

MAT 221- U030 Syllabus
Syracuse University Weekend College
Fall 2017: August 28th- December 5th

Professor: Ronald Margrey
E-mail: rfmargre@uc.syr.edu
Phone: 315-447-6208 {cell}

Textbook: *Introduction to the Practice of Statistics* by D. S. Moore, G. P. McCabe, and B.A. Craig, *8th edition*. Chapters 1-6 will be covered in MAT 221. The same book will be used for those taking Math 222 , Spring 2018.

Calculator: You will need a calculator to do the computations that will arise throughout the course. No specific calculator is required, but TI 84 or TI 83 graphing calculator is highly recommended. Calculators on cell phones are not to be used on tests.

Course Description: This course is the first course in the Quantitative Skills sequence MAT 221-222. The primary objective of MAT 221 is to provide students with knowledge of elementary probability and statistics. Students will learn the basic concepts of descriptive statistics, design of experiments, probability theory, sampling distributions, and estimation of parameters. Students continuing to MAT 222 will learn how to use statistics to make various decisions.

Mathematics Prerequisite: Algebra competency

Online Course Format: The course begins with three **mandatory** classroom sessions that meet from 10:00 a.m. to 12:30 p.m. on Sunday, September 10, October 29, and December 3., in the Hall of Languages room 102. At these sessions, course content and calculator features will be introduced. Also at this time, in depth study and work on assigned problems will begin.

Homework/Lecture Notes: Homework/Lecture Notes will be posted on Blackboard each Friday of our term. These notes will contain comments on the subject matter,

instructions for using the calculator, and a list of assigned problems. Solutions to the assigned Graded Problems are due ten days later, that is on the second Monday following the posting of the lecture notes. Late homework will be docked. Solutions to the assigned Practice Problems need not be submitted for grading. The answers for these practice problems will be given or can be found in the back of the textbook.

Exams: There are two proctored on campus exams. The proctored midterm exam is scheduled to be on campus, Tuesday, October 10th, 5:15 to 7:30. The proctored final exam is scheduled for Tuesday, December 5th, 5:15 to 7:30. If you cannot do this time and day, contact me and we can arrange a time and place with an approved proctor. The midterm and final exam must be taken with an approved proctor. The Midterm and Final Exam are closed book and notebook exams. The Midterm exam will cover Chapters 1-3 and the Final Exam will cover Chapters 1-6.

Grades: Course grades will be determined by the homework grade {34%} and the grades on midterm exam {33%} and proctored final exam {33%}.

<u>Raw Grade x</u>	<u>Letter Grade</u>	<u>Raw Grade x</u>	<u>Letter Grade</u>
$93 \leq x \leq 100$	A	$77 \leq x < 80$	C+
$90 \leq x < 93$	A-	$73 \leq x < 77$	C
$87 \leq x < 90$	B+	$70 \leq x < 73$	C-
$83 \leq x < 87$	B	$60 \leq x < 70$	D
$80 \leq x < 83$	B-	$0 \leq x < 60$	F

Course Topics: Chapter Sections covered in the course are.

Chapter 1 Sections 1.1, 1.2, 1.3

Chapter 2 Sections 2.1, 2.2, 2.3, 2.4, 2.5

Chapter 3 Sections 3.1, 3.2, 3.3, 3.4

Chapter 4 Sections 4.1, 4.2, 4.3, 4.4

Chapter 5 Sections 5.1, 5.2

Chapter 6 Sections 6.1, 6.2

How to Study: Each week.

1. Read the lecture notes for that section. While reading instructions for using the calculator, carry out each step on our calculator and confirm the results shown in the notes.
2. Read the textbook sections carefully. You may omit an discussion of tables and software other than the TI calculator. We will use the calculator instead of the formulas and table. Notice at the end of each section, a valuable summary of important concepts introduced in the section.
3. Work each assigned Practice Problem and check your answer to that given the lecture notes or in the back of the book.
4. Work the assigned Graded Problems and write up you solutions in a WORD document that contains the screens from your calculator. Attach the WORD document to an e-mail and send it to the e-mail address given above.

How to Get Help: This course moves rapidly through the material. If you find you need help understanding the textbook reading, solving an assigned problem, or learning the calculator, you should contact professor Margrey right away. If needed a meeting can be scheduled to discuss the material more thoroughly. E-mail or call Professor Margrey to arrange an appointment.

In addition, the Mathematics Department offers regular math clinics. These will be set up by the second week of the semester and a schedule of the clinics will be posted outside the math office and on the department's website. <http://math.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.

Related link: <http://disabilityservices.syr.edu/faculty-staff/syllabus-statement/>

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. Related link:

http://supolicies.syr.edu/studs/religious_observance.htm

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/policy/>

Learning Goal: Students will be expected to,

1. Use and understand basic mathematical notations;
2. Select and apply an appropriate mathematical model for certain elementary probability problems;
3. Do basic hand calculations with accuracy;
4. Use appropriate hardware and software related to certain probability distributions.