

MAT*K167 Principals of Statistics Fall 2010

31245 T04 MW 3:30 pm – 4:45 pm D 211

INSTRUCTOR: Dr. Kelly Molkenhain (pronounced “molk-in-tine”)
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 Email: kmolkenhain@trcc.commnet.edu

 Office Hours: Tuesdays 1:15 – 2:15 pm
 Wednesdays 11:30 am – 12:30 pm
 Thursdays 1:15 – 2:15 pm
 Fridays 11:30 am – 12:30 pm
 and by appointment.

REQUIRED MATERIAL:

- *Elementary Statistics, 11th Edition*. Mario F. Triola. Pearson Prentice Hall, 2009. ISBN # 978-0-321-50024-3 (also, ISBN # 0-321-50024-5)
- Calculator that supports 2-variable statistical calculations (preferably the TI-83 or TI-84).

CALCULATORS: Calculators will be needed for many homework problems and it is **REQUIRED** that you bring one to each class, **every quiz** and **each exam**. Cell phones may **NOT** be used as calculators. It is highly recommended that you have a **TI-83** or **TI-84**.

COMPUTERS: Homework will be assigned on a regular basis and will be completed online using MyStatLab at www.coursecompass.com. If you did not purchase a book which has an access code bundled with it, you will have to purchase one separately. To register with MyStatLab, you will need the following information:

Course name: **Elements of Statistics**
 Course ID: **molkenhain94983**

Go to the above website and click on the tab *Register*. Select *Get access to a new course*, and click *Next*. You will be asked to enter the course ID (see above), then click on *Find Course*. If you do not have an access code, you can purchase one now with a credit card by clicking on *Buy now* under Enrollment Options. If you have an access code (inside the cover of a new textbook purchased from the bookstore), you are ready to register, so click *access code* under Enrollment Options. Enter your six word access code when prompted, click *Next*, and follow the prompts to create your own login name and password. **Be sure to remember/record your user name and password. Forgetting your user name and/or password is NOT a valid reason for not completing assignments.** After you have registered, return to the above website and you can now log in. Go to the *Welcome Page*, click on your course, and then choose the *Installation Wizard* link to make sure your computer has the required set-up and plug-ins. Tech support for the company is at 1-800-677-6337, Monday through Friday, 9 am – 6 pm.

GRADING:	3 In-class Exams:	300 points (100 each)
	Final Project:	100 points
	Final Exam (cumulative):	150 points
	Weekly Quizzes:	100 points (10 each)
	MyMathLab	100 points
	Attendance and Participation:	50 points
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	Total:	800 points

Your final grade is the total number of points you have received divided by the total possible number of points. Final grades will be determined using the scale below:

A → 93% and above	A- → 90 - 93%	
B+ → 87 - 89%	B → 83 - 86%	B- → 80 - 82%
C+ → 77 - 79%	C → 73 - 76%	C- → 70 - 72%
D+ → 67 - 69%	D → 63 - 66%	D- → 60 - 62%

EXTRA CREDIT: There will be **no** "extra credit" assignments for this course.

NOTE: Attendance is required and will be taken for each class. An absence is excused **ONLY** for valid reasons (to be determined by the instructor) and if notification is given **PRIOR** to a missed class (via email, phone message – **not** word of mouth from another student). *****Also, if you miss a class it is YOUR responsibility to get the class notes (from another student) and BE PREPARED for the next class meeting (this includes taking the scheduled quizzes).*****

HOMEWORK AND QUIZZES: Homework will be assigned on a regular basis and it is expected that you complete the assigned problems by the due date on the assignment. Your weekly quizzes will be testing the concepts emphasized from class that week and these homework assignments. We will have at least 13 quizzes throughout the semester. I will count your top 10 scores. There are **NO** make-ups for missed quizzes. Our expectation is that you are spending 2-3 hours of reading and doing homework for this class for every one hour we meet in class. So, you should expect to spend *at least* 6-9 hours per week on this class, every week!

