

University of West Georgia SPRING 2018

Course: Introductory Statistics MATH 2063 Section 02 3 credit hours

Course Description: A non-calculus based introductory statistics course in which descriptive statistics, probability, discrete and continuous distributions, hypotheses tests, and confidence intervals are studied. Basic coverage of regression, correlation, and proportions will be included.

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 media to make informed decisions about topics.

Prerequisites: MATH 1001 or MATH 1111 or MATH 1113

Instructor: Mr. Jim Bellon (best way to contact me is through CourseDen) or jbellon@westga.edu

Office & Hours: Boyd 104C Mon 10:30–11 am, Wed 10–11 am, 3:15-4:15pm, Fri 10:30–11 am
Boyd 205 (math tutoring center) Mon 3:30 – 4:30pm, other hours possible by appointment

Class Meets: MW 2 – 3:15pm in Anthropology Building room 12

Course Materials: A **graphing calculator is required**, must be one of the Texas Instruments **TI-83** or **TI-84 models**.

Textbook is optional: *Discovering Statistics by Daniel Larose, 2nd edition, Freeman Publishers.*
There will be notes provided for the lectures for you to follow along with.

Grading: There will be a midterm exam (20%), a final exam (20%), quizzes (lowest 1 dropped, avg counts 25%), case-study sections (avg counts 20%), a case-study final report (15%)

Final grades determined as follows:

89.1 % and higher	=	A
79.3 % to 89.0 %	=	B
69.5 % to 79.2 %	=	C
60 % to 69.4 %	=	D
Below 60 %	=	F

Case-Study: You will select a topic and collect data. As we learn the different tools of statistics in each chapter, you will apply what you have learned to your data/topic and periodically submit your results in sections. I will grade these and give you feedback. Then you will make any adjustments and submit the final report at the end of the semester. You will submit your work as a word document or convert into a PDF. However, it must be neat. If I can't read it, I can't grade it or at best, it will be a low grade. You may do the case study by yourself or pair up with ONE other person.

Last Date to Withdraw: ***Wed February 28th*** Any student who withdraws after this date will receive a grade of "F".

Attendance Policy: Students are expected to attend class and pay attention to CourseDen calendar and due dates. **You will be allowed TWO absences.** For every absence beyond that, your overall course grade will be lowered by 5%. Students are responsible for the topics covered and assignments due whether present or not. **“I was not here” is NOT a valid excuse.**

Make-up policy: Case study assignments, if handed in late, will receive a penalty of 20% for each class meeting it is late. Makeups for in class quizzes and exams may be granted with a VALID and documented excuse, but only if you contact me before or the same day as the assignment/exam.

Extra-credit policy: **There will be NO extra credit given, period!** Points can be earned only as stated above.

Class Rules: You are to turn off your cellular phone during the class. You are not allowed to use your phone as a calculator. Please respect your instructor and other students in the class. No talking or any distracting behavior. If you fall asleep in class, you will be asked to leave. It is expected that students be familiar with the Student Conduct Code, Disciplinary Procedures and Disciplinary Sanctions in the Student Handbook. Cheating and/or any conduct that disturbs the classroom, the instructor, or the students WILL NOT be tolerated!! Any serious violations will be reported; appropriate actions will be taken; and consequences will result. Please see the general policies for UWG at <https://www.westga.edu/UWGSyllabusPolicies>

**Meeting with:
Instructor** can be beneficial and is encouraged. Meeting should occur during the instructor's office hours, whenever possible. If these hours conflict with a student's schedule, then appointments should be made. The meeting time is not to be used for duplication of lectures that were missed; it is the student's responsibility to obtain and review lecture notes before consulting with the instructor. As your instructor, I am very concerned about the student's achievement and well-being and encourages anyone having difficulties with the course to contact me for extra help.

Note: If you have a documented disability, which will make it difficult for you to carry out the course work as I have outlined and / or if you need special accommodation or assistance due to disability, please contact me as soon as possible.

