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## Math 335 – Mathematical Probability

Fall 2008 - Section 2, MH 442, MW 2:30-3:45 p.m.

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**Instructor:** Mortaza (Mori) Jamshidian, Professor, **Office:** MH 180, **Phone:** 714-278-2398

**Office Hours:** M W 12:00-12:55 p.m., 5:00-5:25 p.m., or *by appointment*

**Homepage:** <http://math.fullerton.edu/mori> **E-mail:** [mori@fullerton.edu](mailto:mori@fullerton.edu)

**Text:** *Probability, statistics, and Stochastic Processes*, by Peter Olofsson, Wiley, 2005.

**Your e-mail address wanted:** You are *required* to fill out the “Student Information Form” ([click here](#)) and submit it to [mori@fullerton.edu](mailto:mori@fullerton.edu) no later than **Tuesday August 26<sup>th</sup>, 5:00 p.m.** Do not save the PDF file and attach to an e-mail. You need to **use the submit button** on the form and follow the instructions. **If you’re unable to submit the form**, send me an e-mail with all the required information on the form. Make sure to include your name and your course “Math 335” in your e-mail. Also, make sure to provide an e-mail address that you check frequently. I will send **quizzes**, various communiqué, and last minute announcements about our class through e-mail. I will send a “test e-mail” to everyone who submits the form. Please check your e-mail **Tuesday August 26<sup>th</sup> after 5:00 p.m.** If you do not receive this test e-mail, please see me on **Wednesday August 27<sup>th</sup>** to resolve any problems there may be. **Note:** Any credits that you lose due to not establishing your e-mail connection with me on time will be your responsibility.

**Course Description:** The course will start with the basic theory of probability, including axioms of probability and its implications and applications, conditional probability, independence, Bayes theorem, and the law of total probability. We then introduce the concept of random variable, expectation and variance. Jointly distributed random variables and related concepts of marginal and conditional distributions, conditional expectation, covariance, and correlation will be discussed. We also introduce the moment generating function, and then go on to limit theorems such as the law of large numbers and the central limit theorem, including proofs. If time allows we will touch upon some topics in simulation and statistical inference.

**Course requirements and Grading Policy:** Homework will be assigned and collected occasionally on the due date, without a previous announcement. About 24 hours before the homework due date, a **quiz, in pdf format, will be e-mailed to you** that will be closely related to the assigned homework problems. You are to **print out the quiz** and answer the questions and **turn the quiz in at the beginning of the next class**. You **must work** on the quiz **individually**. Your weekly homework is usually due on Wednesday of each week (except for exam weeks). You should attempt to solve all the assigned problems by the Monday prior to the due date, and ask any questions that you may have in class or during my office hours. I am an advocate of the recent **CNSM Study 25-35** campaign. **CNSM Study 25-35** represents the need for a full-time student (12 to 15 units) to spend *25 to 35 hours per week* studying to succeed in her/his classes.

The quizzes will account for **20%** of your grade. Two midterm exams (**50%**) and a final exam (**30%**) will be given, portions of which may be take home. You will be allowed to bring in one page of crib-sheet during each midterm exam and two pages of crib-sheet during the final exam. Letter grades will be assigned according to the distribution of the overall grades. Plus-minus grading will be used.

The following is a tentative exam schedule:

<i>Exam I</i>	<i>Exam II</i>	<i>Final Exam</i>
Monday, September 29	Monday November 3	Wednesday, December 17, 2:30-4:20

Make-up exams will be given only in extreme instances and only with advance permission of the instructor. Any student who does not take an exam at the scheduled time without prior consent of the instructor will receive a grade of zero on that exam. If any student feels that a sudden illness is sufficiently extreme to warrant a make-up exam, the instructor must be provided with documentation prepared by an appropriate authority.

**Academic Integrity:** Students who violate university standards of academic integrity are subject to disciplinary sanctions, including failure in the course and suspension from the university. Since dishonesty in any form harms the individual, other students and the university, policies on academic integrity are strictly enforced. I expect that you will familiarize yourself with the academic integrity guidelines found in the current student handbook (see <http://www.fullerton.edu/deanofstudents/judicial/policies.htm>).

Examples of actions that constitute academic dishonesty include, but are not limited to:

1. Unacceptable examination behavior – communicating with fellow students, copying material from another student’s exam or allowing another student to copy from an exam, possessing or using unauthorized materials, or any behavior that defeats the intent of an exam.
2. Plagiarism – taking the work of another and offering it as one’s own without giving credit to that source, whether that material is paraphrased or copied in verbatim or near-verbatim form.
3. Unauthorized collaboration on a project, homework or other assignment.
4. Documentary falsification including forgery, altering of campus documents or records, tampering with grading procedures, fabricating lab assignments, or altering medical excuses.

**Emergency Evacuation:** In the event of an emergency such as earthquake or fire:

- Take all your personal belongings and leave the classroom. Use the stairways located at the east, west, or center of the building.
- Do not use the elevator. They may not be working once the alarm sounds.
- Go to the lawn area towards Nutwood Avenue. Stay with class members for further instruction.
- For additional information on exits, fire alarms and telephones, **Building Evacuation Maps** are located near each elevator.
- Anyone who may have difficulty evacuating the building, please see the instructor.

**Important Dates to Remember:**

- **September 8 (Monday):** Last day for students to ADD with a permit. All permits expire at midnight on September 8.
- **September 8 (Monday):** Last day for students to DROP **without** a grade of “W”. Students drop using New Titan Online.
- **October 3 (Friday):** Last day the Math Department will be flexible on the approval of late withdrawal requests. Beginning Monday, October 6, students must have a serious and compelling reason for withdrawing (e.g. medical reason) and must provide supporting documentation for their reason
- **November 14 (Friday):** Last day to withdraw with a truly serious and compelling reason that is beyond the student’s control. Students must document their reason.