

## Introductory Probability

### Math 340, Spring 2010

**Professor.** Dr. Silvia Fernández

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**Phone.** (818) 677-6445 (email is better)

**Office Hours.** Tuesday and Thursday 3:45-4:45 pm.

**Class meeting time & place.** Tues. and Thurs. 12:30-1:45 pm, CR5119 (CR=Chaparral Hall).

**Topics.** Sample spaces, probability rules, independence, conditional probability, Bayes' Theorem, discrete and continuous random variables and distributions (e.g. binomial, Poisson, geometric, normal, exponential, uniform), expectation, moment generating functions, joint distributions, central limit theorem.

**Textbook.** *Introduction to Probability and its Applications* by R. L. Scheaffer, 2nd edition, 1994. Duxbury Press. ISBN: 0-534-23790-8. We will cover Sections 2.1-2.6, 3.1-3.9, 4.1-4.6, 4.10, 5.1-5.4, 5.6, 5.7, 6.1-6.3, 6.5, and 7.4.

**Prerequisite.** Math 150B.

**Assessment.** Your grade will be based on attendance, homework, two in-class exams, and a final exam.

Attendance. Attendance is considered mandatory; attendance means on time attendance. Repeated absences will affect your grade. Please be aware that under the new course-repeating policy your chances of repeating a class are extremely limited.

Homework and Quizzes. Homework will be assigned regularly. Only random problems, mainly in the form of quizzes, will be graded.

In-class exams. There will be two in-class tests. You will have the entire class period (75 minutes) to work on each test. **Make-up tests** will be given only in case of an emergency. A justification note is necessary. Tentative dates are Tuesday February 16<sup>th</sup> and Thursday March 25<sup>th</sup>.

Final Exam. This exam includes all topics covered during the semester. Thursday May 13<sup>th</sup>, 12:45-2:45 pm in CR5119.

**Grading Scheme.** Your grade will be calculated as follows: The  $\pm$  will be used when assigning final grades. 90% guarantees an A, 80% a B, 70% a C, and 60% a D.

25% Homework and Quizzes  
50% In-class exams (25% each)  
25% Final exam

**Important Notice.** The last date to drop the class is Friday February 5<sup>th</sup>. **No class:** March 2 and 4 (work will be assigned for these days), March 30 and April 1 (furlough days).