

SYRACUSE UNIVERSITY
MAT 521, INTRODUCTION TO PROBABILITY AND STATISTICS
SUMMER 2017 SYLLABUS

SECTION: M002 (Class No: 70282)

Class: MoTuWeTh 2:00PM-3:45PM in Carnegie 120

Instructor: Thomas John, Ph.D.

Contact Info: Office: Carnegie 313A, Phone: 443-1587, email: thjohn@syr.edu

Office Hours: Mon & Wed 12:45 PM - 1:45 PM, or by appointment

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

Text: *Introduction to Probability*, by Blitzstein and Hwang, ISBN-13: 9781-4665-75578. The material covered in this course appears in Chapters 1 thru 8, and chapter 10.

Mathematics Prerequisite: MAT 397.

Quiz: Starting from the second day of classes, there will be a quiz almost every lecture except on the days of the exams. The topics covered in the quiz will be announced in the previous lecture. There will be no make-up quizzes. The lowest (one) quiz score will be dropped.

Homework: Homework will be assigned on a regular basis. It will be announced daily in lecture regarding which of the HW will be collected, how, and when. Some of the HW will be collected via the online portal: http://webwork.syr.edu/webwork2/MAT_521_Summer_2017_John/. This site will be setup and access information will be provided on the first day of classes.

Grading: Your final grade will be based on two midterm exams (25% each), a cumulative final exam (30%), quiz/HW/class attention (20%). Final letter grades will be given according to the following scale:

A (93-100)	A- (90-92)	B+ (87-89)	B (83-86)	B- (80-82)
C+ (77-79)	C (73-76)	C- (70-72)	D (60-70)	F (0-59)

Exams: The dates for the exams are:

Test 1: Tuesday, June 6

Test 2: Thursday, June 22

Cumulative Final: Thursday, June 29

The final will only be given at this time, so do not make plans to leave town before 3:45PM on Thursday, June 29.

Make-up Policy: There will be absolutely no make-ups for any reason. If you miss a quiz/test for a valid reason (which must be verified by a note from a physician or your dean's office), the missing score will be replaced based on the performance from the corresponding part of a test/final.

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

Cell Phones: Cell phones should be turned off and put away during class. **This policy will be strictly enforced in class** (note: quiz/HW/class attention counts 20% of the grade). Calculators on cell phones cannot be used on quizzes or tests.

Calculator: You will need a calculator which can compute the binomial, normal and Poisson distributions. The TI-83+ will be used to demonstrate these functions in class. Calculators with symbolic manipulation capabilities such as the TI-89 or TI-92 may not be used on quizzes or exams. Further, calculators are not to be shared during exams and quizzes. You can borrow (for approximately 2 hours) a calculator from Carnegie library with an ID.

Available Student Assistance: In addition to the instructor's office hours, the Mathematics Department offers regular free math clinics which will begin on the first day of classes. A schedule of the clinics will be available online at math.syr.edu/undergrad/math-help.html.

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.

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 academic integrity. Serious sanctions can result from academic dishonesty of any sort. For the complete policy, see <http://academicintegrity.syr.edu>.

The key academic integrity aspect for this course comes from the quizzes and the exams the student completes during the course. All quizzes and exams will be closed books and closed notes. Except for the calculator, accessing any other material (electronic or hard copy or from another student) during quizzes and exams will be considered as academic dishonesty. In particular, sharing a calculator with another student or using the calculator on the cell phone or simply accessing the cell phone during quizzes and exams will be considered as academic dishonesty.

All academic integrity violations will be reported to the Academic Integrity Office (AIO).

Students with Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS) at

<http://disabilityservices.syr.edu>

located in Room 303 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. Please do not wait until just before the first exam.

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 are religious observance provided they notify their instructors before the end of the second week of classes. 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.