MAT 521: Introduction to Probability and Statistics (Fall 2012)
Course Information (MW 3:45-5:05)

Instructor: Professor H. Hyune-Ju Kim   Carnegie 304E
                                           443-1494, 443-1471(message)
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        Office Hours: M 2:30 p.m.-3:30 p.m., T 10 a.m.-11 a.m.

Text: Probability and Statistics, 4th Edition, DeGroot and Schervish

Course Description:

Contents in Chapters 1-6 of DeGroot and Schervish will be covered.

The course will cover basic probability theory, random variables, expectation, limit theorems, and some statistical applications.   Goals of this course would be to understand basic ideas of probability function, to learn properties of random variables, and to understand large sample behaviors of statitsics.

Prerequisite: MAT 397

Calculator: You will need a calculator for the course. No specific calculator is required.

Grading Policy: Homework/Quizzes/Class participation (20 %**)**, Midterm Exams (50 %)**,**
                                       Final Exam (30 %)

Exams: Exam 1 (October 10, Wednesday)
                Exam 2 (November 14, Wednesday)
                Final (December 10, Monday, 3 p.m.-5 p.m.)

Finals will only be given at this time, so do not make plans to leave town before 5 p.m. on Monday, December 10.

In case of unexpected illness and/or emergency that conflicts with the midterm exam schedule, you should inform me before the exam starts at 3:45 p.m. You can send me an e-mail (hjkim@syr.edu) or call me (443-1494) or leave a message at 443-1471.   If you fail to do so, the exam score will be counted as ZERO. For any circumstances, you should provide me with a valid document to justify your absence.

Homework: Attached is a list of assigned homework problems for the course. Unless indicated otherwise, on Monday of each week, you will be expected to turn in the problems assigned from the sections covered during the previous week. Be sure to show your work. You may discuss these problems with other students, but each of you is expected to write up your own solutions independently. Homework turned in late will not be graded. If you are unable to attend class, you may turn in your homework before the corresponding class day to me or to the mathematics office, Carnegie 215.

Attendance: You are expected to attend every class, every in-class-exam, and the final exam. You are responsible for any announcements about changes to the course schedule, the exam schedule, or the course requirements that were made during class.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see http://academic integrity.syr.edu

Students with Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), http://disabilityservices.syr.edu, located in Room 309 of 804 University Avenue, or call (315) 443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations. Making arrangements with ODS takes time. Do not wait until just before the first test.

Learning Goals and Expectations: Students are expected to master the basic notions of probability and to acquire skills necessary for the application of these notions to the future study of probability and/or statistics.

MAT 521 Tentative Schedule

		Monday		Wednesday
August	27	1.1-1.5	29	1.6-1.7
September	3	Labor day	5	1.8-1.9
	10	1.10-2.1	12	2.1-2.2
	17	2.3-3.1	19	3.1-3.2
	24	3.3	26	3.4
October	1	3.5	3	3.5-3.7
	8	Review	10	Test 1
	15	3.8	17	3.8-3.9
	22	4.1-4.2	24	4.3-4.4
	29	4.5-4.6	31	5.1-5.3
November	5	5.4-5.5	7	5.6
	12	Review	14	Test 2
	19	Break	21	Break
	26	5.6-5.10	28	6.1-6.3
December	3	6.3-6.4	5	Review for Final
	Final Exam (December 10, Monday, 3 pm-5 pm)			

HOMEWORk ASSIGNMENTS

SECTION	PROBLEMS
1.4	6, 7
1.5	1, 2, 3, 4, 5, 6, 7, 8
1.6	1, 2, 3, 4, 5, 6, 8
1.7	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
1.8	1, 4, 9, 10, 11, 12, 13, 16, 17, 18
1.9	1, 2, 3, 4, 6, 7, 8, 9, 10
1.10	2, 3, 4, 6, 7, 8, 10, 11
2.1	1, 2, 3, 4, 6, 7, 8, 9
2.2	1, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18
2.3	1, 3, 4, 5, 6, 7, 8
3.1	1, 2, 3, 4, 5, 6, 7, 8
3.2	1, 2, 3, 4, 7, 8
3.3	1, 2, 4, 5, 6, 7, 8
3.4	1, 2, 3, 4, 5, 6, 8
3.5	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
3.6	1, 2, 4, 6, 7, 8
3.7	1, 5, 6, 7
3.8	1, 2, 4, 6, 7, 8
3.9	1, 2, 3, 4, 5, 6, 7
4.1	1, 2, 3, 4, 5, 6, 7, 8, 9
4.2	2, 3, 4, 6, 7
4.3	1, 2, 3, 4, 6, 7
4.4	1, 2, 3, 6, 7, 8, 10, 11, 12
4.5	2, 3, 4, 6, 9, 12
4.6	1, 3, 5, 10, 12, 13, 14
5.2	1, 3, 4, 5, 6, 7
5.3	2, 3, 4, 5
5.4	2, 3, 4, 6, 7, 12, 13, 14
5.6	2, 3, 5, 6, 7, 9, 10, 11, 13, 14
6.2	1, 5, 6, 8
6.3	1, 2, 3, 4, 7, 9
6.4	2, 4, 5