0387
Electronic mail: sarwate@uiuc.edu

Office Hours:
Tuesdays 1:30 pm – 4:30 pm in 326B Everitt Lab
At other times, I am usually in my C&SRL office from 8:30 a.m. to 4:00 p.m. and
am usually available to discuss course-related matters without the formality of
making an appointment. However, you might save yourself a walk by first
sending e-mail or by calling me at 333–7473 to make sure that I will not be busy
with other matters when you plan on coming over.

Teaching Assistants:
Weishi Feng    e-mail address: wsfeng@manna.csl.uiuc.edu
J. Sreedhar   e-mail address: j-sree@uiuc.edu

Office Hours:
Tuesdays 1:00 pm – 5:00 pm in 330M Everitt Lab
Not available at other times except for e-mail consultations.

Textbook:

Books on reserve in Grainger Engineering Library:
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

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*,

Communication: All students who advance enrolled in ECE 313 have been added to the ECE 313
automated mailing list. 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 me@preferred_e-mail_address
in the body (not the subject line) of the message. The first form will cause majordomo to send e-mail to
the machine you are currently using, while the second will override this and send e-mail to wherever you
would most like to read it. The mailing list will be used to inform students of fast-breaking news stories
such as changes in deadlines, corrections or clarifications on homework, etc. You can also request various
useful pieces of information from majordomo. In particular, if you lose this sheet, you can still get all the
information from majordomo. The files currently available from majordomo have the descriptive names
FAQ    exam_dates    homework_info    newsgroup    oprah_problem
calculators grade_book instructors no_class_on syllabus
cheat_sheets grading_scheme makeup_class office_hours text_list
and you can get them by sending e-mail to majordomo@csl.uiuc.edu with commands such as
getcce313 xyz
to get file xyz by e-mail. Multiple get commands can be sent (on separate lines) in the same e-mail
message to majordomo.
The newsgroup *uiuc.class.ece313* is available for class related discussions. Class-related information will be posted there from time to time. In fact, most of the above mentioned files have already been posted to the newsgroup as well. However, news-servers delete postings after a few days, so these may disappear after a few days. Fortunately, they will always be available from majordomo which is also the most reliable source of answers to current administrivia e.g. When and where is the hour exam? Is Chapter 4 included on the exam? Is it true that HW #3 can be handed in on Friday?

A home-page for ECE 313 is under construction. Its URL is [http://tesla.csl.uiuc.edu/~sarwate/](http://tesla.csl.uiuc.edu/~sarwate/)

*E-mail* addressed to the instructor or TAs (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.

**Homework:** Homework will be handed out 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. More information about homework policies can be found in the FAQ and homework_info files available from majordomo.

**Examinations:**  
Hour Exam I  Tuesday October 14  7:00 p.m. – 8:00 p.m. 228 Natural History Building  
Hour Exam II  Monday November 17  7:00 p.m. – 8:00 p.m. 228 Natural History Building  

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.

In order to satisfy University requirements that classes be cancelled to compensate for evening hour exams, ECE 313 will not meet on Fridays October 3 and October 17.

**Final Examination:** The Final Examination will be held on Friday December 19 from 8:00 a.m. to 11:00 a.m. in Room 151 Everitt Laboratory. 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

You can check your class standing via the Campus Gradebook. You will need your Network ID and password. If you are unfamiliar with this program, visit [http://www.uiuc.edu/resources.html](http://www.uiuc.edu/resources.html) for more information.