Department of STATISTICS George Washington University Syllabus INTRODUCTION TO BUSINESS AND ECONOMICS STATISTICS STAT1051 – Fall 2022 [08/29/22 - 12/12/22]

Credit Hour: 3

Course:	STAT 1051 – 11 (CRN: 78596)
	Monday, Wednesday, 11:10 AM- 12:25 PM
	Funger Hall (FNGR) Room 207
Instructor:	Hamid Semiyari, PhD
Office Hours:	Monday, Wednesday, 12:30–1:30 PM and by appointment
Office Location:	Rome 760
Contacts:	Hamidreza.Semiyari@gwu.edu
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TEXTBOOK & COURSE MATERIALS

Required Text: McClave, James T., Benson. P. G., and Sincich, T., *Statistics for Business and Economics*, 14th edition, Pearson Publishing.
Software: SPSS [Not required to purchase. Available in computer labs.]

Statistics for Business and Economics (library call number: HF1017.M36 2018) is available on reserve as part of the <u>Top Textbooks</u> program at GW Libraries. Top Textbooks can be checked out for three hours at a time, can be taken outside the library, and have no cost to use.

RESPECT FOR DIVERSITY

Respect for Diversity: It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups.

<u>SPECIAL REQUESTS FROM YOUR INSTRUCTOR</u>

Please

- Your emails must have your full name, course number (STAT1051) and a mention of the issue in the <u>SUBJECT line</u> of the email.
- Turn off your cell phones during the class.
- Do not engage in conversation with your neighbors while the instructor teaches.
- Do not disturb the class or your classmates.
- Avoid tardiness. Come to class on time and do not leave before the class ends.

COURSE DESCRIPTION

This is a general survey course in elementary statistics that will broadly cover descriptive statistics, probability, sampling, and inference, hypothesis testing and simple linear regression.

The goal of the course is for students to obtain a good basic understanding of statistics. The course covers Chapters 1 through 8 and 10 excluding "Optional" sections, in the textbook. STAT 1051, 1053, 1111, and 1127 are related in their subject matter, and credit for only one of the six may be applied toward a degree.

COURSE PREREQUISITE

High school algebra is essential.

LEARNING OUTCOMS

Students will learn to use a variety of fundamental statistical principles integrated with business, economic and social science applications. They will learn to analyze data using appropriate statistical techniques and to interpret the findings. Students will also learn the statistical/quantitative techniques necessary for further study in business, economics, and social sciences. More specifically, upon successful completion of this course, the student, among other skills, will be able to:

- 1. Describe the differences between the various types of data.
- 2. Apply various descriptive graphical techniques.
- 3. Calculate and interpret measurements of central tendency.
- 4. Describe the characteristics of discrete and continuous probability distributions.
- 5. Calculate the standardized values of a normal distribution.
- 6. Calculate estimates of population parameters using sample data.
- 7. Develop confidence interval
- 8. Determine sample size
- 9. Conduct hypothesis testing
- 10. Perform simple linear regression analysis and compute correlations using paired data.
- 11. Use software for statistical analysis
- 12. Use software for generating statistical graphs

AVERAGE MINIMUM AMOUNT OF LEARNING TIME EXPECTED PER WEEK

The University policy states:

In a 15-week semester, including exam week, students are expected to spend a minimum of 100 minutes of out-of-class work for every 50 minutes of direct instruction, for a minimum total of 2.5 hours a week. A 3-credit course should include 2.5 hours of direct instruction and a minimum of 5 hours of independent learning, totaling a minimum of 7.5 hours per week. More information about GW's credit hour policy can be found at:

provost.gwu.edu/policies- forms (webpage); or

provost.gwu.edu/files/downloads/Resources/Assignment-Credit-Hours-7-2016.pdf (form).

