

MAT 525: Mathematical Statistics (Spring 2018)
Course Information (TTh 2 p.m.-3:20 p.m.)

Instructor: Professor H. Hyune-Ju Kim Carnegie 304E
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Office Hours: T 11 a.m.-noon, W 11 a.m.-noon, and by appointment

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

Course Description: Contents in Chapters 7-11 of DeGroot and Schervish will be covered.

The course will cover statistical inference: statistical estimation and hypothesis testing. Point estimation will be taught with discussion on accuracy and efficiency, and concepts and applications of confidence intervals will be covered. For hypothesis testing, the course will introduce basic testing procedures, covering underlying theory and methods of statistical testing. Analysis of categorical data and linear models will be covered using a statistical package.

Learning Goals: Goals of this course would be to understand basic ideas of statistical inference, to learn theoretical basis of fundamental inferential procedures, and to apply them in real data analysis.

Prerequisite: Calculus and MAT 521 or equivalent.

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

Grading Policy: Homework/Quizzes/Class participation (20 %)
Midterm Exams (45 %)
Final Exam (35 %)

There will be no make-ups for any reason. If you miss a test for a valid reason with supporting documents, the final will count correspondingly more.

Exams: Exam 1 (February 13, Tuesday)
Exam 2 (April 3, Tuesday)
Final (May 8, Tuesday, 10:15 a.m.-12:15 p.m.)

Homework: Homework will be assigned and collected in class. You are encouraged to discuss homework problems with your classmates, but each of you are expected to write up your solutions independently. Based on the availability of the grader, all or some of the problems will be graded by a part-time grader.

Attendance: You are expected to attend every class, every in-class exam/quizzes and the final exam. If you miss a class, it is your responsibility to obtain a copy of the lecture notes from another student. You are also responsible for any announcements about changes to the course schedule, the exam schedule, or the course requirements made during that class.

Students with Disabilities: If you believe that you need academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS), visit the ODS website—<http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, or call (315) 443-4498 or TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting academic adjustments. ODS is responsible for coordinating disability-related academic adjustments and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since academic adjustments may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

Academic Integrity: Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice. The Violation and Sanction Classification Rubric establishes recommended guidelines for the determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation in this course may result in course failure regardless of violation level. For more information and the complete policy, see <http://class.syr.edu/academic-integrity/>

Religious observances policy: SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services -> Enrollment -> My Religious Observances) from the first day of class until the end of the second week of class.

MAT 525 Tentative Schedule

	Tuesday		Thursday	
January	16	Intro/7.1	18	7.5
	23	7.5	25	7.5/7.6
January/February	30	Quiz/7.7	1	7.7/7.8
	6	7.9	8	Review
	13	Exam 1	15	8.1/8.2
	20	8.3	22	8.4
February/March	27	8.5	1	8.7
	6	Quiz/8.8	8	9.1
	20	9.1/9.2	22	9.2
	27	9.3/9.4	29	Review
April	3	Exam 2	5	9.5
	10	9.6	12	9.7
	17	10.1	19	10.2
	24	10.3/10.4	26	Chap 11
May	1	Review		
	Final Exam (May 8 (Tuesday) 10:15 a.m.-12:15 p.m.)			