STATISTICS (MATH 167) – ROOM E223
M/W 12-1:15
CRN 10776
INSTRUCTOR – BARBARA MAURICE
SPRING 2009
OFFICE - ROOM 206; PHONE 383-5221
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COURSE DESCRIPTION
Prerequisite: Acceptable placement score or MAT 137. This course introduces the basic concepts of statistics as they apply primarily to business, the technologies, and the social sciences. The topics include: methods of summarizing data, measures of central tendency and dispersion, correlation and linear regression, basic probability, binomial and normal distributions, hypothesis testing for one or two populations, confidence intervals, and distributions.

TEXTBOOK
Elementary Statistics by Mario F. Triola, Tenth Edition. A TI83 calculator is required.

TENTATIVE SCHEDULE

W 1/21	Introduction	1.2-1.3
M 1/26	Summarizing and graphing data	2.2-2.3
W 1/28	Measures of center and variation	3.2-3.3
M 2/2	Measures of relative standing	3.4
W 2/4	Fundamentals of probability	4.2
M 2/9	TEST #1 (CH. 2-3)	
W 2/11	Addition rule, multiplication rule	4.3-4.4
M 2/16	Classes not in session	
W 2/18	Complements and conditional probability	4.5
M 2/23	Counting and review	4.7
W 2/25	Random variables	5.2
M 3/2	Binomial probability distributions, mean and standard deviation	5.3-5.4
W 3/4	Standard normal distribution	6.2
M 3/9	TEST #2 (CH. 4-5)	

W	3/11	Applications of normal distributions	6.3
3/15-3/22		SPRING BREAK	
M	3/23	Central limit theorem	6.5
W	3/25	Normal distribution as approximation to binomial distribution	6.6
M	3/30	Estimating a population mean: σ known	7.3
W	4/1	Estimating a population mean: σ unknown	7.4
M	4/6	Basics of hypothesis testing	8.2
W	4/8	TEST # 3 (CH. 6-7)	
M	4/13	Testing a claim about a mean: σ known	8.4
W	4/15	Testing a claim about a mean: σ unknown	8.5
M	4/20	Inferences about two means: independent samples	9.3
W	4/22	Inferences about two means: matched pairs	9.4
M	4/27	Correlation	10.2
W	4/29	Regression	10.3
M	5/4	Review	
W	5/6	TEST #4 (CH. 8-10)	
M	5/11	Make – up	
W	5/13	To be used as needed	
M	5/18	To be used as needed	

Attendance/Homework/Requirements

It is strongly suggested that students make every effort to attend ALL classes. More than three absences during the semester will jeopardize the student's success in the course. Homework will be assigned on a daily basis. All homework assignments must be completed. Students will be required to have a two-section math notebook. One section is to be dedicated to class notes while the other section will be dedicated to homework. The student's math notebook should be available to the instructor at each class. Students are allowed to use a calculator. Cell phones may not be used as a calculator and must be turned off during class.

Methods of Evaluation/Make-ups
Tests will be announced. Unannounced quizzes may be given at the discretion of the instructor.
Tests that are missed for any reason cannot be made up (with the exception of snow conditions). If a
student misses one of the first three tests, a make-up test will be given at the end of the semester. A
student can also use this make-up test to replace their lowest test grade. Final grades will be assigned
according to the following:

CLASS AVERAGE	FINAL GRADE
90 -100	A- / A
80 - 89	B- / B+
70 - 79	C- / C+
60 - 69	D- / D+
Below 60	F

Statement on Disabilities
If you are a student with a disability and believe you will need accommodations for this class, it is
your responsibility to contact the Disabilities Counseling Service at 383-5240. To avoid any delay in
the receipt of accommodations, you should contact the counselor as soon as possible. Please note
that I cannot provide accommodations based upon disability until I have received an accommodation
letter from the Disabilities Counselor. Your cooperation is appreciated.

Class Cancellation

The Three Rivers web site provides a full listing of radio and television stations that alert students to
school closings and delays. Go to: www.trcc.commnet.edu. and click on General Information and
Weather Procedures.

TENTATIVE HOMEWORK ASSIGNMENTS

1.2   5-12
1.3   5-8, 21-25, 27

2.2   5-8, 13-18
2.3   5-10

3.2   5, 6, 8-11, 13, 14, 17, 19, 25, 26
3.3   5, 6, 8-11, 13, 14, 17, 19, 25, 26
3.4   5-26

4.2   5-13, 15, 17, 19, 21, 25-28
4.3   5, 7-20
4.4   2-11, 13, 15-20, 22, 23
4.5   5-24
4.7   1, 5-17, 19, 21, 23, 25-28, 30, 31, 32, 35

5.2   1-10, 13, 15, 17, 18, 19, 21
5.3   13, 15-29, 31, 36
5.4   1-13, 15, 17, 19

6.2   9-40
6.3   5-18, 21, 23
6.5   5-9, 11, 13, 15, 17, 18, 19, 23, 27, 28
6.6   5-17 odd, 18, 25

7.3   9-19 odd, 25, 27, 29, 33, 35
7.4   5-14, 17, 20, 23

8.2   9-24
8.4   11, 13, 15, 17
8.5   5-8, 17, 19, 20, 21, 23, 28

9.3   9, 11, 13, 15, 17
9.4   5, 11, 13

10.2   7, 9, 17, 21
10.3   8, 9, 17, 21