Math 34 Probability and Statistics (4 Units) – Fall 2013

Instructor: Jill De Stefano Rm 9A at Brentwood Center 439 – 2181 Ext: 6212
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Office Hours:
Mondays and Wednesdays: 12 – 1
Tuesdays and Thursdays: 12:30 – 2

Jill's Math Lab Hours:
Mondays and Wednesdays: 11 – 12, 1 – 3:30
Tuesdays: 11 – 12:30, 3 – 5
Thursdays: 11 – 12:30
Fridays: 10 – 12

Course Description: A first course in statistics with an introduction to descriptive statistics (measures of central tendency, dispersion, and correlation connected to standard graphical representations of data distributions), sampling design for reliable data production via experiments and surveys, tests of significance and confidence intervals, probability as it relates to inference. Use of a graphing calculator required.

Required Materials: MyStatLab Access, Statistics calculator (TI83+ recommended), pencil, and eraser.

MyStatLab access is available for purchase in three ways:
1. Bundled with the textbook at the LMC Bookstore
2. Sold separately at the LMC Bookstore
3. Online at MyStatLab.com

Optional Materials: *Elementary Statistics* California Edition, 2nd edition by Mario F. Triola, graph paper, ruler

Notes: An outline for each section covered in class is available online through MyMathLab under "Course Tools" and "Document Sharing." It is the student's responsibility to print out the note outlines for each day's lesson and bring them to class. All definitions and examples from each lecture are contained in the notes. It is recommended that students take notes directly onto the outline. Be sure to refer to the class schedule to make sure you bring the correct section notes each day. I recommend keeping all notes in a 3-ringed binder for easy reference.

Homework: Homework assignments will be assigned for each class lecture. Exercises from each section will be assigned online through MyMathLab. Each assignment is due the day of the next class meeting at 9 am. Although it is not collected, I highly recommend keeping a spiral notebook with all of your work from each homework problem. This will be a very helpful study aide. Each assignment will have a grace period of one day. The score for any assignment submitted during the grace period will be reduced by 20%.

Lab Exercises: Lab Exercises reviewing the topics covered in class will be assigned and collected once each week. Lab assignments are due at 9am, and will be considered late after 9:05. These assignments will be graded for accuracy, completeness, and clarity. Credit for these assignments can only be earned by completing the assigned work and also fulfilling your required math lab hours (at least 34 hours per semester). Completing an assignment without completing your required hours will result in zero points on that assignment.

Quizzes: Quizzes will be given once each week during the first ten minutes of class. You will be asked to complete exercises that are similar to those on the lab assignment from the previous class. You may use your notes and lab assignments when working on the quiz. There are **no makeup quizzes**. Your three lowest quiz scores will be dropped when calculating your total quiz score at the end of the semester.

Exams: There will be 5 exams, each covering two or three chapters. Extra Credit practice tests will be available on MyStatLab prior to each exam. A comprehensive final exam will also be given. **There are no makeup exams**.

Project: Groups of two or three students will complete a Statistics project on the topic of their choice. This project will allow students to demonstrate their understanding of and their ability to use statistics in every day life. More information on the project will be provided later in the semester.

Math Lab:
When you enrolled in this course, you enrolled for four hours per week in the classroom, and two hours per week "by arrangement." The "by arrangement" hours are to be spent in the math lab and are mandatory. Each student will be required to pick a day and time to schedule his/her math lab hours. The purpose of these math lab hours is for you to enhance your ability to problem solve, break through mathematical misconceptions, and understand concepts at a deeper level. There is a Math Lab at the Brentwood campus (Room 15) and one at the Pittsburg campus (MA 102).

Make sure to sign in each time you visit the lab. You will need your student ID #. This is the only way that I will know how many hours you do spend in the lab. If you are spending more than three hours at a time in the math lab, you must sign out and then sign back in or you will only receive credit for one hours.

Brentwood Math Lab Hours: Monday through Thursday: 8:30 am – 7 pm
Fridays: 10 am – 2 pm

Grading Summary:

MyMathLab Homework:	10%
Lab Assignments:	15%
Quizzes:	5%
Exams (5 @ 8% each):	40%
Project	10%
Final Exam:	20%
Total	100%

Grading policy:

A.....90-100%
B.....80-89%
C.....70-79%
D.....60-69%
F.....below 60%

Student Responsibilities:

1. Attend each class session.
2. Monitor own progress and understanding.
2. Keep up with all assignments and lectures
3. See me with any questions that may arise.
4. If you are confused, just say so.
5. Try to get the most out of your learning experience
6. Relax, make some new friends, enjoy yourself.

Accommodations : Students with documented learning and/or physical disabilities may receive reasonable classroom testing accommodations. Please make these arrangements with the instructor during office hours at the beginning of the semester or as soon as possible after documentation has been determined. Last minute requests may not be determined to be "reasonable."

Classroom Policies:

1. Cell phones and other electronic devices (PDA's, Ipods, etc) are not allowed at any time. Please turn off cell phones before entering the classroom. You MAY NOT use your cell phone as a calculator.
2. The only items allowed on your desk are your notebook, calculator, and textbook.
3. Please be respectful to your classmates and your instructor.
4. Cheating (including copying of work) will not be tolerated, and will result in a zero for that assignment.

Each class session will be a combination of lecture, discussion, and lab practice. I hope to make the material in this course understandable, as well as make this class enjoyable. If you have any questions, please feel free to come by and see me at any time. Have fun!

Testing Policy:

a. You may not leave the classroom until you have turned in your exam. Be sure to use the restroom before you begin the exam.

b. If you speak to any classmates during the exam, I will immediately collect your test and ask you to leave. If you finish before a classmate, please do not attempt to talk to your friends before you leave.

c. I allow unlimited time on exams, but **only** if you begin the exam on time. If you arrive more than ten minutes after the exam has begun, you must submit your exam by the end of the regular class period.

d. If necessary, you may ask for clarification on any exam question. This includes questions regarding unclear print, wording, etc. You may not ask for help regarding any of your work.

e. Cell phones are not allowed at any time. If I see or hear your phone during the exam, I will immediately collect your exam, and you will be asked to leave the room.

f. The only items you should bring to class on exam days are:
    a. Any labs to be turned in at the beginning of class.
    b. Your graphing calculator.
    c. Your pencil
    d. Your eraser
    e. All other belongings must be placed on the floor at the front of the room.

Course-Level Student Learning Outcomes (CSLOs):

CSLO 1: Based on statistical reasoning and supported by critical thinking, students should be able to read and critique simple statistics-based studies in order to make an informed judgment on the reliability of the statistical presentation or argument.

CSLO 2: Students should be able to apply the basic principles of study design to develop and analyze the validity of simple experiments and sampling plans related to a given situation and goal.

CSLO 3: Students will be able to examine raw data using graphical, tabular, and analytical exploratory tools in order to investigate and describe patterns in data with the goal of describing shape, center, and spread within a quantitative data set, making comparisons among data sets, and looking for relationships between data sets.

CSLO 4: Students will analyze data to identify an appropriate statistical model, use technology to perform statistical tests or find confidence intervals, explain the concepts underlying inference, and interpret results in a context. Students will also use correlation coefficients and scatterplots to determine if a linear regression model is appropriate, then find, use, and interpret linear regression models when appropriate.

CSLO 5: Students will be able to explain in layman's terms how variability and probability are connected to statistical inference, as well as be able to interpret and apply basic laws and concepts of probability to sampling distributions.