

SYRACUSE UNIVERSITY
MAT 521, INTRODUCTION TO PROBABILITY AND STATISTICS
FALL, 2010 SYLLABUS

Instructor: Prof. D Quinn, 229D Physics building.
443-1484 dpquinn@syr.edu

Office Hours: Monday 11.45am – 12.40pm
Tuesday 10:00am – 11:00am
Wednesday 1:30pm – 2:30pm

Course Description: Algebra of sets. Probability in finite sample spaces. Binomial and multinomial coefficients. Random variables. Expected value and standard deviation. Density functions. Statistical applications.

Text: *Probability and Statistics*, Third Edition, by Morris H. DeGroot and Mark J. Schervish.

Mathematics Requirements: MAT 397.

Grading Grades for the course will be based on the total number of points accumulated on quizzes, two tests and the final examination. The two tests will each count 25%, while the quizzes count 20% and final 30% toward your grade. The dates of the exams are given below. There will be no make-ups exams. If you miss a test for a valid reason, the corresponding portion of the final will be used to make up the missing score. Quizzes will be given approximately once a week, usually on Wednesday. You can miss up to two quizzes. If you take more than the minimum number of quizzes, your lowest score(s) will be dropped.

Exam Dates:	Exam 1	Wednesday, October 13 th
	Exam 2	Wednesday, November 17 th
	Final Exam	Thursday 16 th , 3.00pm-5.00pm

Homework: In order to learn this material it is vital that you do the homework problems. Time will be allotted at the beginning of each class period to discuss the homework assignments. In addition the quizzes and exams will have a very large overlap with homework, although it is also important to have studied the material covered in 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.

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

Disabilities: Students who may need academic accommodations due to a disability are encouraged to discuss their needs with the instructor at the beginning of the semester. In order to obtain authorized accommodations, students should be registered with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498 and have an updated

accommodation letter for the instructor. Accommodations and related support services such as exam administration are not provided retroactively and must be requested in advance. For more information contact the Office of Disability Services.

Office of Disability Services: Office of Disability Services, 804 University Avenue Room 309, Syracuse, New York 13244-2330 (315) 443-4498 TDD: (315) 443-1371

e-mail: odssched@syr.eu

Homework Assignments (Attempt the relevant homework as soon as section is covered in class.)

<i>SECT.</i>	<i>PROBLEMS</i>		
1.4	6, 7	3.7	1, 5, 6, 7
1.5	1, 2, 3, 4, 5, 6, 7, 8	3.8	1, 2, 4, 6, 7, 8
1.6	1, 2, 3, 4, 5, 6, 8	3.9	1, 2, 3, 4, 5, 6, 7
1.7	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	4.1	1, 2, 3, 4, 5, 6, 7, 8, 9
1.8	1, 4, 9, 10, 11, 12, 13, 16, 17, 18	4.2	2, 3, 4, 6, 8, 9
1.9	1, 2, 3, 4, 6, 7, 8, 9, 10	4.3	1, 2, 3, 4, 6, 7
1.10	2, 3, 4, 6, 7, 8, 10, 11	4.4	1, 2, 3, 6, 7, 8, 10, 11, 12
2.1	1, 2, 3, 4, 6, 7, 8, 9	4.5	2, 3, 4, 6, 9, 12
2.2	1, 4, 9, 10, 11, 12, 13, 16, 17, 18	4.6	1, 3, 5, 10, 12, 13, 14
2.3	1, 3, 4, 6, 7, 8, 9	4.8	2, 5, 6, 8
3.1	1, 2, 3, 4, 5, 6, 7, 8	5.2	1, 3, 4, 5, 6, 7
3.2	1, 2, 3, 4, 7, 8	5.3	2, 3, 4, 5
3.3	1, 2, 4, 5, 6, 7, 8	5.3	2, 3, 4, 6, 7, 12, 13, 14
3.4	1, 2, 3, 4, 5, 6, 8	5.6	2, 3, 5, 6, 7, 9, 10, 11, 13, 14
3.5	1, 2, 3, 4, 5, 6, 7, 8, 10, 11	5.7	1, 2, 3, 5, 8, 9,
3.6	1, 2, 4, 6, 7, 8		