MAT 121 Probability and Statistics for the Liberal Arts I Fall 2009 (TTh)

Course Description: MAT 121 is a first course in a two-course sequence on introductory probability and statistics. The course will cover graphical and numerical display of data, probability rules and distributions, sampling distributions, and confidence interval estimates.

Prerequisites: 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 can not 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.

Texts: Elementa~ Statistics by Mario F. Triola 11th edition and the accompanying Minitab Manual for the 11^{t} edition.

Calculator: You will need a calculator that can at least add, subtract, multiply, divide, and take square roots.

Computer Labs: When you registered for this course, you should have also registered for a recitation section that goes with it. These meet in Carnegie 100 or Physics 115. There will be computer lab assignments to be done during these recitation times, which you must hand in to be graded. Please bring your textbook, laboratory manual, and calculator to these recitations.

Homework: Homework is for your practice. It will not be handed in; it will not be graded. All the odd numbered exercises in the basic skills and concepts section are suggested homework problems. It is also a good idea to try the odd numbered exercises in the review exercises at the end of each chapter.

Exams: There will be four midterms and one final. You should bring your calculator to exams. You may use the textbook during exams. Your textbook may be embellished with notes which are either written on or attached to the pages of the book. See page 5 for more details. No other materials will be allowed during exams. Student ID's will be checked during the exams.

Make-up Exams: Make-up exams will be given only in very exceptional circumstances. In some cases the final exam will be counted extra instead of a make-up exam. In either case, the student must provide a written verification to justify missing the exam.

Final exam: MAT 121 will be assigned a two-hour time slot during Period 5 for a final exam. This period is from 8:00 AM to 2:30 PM on Wednesday, December 16, 2009. The exact time and location for the 2-hour time slot for the final exam will be announced in lecture near the end of the term. The final exam will not be given at any other time. Therefore, do not make plans to leave campus before 2:30 PM on December 16.

Calculation of Course Grade: Each midterm exam and the final exam will be graded on a scale of 0-100. Your computer labs will also be graded on a scale of 0-100. Your overall score for the term is then computed by the following formula.

Overall score = (.20)(lab assignments) + (.15)(test 1) + (.15)(test 2) + (.15)(test 3) + (.15)(test 4) + (.20)(final)

Your letter grade for the term then comes from the following table.

Overall score x	Letter Grade
$0.5 \ x < 60$	F
$60.5 \ x < 70$	O
$70.5 \ x < 73$	C-
$73.5 \ x < 76$	C
$76.5 \ x < 80$	C+
$80.5 \ x < 83$	B-
$83.5 \ x < 86$	B
$86.5 \ x < 90$	B+
$90.5 \ x < 93$	A-
$93.5 \ x:51 \ 00$	A

Students with disabilities: Students who may need special accommodations because of a certified disability should make an appointment to see the instructor during office hours. This should be done early in the semester since accommodations will not be made retroactive. Students who have special accommodations should see their instructor at least two days before each examination to confirm that arrangements / accommodations are in place. This is the student's responsibility.

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://academicintegrity.syr.edu .

Course Supervisor: Professor Hyune-Ju Kim, 304E Carnegie, x1494, hjkim@syr.edu.

Please inform your instructor of any problems you have with this course. Problems not satisfactorily resolved with your instructor should be brought to the attention of the Course Supervisor (listed above) without delay.

MAT 121 Schedule (T-Th)

Date		Sections	Weekly Lab		
			M	W	F
Sep	1	Chapter 1	8/31 Lab 1	9/2 Lab 1	9/4 Lab 1
	3	2-1, 2-2, 2-3			
	8	2-4,2-5	No Class	9/9 Lab 2	9/11 Lab 2
	10	3-1, 3-2, 3-3			
	15	3-4	9/14 Lab 2	9/16 Lab 3	9/18 Lab 3
	17	Misc. Topics			
	22	Review	No Class	9/23 Lab 4	9/25 Lab 4
	24	Test 1			
	29	4-1,4-2	No Class	9/30 Lab 5	10/2 Lab 5
Oct	1	4-3			
	6	4-4,4-5	10/5 Lab 3	10/7 Lab 6	10/9 Lab 6
	8	4-6,4-7			
	13	5-1, 5-2	10/12 Lab 6	10/14 Lab 7	10/16 Lab 7
	15	5-3,5-4			
	20	Review	10/19 Lab 7	10/21 Lab 8	10/23 Lab 8
	22	Test 2			
	27	6-1, 6-2	10/26 Lab 8	10/28 Lab 9	10/30 Lab 9
	29	6-3			
Nov	3	6-4,6-5	11/2 Lab 9	11/4 Lab 10	11/6 Lab 10
	5	6-6,6-7			
	10	Review	11/9 Lab 10	11/1. Lab 11	11/1. Lab 11
	12	Test 3			
	17	7-1, 7-2	11/16 Lab 11	11/18 Lab 12	11/2. Lab 12
	19	7-3			
	24	7-4,7-5	11/23 Lab 13	Thanksgiving Break	
Dee	1	Review	11/30 Lab 13	12/2 Lab 13	12/4 Lab 13
	3	Test 4			
	8	Review	12/7 Lab 4	12/9 No Lab (Make-up)	12/1. No Lab (Make-up)
	10	Review	12/14 Lab 5		

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MAT 121 Computer labs

lab	Sections	Experiments
1	Basics of **MINITAB**	1-1, 1-4,1-7
2	Sections 2-1, 2-2, 2-3, 2-4	2-2,2-10,2-12
3	Sections 3-1, 3-3	3-2,3-3
4	More on Chapter 2 (2-5, 2-6, 2-7, 2-8, 2-9)	2-13,2-14,2-18, 2-20
5	More on Chapter 3 (3-2, 3-4, 3-5)	3-1, 3-4, 3-9
6	Sections 4-1, 4-2, 4-3	4-1, 4-3, 4-6, 4-7
7	More on Chapter 4	4-2,4-19
8	Sections 5-1, 5-2	5-1, 5-4
9	More on Chapter 5 (5-4)	5-6,5-7,5-8, 5-16
10	Sections 6-1 , 6-4	6-1, 6-2, 6-7, 6-9
11	Sections 6-2, 6-3	6-3, 6-5
12	Sections 7-1, 7-2	7-1,7-2,7-13,7-14
13	Seetions 7-3, 7-4	7-5,7-6,7-18,7-26

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<ecall the following rules from the syllabus for the exams.

> Exams: There will be four midterms and one final. You should bring your calculator to exams. You may use the textbook during exams. Your textbook may be embellished with notes which are either written on or attached to the pages of the book. See page 5 for more details. No other materials will be allowed during exams. Student ID's will be checked during the exams.

In case you prefer attaching notes to the book, your notes must satisfy the following restrictions:

1. Each piece of paper can be no larger than the rectangle that appears below.
2. Each piece of paper must be attached to an existing page in the book. It must be attached securely enough so that it is unlikely to fall off during an exam. Self adhesive note paper is probably the best way to go. Paper clips are not acceptable. You may use these attached pieces of paper as tabs to help you locate information in the book.
3. At most three pieces of paper may be attached to anyone side of anyone page in the book.

No loose notes are allowed, and for attachment you must use existing pages in the book. You may not insert extra pages into the book.