COURSE POLICIES

- Quizzes and exams are in-class tests; there will be no take-home tests. They are closed-• textbook and closed-note.
- There will be **no** make-up exam (*except for very special reasons*) or extra-credit assignments.
- Students must bring a calculator for quizzes and tests; sharing of calculators not allowed. Cell phones are not allowed during the quizzes and tests.
- Assignments will be discussed in the class well in advance, and students will be given ٠ sufficient time to complete them.
- Assignments submitted after the deadlines will not be accepted. •
- Incomplete: A grade of INCOMPLETE will ONLY be given to a student who is *passing* the • course and cannot complete the course due to well documented circumstances beyond their control. University policies on teaching are available at http://www.gwu.edu/~academic/Teaching/main.htm
- Email: The instructor will try to respond to emails sent during normal business hours on • Monday-Thursday and by Friday within 24 hours. Email sent at night will be considered to have arrived the following morning and email sent over the weekend will be considered as arriving on Monday morning.
- There will be absolutely no tolerance of dishonest conduct during the exams, and severe • measures will be taken against dishonest conduct. University academic honesty policies will be enforced – check www.gwu.edu
- Religious Holidays: Students can take religious holidays off. •
- Courtesy rules: No cell phone calls; please turn off your cell phones during class sessions. • No consumption of food is allowed; drinks are allowed when consumed in a quiet manner.
- [NOTE: for university policies on teaching, see http://www.gwu.edu/~academic/Teaching/main.htm]

IMPORTANT DAYS			
Classes Begin	Monday, August 29		
Labor Day (no classes)	Monday, September 5		
Fall Break (no classes)	Monday, October 24 - Tuesday, October 25		
Thanksgiving Break (no classes)	Wednesday, November 23 - Saturday, November 26		
Last Day of Classes	Monday, December 12		
Final Examinations	Wednesday, December 14 - Thursday, December 22		

COURSE REQUIREMENTS

There will be **ten quizzes**. The highest seven scores will be counted toward your overall quiz score. **There will be no quiz makeup**. We will have a quiz each week (on Wednesday). You do not have a quiz during the first week of the class, the Fall and, the Thanksgiving breaks

Specific homework problems will be assigned from each chapter. Must practice all the solved examples in the chapters sections covered in the class. No late assignments will be accepted under any circumstances.

There will be In-Class Midterm and In-Class Final

GRADING POLICY

- •Quizzes: 30% •Mid-Term: 20%
- Final Exam: 20% Homework Assignments: 30%

GRADING SCALE

- A = 94-100%; A- = 90-93%;
- B + = 87-89%; B = 83-86%; B = 80-82%;
- C + = 77-79%; C = 73-76%; C = 70-72%;
- D+=67-69%; D=63-66%; D-=60-62%;
- F <60%

EXAM SCHEDULE

- Midterm Exam: Wednesday, October 12, 2022 (Tentative)
- Final Exam Date: To be announced by the University.

AS PER UNIVERSITY POLICY, THE FINAL EXAM WILL BE GIVEN DURING THE FINAL EXAM PERIOD AND NOT THE LAST WEEK OF THE SEMESTER

INCOMPLETE GRADE

Incomplete grade will only be granted if "a student, for reasons beyond the his/her control, is unable to complete the work of the course, and if the instructor is informed of, and approves, such reasons before the date when grades must be reported". An Incomplete may only be given if the student asks for such a grade and if s/he has been passing in the course until such time as the Incomplete is requested.

ACADEMIC INTEGRITY

I personally support the GW Code of Academic Integrity. It states: "Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information." For the remainder of the code, see: https://studentconduct.gwu.edu/academic-integrity

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SUPPORT FOR STUDENTS OUTSIDE OF THE CLASS ROOM

DISABILITY SUPPORT SERVICES (DSS)

Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to: <u>http://gwired.gwu.edu/dss/</u> The DSS office is located in GWU's Rome Hall, Suite 102, 801 22nd Street, NW, Washington, DC 20052.

UNIVERSITY COUNSELING CENTER (UCC): 202-994-5300

The University Counseling Center (UCC) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include:

- crisis and emergency mental health consultations
- confidential assessment, counseling services (individual and small group), and referrals

http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices

MENTAL HEALTH SERVICE: 202-994-5300

The University's Mental Health Services offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include: crisis and emergency mental health consultations confidential assessment, counseling services (individual and small group), and referrals. For additional information see: counselingcenter.gwu.edu/

UNIVERSITY POLICY ON OBSERVANCE OF RELIGIOUS HOLIDAYS

In accordance with University policy, students should notify faculty during the first week of the semester of their intention to be absent from class on their day(s) of religious observance. For details and policy, see: *students.gwu.edu/accommodations-religious-holidays*.

SECURITY

In the case of an emergency, follow the evacuation procedures for the building. After evacuation, seek shelter at a predetermined rendezvous location. An evacuation will be considered if the building we are in is affected or we must move to a location of greater safety. We will always evacuate if the fire alarm sounds. In the event of an evacuation, please gather your personal belongings quickly and proceed to the nearest exit.

The Emergency Preparedness Information is available for download at <u>http://campusadvisories.gwu.edu/faculty</u>.