

**MAT 121-902 – Probability and Statistics for the Liberal Arts  
Summer 2017**

**Instructor:** Erin Griffin      **Office:** Carnegie 400  
**Office Hours:** MT 12:30pm-1:30pm      **Email:** egriff02@syr.edu

**Course Description:** This is the first course in a two-course sequence. The focus of this course is 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: A basic understanding of algebra.

**Course Prerequisites Restrictions:** MAT 121 has no formal prerequisites; however, it is desirable that students have a reasonable level of competence in high school algebra. MAT 121 is a prerequisite for MAT 122. A student cannot receive credit for MAT 121 after completing STT 101 or any MAT course numbered above 180 with a grade of C or better

**MAT 121 and the Liberal Arts Core:** The sequence MAT 121 MAT 122 can be used to satisfy the quantitative skills requirement of the liberal arts core in the College of Arts and Sciences.

**Course Objectives** 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

**Course Material:**

- *Elementary Statistics with Finite Mathematics*, Fourth Custom Edition for Syracuse University, Math 121 & 122
- Affiliated Minitab Manual that goes with the 12th edition of *Elementary Statistics* by Mario F. Triola
- Calculator that is able to take square root

**Computer Labs:** There will be one computer lab assignments to be done per chapter during class time. These assignments will be handed in, and graded. There will be no make-up labs offered. In lieu of this, your lowest lab score will be dropped.

**Homework:** Homework is for your practice. No homework will be collected. Page 4 of the syllabus contains suggested problems for each section. It is also a good idea to try the

statistical literacy and critical thinking, chapter quick quiz, and review exercises at the end of each chapter.

**Quizzes** There will be regular, closed book quizzes at the beginning of class based on the previous lecture. It would be to your advent to do the suggested problems before coming to class.

**Exams:** There will be two exams and one final. You should bring your textbook (not the lab manual) and calculator to each exam (including the final). You will be allowed to use your textbook (not the lab manual) and calculator during the exam, but will not be allowed to use any notes other than what you write in, or attach modestly to, your textbook. Cell phones or any other devices capable of wireless communication are not allowed. Student IDs will be checked during the exams.

**Attendance:** Attendance is mandatory and will be reflected in your participation grade. After 3 absences your advisor will be notified.

**Make-ups:** There will be no make-up labs. There will be no make-up quizzes, your lowest quiz grade will be dropped. There will be no make-up exams. When an exam is missed for a reason deemed valid by the instructor, the missing grade will be replaced, without penalty, by a students score on the final exam.

**Grading:** The final score will be computed on a scale of 0 to 100 from:

- (15%) Labs
- (5%) Attendance/ Participation
- (20%) Quizzes (lowest grade dropped)
- (20%) Exam 1
- (20%) Exam 2
- (20%) Final exam

The final letter grade will be determined as follows:

Letter Grade	Low ( $\geq$ )	High ( $<$ )
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	69
F	0	59

## **Exam Dates:**

- Exam 1: July 17, 2017
- Exam 2: July 18, 2017
- Exam 3: August 1, 2017
- Final Exam: August 10, 2017

**Orange SUccess:** This class will participate in the Orange SUccess Early Alert Program. The program is designed to promote student success through coordination and communication among students, instructors, advisors, and campus support service departments. If I observe that you are experiencing difficulties in the course (in attendance, test scores, or participation, for example), I will send an email to your syr.edu email account through the Orange SUccess Early Alert program. My message will tell you about my concerns and ask you to meet with an academic advisor. Your advisor or TA will work with you to create strategies for a Success Plan to address any difficulties you are having in the course. In addition, if I observe that you are doing well in my course, you will also receive kudos from me acknowledging your efforts.

Orange SUccess may involve taking advantages of various campus support services, such as academic tutoring or advising. If I recommend that you use campus support services, your advisor will redirect you to that support service department so they will be better prepared to assist you. Since the “Early Alert” program provides essential notices by email, a course requirement is that you check your syr.edu account frequently and respond quickly if you receive an email through the Orange SUccess Early Alert Program. You will be contacted directly by the appropriate department if you do not respond to such requests.

**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 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://academicintegrity.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.

**Cell Phones:** all electronic devices other than the calculator should be turned off and put away during class. Calculators on cell phones are not to be used on tests or quizzes.

**Resolving Problems:** Please inform your instructor of any problems that you have with the course. Problems not satisfactorily resolved with your *instructor* should be brought to the attention of the Course Supervisor (listed below) without delay. Note that this person is *not* your instructor.

Dan Zacharia  
zacharia@syr.edu  
315.443.1580

**Help:** I will be available regularly during my office hours. You can also seek help from the Math Consultants in Booth Hall from 6 P.M. - 9 P.M. Sunday - Wednesday.

### Tentative Class Calendar

Week	Monday	Tuesday	Wednesday	Thursday
Week 1: July 3-6	1.1 -1.4	NO CLASS	2.1- 2.4	3.1- 3.4
Week 2: July 10-13	Catch-up	4.1- 4.2	4.4- 4.6	4.7
Week 3: July 17-20	Review	EXAM 1	5.1-5.2	5.3 - 5.4
Week 4: July 24-28	Review	6.1-6.2	6.3-6.4	6.4-6.5
Week 5: July 31-Aug 3	Review	EXAM 2	7.1-7.2	7.3
Week 6: Aug 7-10	7.4	Catch-up	Review	FINAL EXAM

### Suggested Homework Problems

1-2: 1-35 odd  
1-3: 1-31 odd  
1-4: 1-25 odd  
2-2: 1-31 odd  
2-3: 1-17 odd  
2-4: 1-23 odd  
3-2: 1-31 odd  
3-3: 1-41 odd  
3-4: 1-35 odd  
4-2: 1-41 odd  
4-3: 1-37 odd  
4-4: 1-29 odd  
4-5: 1-31 odd

4-6: 1-35 odd  
5-2: 1-21 odd  
5-3: 1-39 odd  
5-4: 1-19 odd  
6-2: 1-47 odd  
6-3: 1-33 odd  
6-4: 1-17 odd  
6-5: 1-21 odd  
6-7: 1-23 odd  
7-2: 1-37 odd  
7-3: 1-29 odd  
7-4: 1-22 odd