

MAT121 Probability and Statistics for the Liberal Arts I

Summer Start 2015
MTWTh 8:00 – 9:25 AM
Hall of Languages 115

Instructor: Joshua Jones
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Office: Carnegie 400
Office hours: MW 1:00 PM – 2:00 PM, or by appointment

Course Description: First course in a two-course sequence. Teaches probability and statistics by focusing on data and reasoning and includes displaying data, probability models, and distributions. A student cannot receive credit for MAT 121 after completing any MAT course numbered above 180 with a grade of C or better.

Prerequisites: No formal prerequisites, but it is desirable that students have a reasonable level of competence in high school algebra.

Required texts:

- *Elementary Statistics with Finite Mathematics* by Mario F. Triola, Second Custom Edition for SU Math 121 & 122.
- Minitab Manual for the 12th Ed. of *Elementary Statistics* by Mario F. Triola

Class dates: This class will meet from Monday July 6th to Thursday August 13th, 2015

Attendance: To fully understand the material you must attend all the sessions. It is expected that students will come to class prepared to learn; bring a notebook, a pencil, and a calculator (not the one on your phone). Asking and answering questions in class helps gauge how well you are learning the material, so please do not hesitate to participate. Your attendance and participation will account for 5% of your overall grade.

Cell Phones: Please be sure to turn off your cell phones and any other electronic devices during class. Texting is also not allowed.

Calculator: A basic calculator that can take square roots is required. However, a TI-83/84 is highly recommended. Calculators will be allowed for all class work, homework, tests, and quizzes. *Calculators on cell phones are not to be used on tests, quizzes, or even on normal class work.*

Labs: Class will meet regularly in the computer lab in the Physics Building, room 115 to complete statistical experiments using Minitab. Dates for labs will be announced in class.

Homework & Quizzes: Homework will be assigned on a regular basis for your practice. It will NOT be handed in and will NOT be graded. However, it is ESSENTIAL you know how to do the problems. Quizzes based on the homework will be given regularly in class (these will NOT be open book).

Exams: There will be two midterm exams and one final exam. **The final exam will be given on Thursday, August 13, during the regular class period of the last day of class.** Do NOT make any plans to leave campus before the final exam. If there is an urgent need to leave campus before the final

exam is given, please see me, otherwise you must take the final exam during the scheduled time. The midterm exams are tentatively scheduled for **July 14 (Exam 1)** and **July 28 (Exam 2)**. You will be allowed to use your textbook and calculator during each exam, but you will NOT be allowed to use your NOTES. There will be NO MAKE-UP exams. The grade for any exam missed will be replaced with the grade you receive on the final exam. But the instructor must be convinced that you have a good reason for missing the exam.

Grades: Grades will be assigned based on the percentages below:

Exam 1	20%
Exam 2	20%
Final Exam	20%
Quizzes	20%
Labs	15%
Attendance /Participation	5%

Your letter grade is based on the following table of scores:

Letter Grade	Overall Grade	Letter Grade	Overall Grade
A	93 - 100	C+	76 - 79
A-	90 - 92	C	73 - 75
B+	86 - 89	C-	70 - 72
B	83 - 85	D	60 - 69
B-	80 - 82	F	0 - 59

Course Goals: By the end of this course you will be able to ...

- Describe data: Its center, spread, and shape
- Summarize and organize data using charts and tables
- Interpret results from data
- Estimate population values based on sample data (confidence intervals)
- Gain experience using Minitab statistical software

Getting Help: Your instructor will be holding regular office hours and will make appointments with students having class conflicts with their scheduled office hours. In addition, SummerStart offers regular math counseling, a free math tutoring service. This service is available 7-10 PM, Sunday through Wednesday in Ernie Davis Room 202 beginning Tuesday 7th July, 2015 up until 12th August, 2015.

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 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. Do not wait until just before the first test.

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. 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

Problems: Please inform your instructor of any problems that you have with this course. Problems not satisfactorily resolved with your instructor should be brought to the attention of the course supervisor without delay.

Monday	Tuesday	Wednesday	Thursday
1.1 – 1.5	2.1 – 2.3	Quiz 1 2.4 – 2.5, 3.1 – 3.2	3.3 – 3.4
Lab #1 Review	Exam 1 (Chapter 3)	4.1-4.2	4.3-4.4
Lab #2 4.5-4.6	4.7	Quiz #2 5.1-5.2	5.3-5.4
Lab #3	Exam #2	6.1 – 6.2	6.3
Lab #4 6.4 – 6.6	7.1 – 7.2	Quiz #3 7.3	7.4
7.5	Quiz #5 Review/Flex	Review	Final Exam