

STAT 1051.11 - INTRODUCTION TO BUSINESS AND ECONOMICS STATISTICS (Fall 2023)

Course Information

- **Meeting Time:** Wednesday, Friday, 09:35 AM – 10:50 AM
- **Location:** 1957 E, Room 214

Instructor

- **Name:** Dr. Hamid Semiyari
- **Email:** hamidreza.semiyari@gwu.edu
- **Office:** Rome Hall, TBA
- **Instructor office hours:** Wednesday 11 AM – 12 PM, either in person or

Teaching Assistant:

- **TA Name:** TBA
- **TA office:** Rome Hall TBA
- **TA Office Hours:** TBA

Course Prerequisites: High school algebra is essential.

Course Description

This is a general survey course in elementary statistics that will broadly cover descriptive statistics, probability, sampling, 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.

Learning Outcomes

As a result of completing this course, students 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.

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 Top [Textbooks 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: 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.

Special Notes:

Please

- Your emails must have your full name, course number (STAT1051) and a mention of the issue in the SUBJECT line 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 Grading:

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|------------|-----|---|
| Homework | 30% | Homework assignments, individual work MyStatLab |
| Quiz | 25% | <ul style="list-style-type: none">• About 10 quizzes will be released & collected in the class. You can drop the lowest one.• There are no make-up opportunities if missed any quiz |
| Midterm | 20% | |
| Final | 20% | |
| Attendance | 5% | <ul style="list-style-type: none">• Attendance will be checked for each class.• Students are allowed to miss up to 4 classes without penalty.• If miss more than 4 classes, 1 point will be deducted each time, until all the 5 points run out. |

✧ The average minimum amount of out-of-class expected per week: 6 hours.

Course Websites and Instructions

- We will be mainly using Blackboard to release assignments, announcements, and material passed to the class during the week.
blackboard.gwu.edu
- **The class will be taught in person.** Students are required to attend class on time.

Incomplete Grade

An incomplete grade will only be granted if “a student, for reasons beyond 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.

Grading Distribution

◇ The usual grading scale will be used. This scale may be curved to raise student grades at the instructor's discretion.

[94, 100] A

[90, 94) A-

(87, 90) B+

[83, 87] B

[80, 83) B-

(77, 80) C+

[73, 77] C

[70, 73) C-

(67, 70) D+

[63, 67] D

[60, 63) D-

<60 F

University policies

Academic Integrity Code

Academic integrity is an essential part of the educational process, and all members of the GW community take these matters very seriously. As the instructor of record for this course, my role is to provide clear expectations and uphold them in all assessments. Violations of academic integrity occur when students fail to cite research sources properly, engage in unauthorized collaboration, falsify data, and otherwise violate the [Code of Academic Integrity](#). If you have any questions about whether or not particular academic practices or resources are permitted, you should ask me for clarification. If you are reported for an academic integrity violation, you should contact the Office of Student Rights and Responsibilities (SRR) to learn more about your rights and options in the process. Consequences can range from failure of assignment to expulsion from the university and may include a transcript notation. For more information, please refer to the SRR website (<https://studentconduct.gwu.edu/academic-integrity>), email rights@gwu.edu, or call 202-994-6757.

University policy on observance of religious holidays

Students must notify faculty during the first week of the semester in which they are enrolled in the course, or as early as possible, but no later than three weeks prior to the absence, of their intention to be absent from class on their day(s) of religious observance. If the holiday falls within the first three weeks of class, the student must inform faculty in the first week of the semester. For details and policy, see “Religious Holidays” at provost.gwu.edu/policies-procedures-and-guidelines.

Use of Electronic Course Materials and Class Recordings

Students are encouraged to use electronic course materials, including recorded class sessions, for private

personal use in connection with their academic program of study. Electronic course materials and recorded class sessions should not be shared or used for non-course related purposes unless express permission has been granted by the instructor. Students who impermissibly share any electronic course materials are subject to discipline under the Student Code of Conduct. Please contact the instructor if you have questions regarding what constitutes permissible or impermissible use of electronic course materials and/or recorded class sessions. Please contact Disability Support Services at disabilitysupport.gwu.edu if you have questions or need assistance in accessing electronic course materials.

Academic

support Writing

Center

GW’s Writing Center cultivates confident writers in the University community by facilitating collaborative, critical, and inclusive conversations at all stages of the writing process.

Working alongside peer mentors, writers develop strategies to write independently in academic and public settings. Appointments can be booked online at gwu.mywconline.

Academic Commons

Academic Commons provides tutoring and other academic support resources to students in many courses. Students can schedule virtual one-on-one appointments or attend virtual drop-in sessions. Students may schedule an appointment, review the tutoring schedule, access other academic support resources, or obtain assistance at academiccommons.gwu.edu.

Support for students outside the classroom

Disability Support Services (DSS) 202-994-8250

Any student who may need an accommodation based on the potential impact of a disability should contact Disability Support Services at disabilitysupport.gwu.edu to establish eligibility and to coordinate reasonable accommodations..

Counseling and Psychological Services 202-994-5300

GW's Colonial Health Center offers counseling and psychological services, supporting mental health and personal development by collaborating directly with students to overcome challenges and difficulties that may interfere with academic, emotional, and personal success. healthcenter.gwu.edu/counseling-and-psychological-services.

Safety and Security

- In an emergency: call GYPD 202-994-6111 or 911
- 📄 For situation-specific actions: review the Emergency Response Handbook at: safety.gwu.edu/emergency-response-handbook
- 📄 In an active violence situation: Get Out, Hide Out, or Take Out. See go.gwu.edu/shooterpret

Stay informed: safety.gwu.edu/stay-informed