

ECE302 Probabilistic Methods, Section 1, Fall 2009

Time and Room: Lecture meets MWF 11:30 AM-12:20 PM in MSEE Grissom 180. This course has a web site at <http://dynamo.ecn.purdue.edu/~gelfand/EE302.html> (you have to type this exactly as shown). All information about this course is on this website, do NOT refer to any university websites including Blackboard for information about this course (only grades will be posted on Blackboard).

Instructor: S.B. Gelfand, MSEE 352, gelfand@ecn.purdue.edu. Office hours: by appointment

Teaching Assistant

- Landis Huffman, MSEE 176, huffmalm@purdue.edu

The TA will hold

- **Office hours:** Monday 12:30-1:30 PM; Tuesday 2:00-3:00 PM; Wednesday 9:30 - 10:30 AM, MSEE 176
- **Help Session:** Thursday 7:00 - 8:00 PM, FRNY B124 (this is also review session the week before an exam; there will not be an additional review session)

Text: A. Leon-Garcia, *Probability Statistics and Random Processes for Electrical Engineering*, Third Edition, Prentice Hall. (Note: Second Edition is not adequate)

Lecture Notes: You should take notes. There will be some overlap with notes in previous semesters, but some new material and examples may be covered in class.

Grading: 2 midterms (25% each), final (40%), homework (10%). You can miss a midterm with prior notification to me by email. It is not necessary for such an absence to be approved, only notification need be sent. If you miss a midterm, the weight will be made up proportionally on the final. For example, if you miss one midterm, then the weighting is 1 midterm (25%), final (65%); homework (10%); if you miss two midterms, then the weighting is final (90%), homework (10%).

Course Procedure: The course website will be frequently updated and notification of the update will be indicated in class. A typical update of the website is a reading and homework assignment or homework solutions.

Exams: The exams will be held as follows

- Midterm 1, Wednesday, October 7, 7:00 -8:00 PM, EE 170
- Midterm 2, Wednesday, December 2, 7:00-8:00 PM, EE 170
- Final, to be scheduled by the university

The two midterms and final exam will be a mix of true false and work-out problems. Some previous exams will be posted on the website. Exams will be closed book - closed notes. Note that the exams cover all material in lecture, reading and homework through the last class period before the exam, and additional information about the exams will generally not be given. Make-up midterm exams with valid excuse are possible but discouraged. Final exam cannot be rescheduled except for a conflict with other final exams (official Purdue rules).

Homework: Homework will be assigned about every two weeks. The homework assignment is to be put in a drop box on the counter of MSEE 330 during regular hours (8:00 – 4:30) by the due date. Solutions will be posted on the website. Homework will be available from MSEE 330 during regular hours approximately 1 - 2 weeks after it is due. If a grader can be located, it will be graded, otherwise it will be checked off. You may collaborate on the homework. Late homework will not be accepted under any circumstances. It can be submitted before the due date in MSEE 330 if necessary

Course Syllabus: A course syllabus will be posted on the course website.

Suggestions: Go over your lecture notes, do the reading, and work through the homework. For homework-related problems please consult the problem solutions and/or see the TA (office hours and help session). The TA is your resource for detailed problem solving and other help in this course. The lectures will mainly cover theory, along with some applications. The reading assignments will be coordinated with the lectures, but may cover additional material not in lecture (and conversely). The exam true-false questions will test basic definitions and concepts, and the exam work-out problems will be similar to the homework problems. The text is a source of additional problems.

Course Policy: We will use Blackboard to keep track of grades, which can be accessed securely by students. Note that only grades will be posted using Blackboard; the course website will contain all other information. Any cheating on examinations will result in immediate failure of the course.