

**MATH 3510-100: Intro to Prob and Stats, Summer 2011**  
**MTWRF 11:00-12:35, ECCR 137**  
**May 31, 2011 - July 1, 2011**

**General Information:**

**Instructor:** Michael D. Roy      **Office:** MATH 216  
**Email:** Michael.D.Roy@colorado.edu      **Office Hours:** By appointment  
**Course Webpage:** <http://euclid.colorado.edu/~roymd/m3510/>

**Prerequisites:** MATH 2001 and 2300 or APPM 1360.

**Text:** Henk Tijms, *Understanding Probability: Chance Rules in Everyday Life*, 2nd. Ed., Cambridge.

**Course Outline:** This course introduces the basic notions of Probability: random variables, expectation, conditioning, and the standard distributions (Binomial, Poisson, Exponential, Normal). This course also covers the Law of Large Numbers and Central Limit Theorem as they apply to statistical questions: sampling from a random distribution, estimation, and hypothesis testing. We will cover parts of chapters 2 and 4–10. You might also wish to review the appendix.

**Homework:** Homework will be assigned daily in class and will also be posted on the webpage on Fridays. Problems from the previous week will be due the following Wednesday. They will account for **20%** of your overall grade. You are welcome and encouraged to collaborate with your peers on the homework, but each student is expected to write up and hand in his or her own solutions.

Solutions to the assigned problems will be posted on the webpage periodically.

**Exams:** There will be two exams (**June 15, July 1**), each **40%** of your overall grade. Both exams will be held at the same time and place as the regular class. You may use a calculator on the exams. The final will focus on the material from the latter half of the course, but may require you to use earlier material.

**Grading:** You will be graded on your written work, which will be judged on the basis of *correctness*, *completeness*, and *legibility*. Your final grade will be determined by the scores of your homework and exams. To combine these items the following weights will be used:

**Homework:** 20%

**Exams:** 40% each

There will be no extra credit assignments.

**Getting Help:** Don't wait until it is too late if you need help. Feel free to ask questions at any time during class, or to schedule an appointment to see me outside of class. I will also answer questions asked via e-mail.

**Accommodations for disabilities:** If you qualify for accommodations because of a disability, please submit a letter to me from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, or <http://www.colorado.edu/disabilityservices>.

**Religious observances:** If you have any course-related conflicts due to religious obligations, please let me know as soon as possible so that accommodations can be made.

**Miscellaneous University Rules and Regulations:**

- **Honor Code:** All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council ([honor@colorado.edu](mailto:honor@colorado.edu); 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Additional information on the Honor Code can be found at  
<http://www.colorado.edu/policies/honor.html>  
<http://www.colorado.edu/academics/honorcode/>
- **Classroom behavior policy:** Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at:  
<http://www.colorado.edu/policies/classbehavior.html>  
<http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#studentcode>
- **Sexual harassment policy:** The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>