Math 1401: Elementary Statistics

COURSE INSTRUCTOR
Instructor: ABDELKADER AGOUN
Office: BOYD 111 C
Email: aagoun@westga.edu

OFFICE HOURS

Monday 9:50 AM -10:50 AM and 2:20 PM – 3:20 PM
Wednesday 2:20 PM -3:20 PM
Tuesday & Thursday (Newnan campus 9:55 AM -10 :55 AM Room 166)

Prerequisites: MATH 1101 or MATH 1111

Texts and Other Materials:

- Calculators: You are required to have a graphing calculator. I will be using a TI-83, but TI-85 and TI-86 are also acceptable. No cell phone allowed as a calculator during tests and final exam.

Courses Description: A noncalculus-based introduction to methods of descriptive statistics, probability, discrete and continuous distributions and other fundamental concepts of statistics.

Topics: Methods for describing sets of data, including descriptive statistics and histograms. Simple linear regression. Probability of discrete and continuous random variables, including the binomial and normal random variables. Sampling distributions, including the Central Limit Theorem, Hypothesis testing and Confidence intervals.
The following sections of the textbook will be covered:

1.2 Introduction to Statistics

1.3 Gathering Data

2.1 Graphs and Tables for Categorical Data

2.2 Graphs and Tables for Quantitative Data

2.3 Further Graphs and Tables for Quantitative Data

3.1 Measures of Center

3.2 Measures of Variability

3.4 Measures of Relative Position and Outliers

3.5 Five-Number Summary and Boxplots

4.1 Scatterplots and Correlation 4.2 Introduction to Regression

5.1 Introducing Probability

5.2 Combining Events

5.3 Conditional Probability

5.4 Counting Methods

6.1 Discrete Random Variables

6.2 Binomial Probability Distribution

6.4 Continuous Random Variables and the Normal Probability Distribution

6.5 Applications of Normal Distribution

6.6 Normal Approximation to the Binomial Distribution

7.1 Central Limit Theorem for Means

7.2 Central Limit Theorem for Proportions

8.1 Z Interval for the Population Mean
**Learning Outcomes:** Upon successful completion of this course, the students will know how to properly collect data, how to describe and analyze that data, and make inferences about the population under study based on the sample data collected. The students will also be aware of and able to interpret the statistics with which we are bombarded on a daily basis in the print media, on radio, and on television, to help make informed decisions about their lives.

**Testing /Make-up Policy**

You must complete each test within the time allowed during the class period. Every test score will be used in computation of your progress test average.

If you have an excuse absence for one progress test, the next test score will replace the missing test. If you do not request an excuse absence for a missed test, or your request is denied you will received a zero on that test.

**Email:** If using email, you must use your university email (@westga.edu) for any communication; also check your university email account for any announcement regarding the class. I will not respond to any non-university emails.

**IMPORTANT DATES:**

- **First Day of Class:** Wednesday, August 14
- **Drop Ends:** Tuesday, August 20
- **Last Day to Withdrawal with W:** Wednesday, October 9
- **Last Day of Class:** Friday, December 6
- **Final Exam Period:** December 7-13 (see The Scoop for specific times)

**Homework/Hand-out:**

Have your homework assigned to you by the instructor in an organized binder to be collected for a grade on the day of the Final. Students who do not complete homework, do not perform well on quizzes and exams.

**ASSESSMENT GRADING:**

- 4 Progress Tests: 60%
- Homework /Projects / Hand out Worksheets: 15%
- Comprehensive Final Exam: 25%
Grading Scale: EXAMPLE BELOW
90% - 100%: A
80% - 89%: B
70% - 79%: C
60% - 69%: D
<60%: F

COURSE POLICIES AND INFORMATION

University Policies and Academic Support
Please carefully review the following Common Language for all university course syllabi at the link:

http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

Disabilities Act/Accessibility for the Course
If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content.
Please contact UWG Accessibility Services for more information.

Student Conduct
Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom.
To create a good environment for learning avoid sidebar conversations with other students while work is being done at the board, rude comments or remarks, raised voices or confrontational comments.
If your actions in class are deemed by your instructor to be disruptive, sleep during class, you will be asked to leave the class immediately. If you are ever asked to leave the class
you might be permitted to return to future class meetings after consultation with your instructor outside of the class.

**Attendance:** Attendance will be taken but not used as a grade.

*Students are expected to come to class and be “present”.*

*It is the student’s responsibility to catch-up on any missed material. You will not be permitted to have a copy of the instructor’s notes. It is your responsibility to find out any announcements/changes made during class.*

**Change in syllabus, schedule, and/or assignments for this class may be made at the discretion of your instructor**

**The final exam is on**

11:00-11:50 classes .........................Friday, Dec. 13, 11:00-1:00 pm

12:05-12:55 classes .........................Monday, Dec. 9, 11:00-1:00 pm

1:20-2:10 classes .........................Wednesday, Dec. 11, 11:00-1:00 pm