Math 227
Class Syllabus Fall 2012

Course: Math 227 Statistics
Ticket Number 3242; Monday and Wednesday 4:35 PM– 6:40 PM, Center for Mathematics and Science (CMS) 021

Instructor: Ralph (Randy) Ades
Office Hours: Monday and Wednesday 3:55 PM-4:25 PM or by appointment
Office: Center for Mathematics and Science 121) or CMS 121
Phone: 4900 (from off-campus)
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Textbook: Elementary Statistics; A Brief Version, 6th edition, by Alan G. Bluman

Tools: You will need a scientific calculator with statistical functions. I recommend the TI 30 XIIS. This is a cheap an easy to calculator.

Prerequisite: Math 125 with a grade of "C" or better or appropriate skill level demonstrated through the Mathematics assessment processes.

Important Dates:

August 27;	Classes Begin;
September 3;	Memorial Day; College Closed
September 7;	Last day to Add a Class Spring 2012
September 7;	Last day to apply for refund
September 7;	Last day to drop a class (in person) without a 'W', no refund.
September 9;	Last Day to drop on line.
October 5;	Last day to file petition for Credit/No Credit
November 2;	Last day to process a section transfer
November 12;	Veteran's Day ; College Closed
November 16;	Last day to drop a class in person with a "W"
November 18;	Last day to drop on line with a "W"
November 22-25;	Thanksgiving Holiday; College Closed.
Final Exam Comprehensive :	Monday, December 10, 2012 from 5:30 PM to 7:30 PM

Course Description: We will cover the following topics:

- Chapter 1: The Nature of Probability and Statistics
- Chapter 2: Frequency Distribution and Graphs
- Chapter 3: Data Description
- Chapter 4: Probability and Counting Rules
- Chapter 5: Discrete Probability Distributions
- Chapter 6: Normal Distribution
- Chapter 7: Confidence Intervals and Sample Size
- Chapter 8: Hypothesis Testing
- Chapter 10: Correlation and Regression
- Chapter 9 Hypothesis Testing with Two Parameters
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Course Objectives: This course is an introduction of basic statistical concepts and techniques, which includes descriptive and inferential statistics, construction of statistical tables, display data with statistical graphs, correlation and regression, probability, statistical distributions, central limit theory, testing hypotheses & confidence interval of a single population for the population mean or population proportion.

Minitab is used throughout the course to present graphs, to solve exercises, to perform a simulation, and to interpret & analyze application problems.

Student Learning Outcomes:

1. Use probability concepts to solve problems and interpret their results.
2. Demonstrate proficiency in descriptive statistics and inferential analyses to draw conclusions about a population.

Homework

Homework assignment will be assigned at the start of each week (Monday). All homework assignments will be due the following Monday except when that Monday is a holiday, then the homework will be due on Wednesday, Work **MUST** be shown and no credit will be given for a list of answers. Late homework will not be accepted.

Exams

- There will be four classroom tests and one lab test. If the final examination score is higher than the lowest score of all tests, its percentage score will be used to replace the lowest test score. There will be **no make-up** examinations.
- There will be one computer-based exam covering all the lab materials.
- A comprehensive final exam will be given on **Monday, December 10.**There are **no make-ups** for the final and all students must take the final exam.
- All tests will be based on examples worked in class, assigned homework, and computer printout analysis.

Grading:

HW	15%
Tests	50%
Computer Test	10%
Final	25%

Grading Scale: Letter grades will be determined by your overall percentage in the course:

- A = 90%-100%
- B = 80%-89.9%
- C = 70%-79.9%
- D = 60%-69.9%
- F = 0%-59.9%

Attendance:

Students are expected to attend all class meetings. Unexcused absences of six meetings may result in excluding students from class. Students themselves are responsible for dropping a class they no longer attend; failure to do so may result in a grade of F.

Course Organization: The course will follow the attached course schedule as closely as possible.

Tutorial: Drop-in tutoring is available at the Center for Mathematics and Sciences 121

Class comportment:

All students are expected to arrive on time. Late arrivals are disruptive to both the lecturer and students. Once you are seated, do not leave the room until dismissed. Such comings and goings are also disruptive. Students must turn off cell phones while in class. Students are encouraged to ask questions and make comments on the lecture material. This should be done in a courteous manner by raising one's hand and being recognized. Side conversations between students that disrupt the flow of the lecture will not be tolerated. It is the student's responsibility to manage his or her academic workload. Should a student decide to stop attending class it is their responsibility to drop the class. All students appearing on the grade roster will receive a grade regardless of whether they are attending classes or not.

How to maintain "A" Everyone starts the class with an "A", so how do you keep it? First, it is very important to attend all class lectures. Second, in order to be good at math it takes practice, practice, and practice. This means you should do all of your homework and understand.

Math 227 Elementary Statistics Tentative Schedule

Date	**Monday**	**Wednesday**
Aug 27/ Aug 29	Orientation, Chapter 1	Ch. 2.1-2.3
Sept 3/ Sept 5	**Holiday**	2.3-2.4
Sept 10/ Sept 12	3.1, Review	**Exam 1 Chapters 1-2, 3.1**
Sept 17/ Sept 19	Chapter 3.1-3.2	Chapter 3.3-3.4
Sept 24/ Sept 26	**Lab 1 (Chapter 2,3)**	Chapter 4.1-4.2
Oct 1/Oct 3	Chapter 4.3-4.4	Chapter 4.5, Review
Oct 8/ Oct 10	**Exam 2 (Chapter 3,4)**	Chapter 5.1-5.2
Oct 15/ Oct 17	Chapter 5.3, 6.1	Chapter 6.2-6.3
Oct 22/ Oct 24	Chapters 6.3-6.4	Review
Oct 29/Oct 31	**Exam 3: Ch 5-6**	**Lab 2 : Ch 5-6**
Nov 5/Nov 7	Chapters 7.1-7.2	Chapters 7.3-8.1

Nov 12// Nov 14	**Holiday**	Chapters 8.1-8.2
Nov 19 / Nov 21	8.3-8.4	8.4 Review
Nov 26/ Nov 28	**Exam 4 (Chapter 7 & 8)**	**Lab III** (Ch 7, 8)
Dec 3/Dec 5	10.1-10.2	**Final Review**
Dec 10	**Final Exam**	