

## **MAT 122 – Probability and Statistics for the Liberal Arts I**

Summer Session 1 2016  
MTWTh 10AM-12:25AM  
Sims Hall 237

**Instructor:** Instructor Samuel Leitermann

**Office:** 105A Archbold North

**Office Hours:** MW 8:50 – 9:50

**Email:** slleiter@syr.edu

**Course Description:** This is the first course in a two-courses sequence. It 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 and MAT course numbered above 180 with a grade of C or better.

**Prerequisites:** A basic understanding of Algebra.

### **Texts:**

- *Elementary Statistics* by Mario F. Triola, *SU CUSTOM EDITION*
- Minitab Student Laboratory Manual and Workbook

**Attendance:** This class will meet May 23<sup>rd</sup> – July 1<sup>st</sup>. Attendance is required and will count as 5% of your overall grade.

**Cell Phones:** Please turn all cell phones and electronic devices off during class. NO texting.

**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 or quizzes.*

**Labs:** Class will meet regularly in a computer lab to complete statistical experiments using Minitab. I will announce these dates in class.

**Homework & Quizzes:** Homework will be assigned on a regular basis, but will NOT be collected. It is essential that you know how to do the problems for your success in this class. Quizzes based on these homework problems will be given regularly in class and will not be open book.

**Exams:** There will be two midterm exams and one final exam. **The final exam will be given on Thursday, July 1<sup>st</sup>, during the regularly scheduled class period on the last day of class.** You cannot make any plans to leave campus before the final exam. If you have an urgent need to leave campus before the final exam is given, please see me. The exams will all be given open book (closed notebook) and there will be NO MAKE-UP EXAMS.

**Grading:** The final score will be computed on a scale of 0 to 100 from the tests (60%), homework, quizzes and test corrections (20%), and the final exam (20%). The final letter grade will be determined as follows:

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.	

Grades will be assigned based on the percentage below:

Exam 1 – 20%
Exam 2 – 20%
Final Exam – 20%
Quizzes – 20%
Labs – 15%
Attendance – 5%

**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:** 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 must 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. 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.

**Course Objectives and Learning Goals:** By the end of this course you will be able to...

- Describe data: 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

**Help:** Your instructors will be available regularly during their office hours. You can also seek help at the math clinic. The location and hours of operation will be posted outside of the Math Department Office (215 Carnegie Hall); you can obtain a copy of the schedule in the Math Dept. Office.

**Contacting your Instructor:** I am easily contactable by email, and check my email several times a day. When contacting me, please make an effort to contact me ahead of time and to include a clear and

concise subject message in your email.

**Cell Phone and Electronics Policy:** Cell phone and other electronics use is not permitted during class time. As an instructor I reserve the right to take away credit for the days assignment or dismiss you from class if cell phone use becomes a chronic problem. The use of cell phones in class is distracting to other students and detracts from your education.

**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 **without delay**. The course supervisor for summer classes is Dr. Zacharia (zacharia@syr.edu)