Math Tutoring: On Campus:
**Offered by the math Department in Boyd 205, you can just walk in and get help.
Hours are Mon/Tues/Wed/Thurs 9am-7pm, Fri 9am-3pm
There are 2-3 tutors on duty who will rotate between students.
There are also textbooks and computers to use while you are in the tutoring center.

** Offered by the Center for Academic Success in UCC building. You will be assigned a 1-1 personal tutor, or attend available drop in sessions.

This is a tentative schedule of assignments and topics to be covered in class sessions. Changes will be made as needed. Once we finish a section, we will immediately move along to the next section. It is recommended that you read over text sections or notes BEFORE we cover them in class. After we cover topics, you should complete assignments and do any extra practice or get help as needed. Don't wait until its too late (like after doing bad on a quiz).

1/8 – 1/10	Introduction. Chapter 1 Statistics and Collecting data – <u>All Sections</u>
1/15 – 1/17	Monday 1/15 MLK-DAY - No Class Quiz #1 – Chapter 1 on Wed 1/17 Start chapter 2 Describing data with graphs – <u>Sections 2.1 and 2.2</u>
1/22 – 1/24	Continue chapter 2 – <u>Sections 2.3 and 2.4</u> Case Study sec 1: data sheet due Mon 1/22 Quiz #2 – Chapter 2 on Wed 1/24 Start chapter 3 Describing data numerically – <u>Sections 3.1 and 3.2</u>
1/29 – 1/31	Continue chapter 3 – <u>Sections 3.3 to 3.6</u> Case Study sec 2: data summary due Mon 1/29
2/5 – 2/7	Quiz #3 – Chapter 3 on Mon 2/5 Case Study sec 3: statistics due Wed 2/7 Chapter 4 Correlation and Regression – <u>All Sections</u>
2/12 – 2/14	Quiz #4 – Chapter 4 on Mon 2/12 Start chapter 5 Probability – <u>Sections 5.1, 5.2, and 5.3</u>
2/19 – 2/21	Continue chapter 5 – <u>Section 5.4</u> Quiz #5 – Chapter 5 on Wed 2/21 Case Study sec 4: probability due Sun 2/25
2/26 – 2/28	Review for midterm Midterm Exam on Wednesday February 28th (chapters 1,2,3,4,5)
3/5 – 3/7	Chapter 6 probability distributions – <u>Sections 6.1, 6.2, 6.3, 6.4, and 6.5</u>
3/12 – 3/14	Finish chapter 6 – <u>Sections 6.6 and 6.7</u> Quiz #6 – Chapter 6 on Wed 3/14
3/19 – 3/21	SPRING BREAK
3/26 – 3/28	Chapter 7 – <u>Sections 7.1, 7.2 and 7.3</u> Case Study sec 5: normality due Sun 4/1
4/2 – 4/4	Quiz #7 – Chapter 7 on Mon 4/2 Chapter 8 confidence intervals – <u>Sections 8.1, 8.2, 8.3</u>
4/9 – 4/11	Quiz #8 – Chapter 8 on Mon 4/9 Case Study sec 6: intervals due Thu 4/12 Start chapter 9 hypothesis testing – <u>Sections 9.1, 9.2, 9.3</u>
4/16 – 4/18	Finish chapter 9 – <u>Sections 9.4, 9.5</u> Quiz #9 – Chapter 9 on Wed 4/18 Case Study sec 7: hypothesis tests due Sun 4/22 Start chapter 10 two-sample inference – <u>Section 10.1</u>
4/23 – 4/25	Finish chapter 10 – <u>Sections 10.2, 10.3</u> Quiz #10 – Chapter 10 on Wed 4/25 Case Study DRAFT REPORT due Thu 4/26
4/30	FINAL REVIEW Case Study FINAL REPORT due Mon 4/30

FINAL EXAM (chapters 6, 7, 8, 9, 10) on Monday May 7th 2 – 4pm in our classroom.