EXAMS: You will have three in-class exams and one final exam. Exams are scheduled for the following dates: **Exam 1: Monday 9/27/10, Exam 2: Wednesday 11/03/10, Exam 3: Monday 12/06/10.** This may change (but hopefully not), depending on how we are doing. Make-ups for exams will be given only in **EXTREME** circumstances and if **PREVIOUS** arrangements are made. No exam will be administered prior to the date/time of the scheduled exam and **if you miss an exam, you will receive a grade of 0 (zero).**

ACADEMIC DISHONESTY: Academic integrity is essential in all aspects of college coursework and learning. I have zero tolerance for academic dishonesty. It is expected that **YOU** complete all your assigned homework/labs. Communication or collaboration of ANY sort is **ABSOLUTELY PROHIBITED** during any quiz or exam. Academic Misconduct is punishable in a number of ways, including a score of a zero on the assignment where the cheating took place, a grade of an F in the course and/or possible censure on your permanent record. All cases of academic dishonesty will be referred to the Academic Honor Council. Do not let yourself come under the suspicion of academic dishonesty.

RETENTION OF PAPERS: Students are expected to retain all graded work until final grades are received.

COURSE OBJECTIVES: The objective of this course is to provide you with a basic understanding of statistical concepts. You will learn how to organize and analyze data, design samples, compute and analyze correlation and regression lines, compute and analyze confidence intervals and perform hypothesis tests. Emphasis is placed on the **analysis**, not just the computations.

ACCOMMODATIONS: Students with learning disabilities should contact the Learning Specialist, Chris Scarborough at 860-892-5751 or cscarborough@trcc.commnet.edu as soon as possible to ensure timely accommodations. Students with physical disabilities should contact Judy Hilburger at 860-383-5420 or via email at jhilburger@trcc.commnet.edu or Matt Liscum at 860-383-5420 or via email at mliscum@trcc.commnet.edu to facilitate accommodations.

CELL PHONE POLICY: All cell phones must be turned OFF or MUTED before entering the classroom and properly placed in a bag or pocket (not left on a desk). Any cell phone ringing or beeping during a class is inappropriate and unacceptable. Texting during class is also inappropriate and will not be tolerated. Students found texting in class will be asked to leave and will lose their attendance points for that class period.

****The key to success in this course is to attend every class and do all the homework when it is assigned. Ask questions when you have them, either in class or in my office. You will find it much easier to learn the new topics if you consistently keep up with the course material and homework problems!****

**TENTATIVE SYLLABUS MAT K167
FALL 2010**

<u>Week of:</u>	<u>Chapter(s):</u>	<u>Topics Covered:</u>
8/30	1.1 – 1.5	Statistical Thinking, Types of Data, Collecting Sample Data, Quiz #1
9/6	2.1 – 2.3	No Classes Monday, September 6 – Happy Labor Day! Frequency Distributions & Histograms, Quiz #2
9/13	2.4, 2.5, 3.1 – 3.3	Statistical Graphs, Measures of Center & Variation, Quiz #3
9/20	3.4	Measures of Relative Standing, Boxplots, Catch-up, Review, Quiz #4
9/27	4.1 – 4.3	Exam #1 – Monday 9/27 Basic Concepts of Probability, Addition Rule
10/4	4.3 – 4.5	Review, Multiplication Rule, Quiz #5
10/11	4.7, 5.1, 5.2	Counting, Random Variables, Quiz #6
10/18	5.3, 5.4, 6.1, 6.2	Binomial Distribution, Standard Normal Distribution, Quiz #7
10/25	6.3 – 6.5	Applications of the Normal Distribution, Sampling Distributions, Quiz #8
11/1		Catch-up, Review, Exam #2 – Wednesday 11/3
11/8	7.1, 7.3, 7.4, 8.1, 8.2	Estimating a Population Mean, σ Known vs. σ Unknown, Basics of Hypothesis Testing, Quiz #9
11/15	8.2, 8.4, 8.5	Testing a Claim About a Mean σ Known vs. σ Unknown, Quiz #10
11/22	7.2, 8.3	Estimating a Population Proportion, testing a Claim About a Population Proportion, Supplemental Session 11/24, Quiz #11
11/29	9.1 – 9.4	Inference About Two Population Proportions, Inference About Two Population Mean – Independent vs. Dependent Samples, Quiz #12
12/06	10.1 – 10.3	Exam #3 – Monday 12/6 Correlation, Regression
12/13		Catch-up, Review, Quiz #13

The instructor has the right to change/modify this syllabus at any time with proper notification to the class