

MATH 1530-41 Elements of Statistics Fall 2006
1:25 – 2:20 MWF CX 116

Instructor: Dr. Samuel Jator

Communications

- I invite you to come by my office (CX 329 A) as follows: **9:00-11:00 MWF; 10:00-11:00 and 1:00-2:00 TuTh.**
- By phone, dial 931-221-7313(Office) or 931-358-9433(Home).
- My email address is Jators@apsu.edu.
- You can also visit my web site at <http://www.apsu.edu/Jators>.

Prerequisites: High School Algebra

Credit: 3 Credit Hours

Text: Elementary Statistics, Sixth Edition, Neil Weiss, 2005.

Additional Resources

You can access Mymathlab using the following: www.coursecompass.com

Course ID: Jator64130

- You can purchase MyMathLab Student Access Kit. One may purchase it from Austin Peay Book and Supply Store free of charge if bundled with the textbook. ***MyMathLab will be used for homework and quizzes.***

Course Description

Measures of central tendency and dispersion for descriptive statistics, estimation of confidence intervals for means and proportions, probability distribution, hypothesis testing, analysis of variance, the least squares method, and correlation analysis.

Course Objectives

- To study how to apply statistics in various fields of human endeavor.
- To study how to use probability in decision-making.
- To study how to collect, manage and analyze data.
- To study how to interpret data.
- To study how to analyze data using statistical software.
- To study how to use descriptive statistics with confidence interval and hypotheses testing.

Course Contents

- Nature of Statistics (chapter 1)
- Organizing Data (chapter 2)
- Descriptive Measures (chapter 3)
- Descriptive Methods in regression and Correlation (chapter 4)
- Probability and random variables (chapter 5)
- The Normal Distribution (chapter 6)
- The Sampling Distribution of the Sample Mean (chapter 7)
- Confidence Interval for one Population Mean (chapter 8)
- Hypothesis Tests for one Population mean (chapter 9)
- Inferences for two Population Means (chapter 10)
- Inferences for Population Proportions (chapter 11)
- Chi-Square Procedures (chapter 12)

Calculator Requirement

The suggested calculator is the TI-83 or the TI-84.

Course Software

The software used for this course will be Minitab Release 14.

Requirements/Grading

Project/Homework: Minitab project will be worth 100 points. Regular homework assignments and quizzes will be given and will count 100 points toward the final grade. Late submission of required homework to be graded will be unacceptable. Poor presentation of the assignments will be penalized in points.

Examinations: There will be four examinations. Three of them will be announced in class and each will have a weight of 100 points. The last examination that will be partially comprehensive will be taken during the examination week in December. Each examination is focused on the material covered since the previous one, but may include questions about supporting materials from previous sections in the course. The total score for the activities will be 600 points, and will be converted to reflect the grading scale shown below.

Make Up Tests: A make up test will be given only when a documented evidence justifying the reason for missing a test is provided. Make up tests are generally more difficult than the regular in class tests. There is no make up for the quizzes and they cannot be taken early.

Summary:

The above activities can be summarized as follows:

Test 1	100
Test 2	100
Test 3.....	100
Homework/Quizzes...	100
Project	100
Final Exam	100
Total	600

How Points and Percentages Equate to Letter Grades

90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

Note: *A mid-term grade will be awarded for all students in this course. The grade awarded may not necessarily be based on 50% of the course requirements and may or may not differ from the final grade. Your mid-term grade will be posted on AP Web on October 24, 2006.*

Attendance

Regular attendance is expected. Unavoidable absences that might be due to illness must be proven with a medical report. Students are strongly discouraged from irregular attendance that will normally lead to poor performance in the course.

Disability

Students with disabilities are encouraged to consult the office of disability. I will respect all university policies for students under this category. The telephone number for the Office of Disability Services is 221-6230.

Cell Phones

In order to be fair to other students, please turn off your cell phones before entering class.

University Policy on Minors

According to APSU policy #3:032, minors (defined as those under the age of 18) are not allowed in classrooms. For additional information on minors on campus, contact the Office of Student Affairs in the Morgan University Center.

Withdrawing From Class

My policy is to grant W's to those students who withdraw officially on or before the date listed in the university calendar as the last day to drop a class with a "W" or "F".

Academic and Classroom Misconduct:

Students are expected to conduct themselves appropriately at all times. Academic and classroom misconduct will not be tolerated. Students must read the "Code of Student Conduct" in the new Student Handbook for an understanding of what will be expected of them within the academic setting.

Caveat: ("The above schedule and procedures are subject to change in the event of extenuating circumstances.").

Tentative Schedule for Fall 2006- Math 1530

Week	Chapter in Text
8/28-9/1	1
9/4-9/8	2
9/11-9/15	3 & 4
9/18-9/22	Test 1 (chapters 1, 2, 3, 4)
9/25-9/29	5
10/2-10/6	6
10/9-10/13	7
10/16-10/20	8
10/23-10/27	Test 2 (chapters 5, 6, 7, 8)
10/30-11/3	9
11/6-11/10	10
11/13-11/17	11
11/20-11/24	12
11/27-12/1	Test 3 (chapters 9, 10, 11, 12)
12/4-12/6	Review
12/7	Study day
12/08	Final exams