Clarendon College
Course Syllabus

MATH 1342 – Statistical Methods
Clarendon, Texas

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*It is much better to email me than to call me.

Office Hours: MWF 7:00-8:00am
MW 12:00-1:00
Th 3:00-5:00
F 11:00-12:00

Text: Elementary Statistics, 4rd Edition
Larson, Farber 2009, Prentice Hall

Supplies: Paper and Pencil, Scientific Calculator. **Note: you may not share calculators.** Internet access and a MathXL account. (See below)

Purpose of the Course: Elementary Statistics partially satisfies the requirements for the Associates Degree at Clarendon College and is designed for transfer to a senior college.

Course Description: Methods of collecting, analyzing, presenting, and interpreting numerical data for business purposes. General applications of statistical principles.
Prerequisites: MATH 1324, COSC 1401, or consent of instructor.

Exemplary Objectives: The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real world problems.

1. To apply arithmetic, algebraic, geometric, higher-order thinking and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and inferences from them.
6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture and understand its connections to other disciplines.

Course Objectives:

Upon successful completion of Statistical Methods students should be able to

1. Recognize and examine the basic principles of describing data.
2. Examine and analyze various sampling distributions.
3. Perform hypothesis testing using statistical methods.
4. Solve linear regression and correlation problems.
5. Examine the role of probability in statistics.

Methods of Instruction:

1. Reading assignments.
2. Lecture with discussion and examples.
3. Problem assignment.
4. Discussion of problems.

Grading Policies:

All assignments must be completed on MathXL at *www.mathxl.com***.** All homework, quizzes, and exams are on MathXL. The MathXL course ID's for this class is:

XL0U-N1UL-901Y-9EY2

Daily work: 30% There will be one homework assignment per week, covering material from two weeks prior. That is, you will have a week to complete each homework assignment from the time I finish lecturing on the material in it. I will drop the lowest homework assignment.

Quizzes: 5% There will be a quiz on the due date of each homework assignment, covering its material. **The goal of a quiz is to help you see how well you're understanding the material.** If you are not doing well on the quizzes, please come and ask for help in office hours. Otherwise, you are not likely to do well on the midterms. I reserve the right to give pop quizzes. I will drop the lowest quiz.

Midterms: 30% There will be three midterms. I will reverse replace midterm grades, so that a midterm can replace the immediately prior midterm if the grade is higher. For example, if a student scores higher on the second midterm than the first, I will replace the first midterm's grade with the second. Also, if a student scores higher on the final than on the third midterm, then I will replace the third midterm's grade with the grade of the final.

Long story short, if you do poorly on one midterm, working hard and doing better on the next midterm will allow you to drop the poor midterm grade.

Final: 35% The final is comprehensive.

For those of you who like formulas, the above says that your numerical grade will be computed using the formula

Your grade = .3 (HW ave) + .05 (Quiz ave) +
.30 (max{MT1, MT2} + max{MT2, MT3} + max{MT3, Final}) / 3 +
.35 (Final).

Grading Scale:

89.5-100	A
79.5-89.49	B
69.5-79.49	C
59.5-69.49	D
<59.5	F

All work is to be turned in on time. If you know that you are going to be absent on a certain day (for an athletic event, wedding, or whatever), turn in homework assignments before leaving, and arrange with me concerning quizzes and midterms. **Late work is not accepted.** (Part of the reason that I drop the lowest h/w, the lowest quiz, and reverse replace midterms is to not penalize unexpected absences due to illness, being in jail, etc.)

Student Academic Integrity:

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to:

(1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion;
(2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given
(3) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment;
(4) entering an office or building to obtain unfair advantage;
(5) taking an examination for another person;
(6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person;
(7) altering grade records;
(8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise;
(9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved. Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

Classroom Policies:

1. Final Exams: Students must take a final exam for each of their academic courses. The schedule of final exams times is published at the beginning of the semester. Do not make plans to leave school before your scheduled final exam. I will not give any early finals except in extreme emergencies after students have provided documentation of said emergency.

2. Scholastic Honesty: I adhere to a strict policy regarding academic honesty. Anyone who is dishonest in any way will receive a zero on that assignment or exam with no opportunity to make up the zero and may be dropped from the course with a grade of F. That student, if allowed to remain in the course, will not be allowed to receive any extra credit points from the time of the infraction through the remainder of the course. Furthermore, that student will not be allowed to drop their lowest quiz grade or exam grade. A second act of dishonesty will result in an F for the course. Students who commit an act of academic dishonesty will not be allowed to withdraw from the course with a "W." Note that dishonest behavior includes both the act of copying someone else's work as well as allowing someone to copy your work. Both students are equally guilty and will be equally punished.

3. Electronic Communication/Entertainment Devices: The use of cell phones, iPods, or other electronic communication or entertainment devices is prohibited. A first offense will result in confiscation of the device for one day. A second offense will result in loss of the device for one week. A third offense will result in loss of the device for the remainder of the semester.

4. No food, alcohol, or tobacco in the classroom: Clarendon is a tobacco-free campus, so do not chew during class. Also, the presence of food is distracting to other students.

5. Be respectful: Arrive on time. Don't leave during class. Stay awake during class. Participate in classroom activities and discussions. Do not use profane or inappropriate gestures and/or language.

6. Withdrawal: If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a "W" on your transcript instead.

Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of "F" on your transcript. A student is permitted to drop a course if he/she obtains an official drop slip from the office and has the instructor sign the slip before the 12th class week. **Remember, a student is only allowed to drop the same class twice before he/she will be charged up to triple the tuition amount for taking the class a third time or more. Furthermore, beginning with the Fall 2007 semester, students in Texas may only drop a total of 6 courses throughout their entire undergraduate career. After the 6, he/she will no longer be able to withdraw from any classes.** If you think you need to drop this course, please talk with me about it first. It is possible that there is something you can do to still pass the course. Don't hurt your chances for a passing grade in the course by not attending labs or taking exams before we have discussed you situation. **The last day to withdraw from the course with a "W" is April 13th.**

American with Disabilities Act Statement: Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, it is your responsibility to notify the Office of Student Services (806-874-3571). We will then work with you to make whatever accommodations we need to make.

Important Dates:

January 27th	Last day to Register and/or Add/drop
March 12th - 16th	Spring Break
April 6th - 9th	Easter Break
April 13th	Last day to drop with a "W"
May 7th-10th	Final Exams

Course Outline:

Tentatively we will cover the entire book.