

SYLLABUS –FALL 2017

BUSN 3400 – Introduction to Economics and Business Statistics

INSTRUCTOR : Dr. Taiwo Amoo, Room 509, Whitehead Hall

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This is a partially online course and some classes may be fully online. You will be expected to use the course website and the internet to supplement what you learn in class. This course is on Blackboard and on the website below. Lectures with audio narration as well as exercises with solutions are available at:

<http://stats.proffriedman.net>

If you are using a Macintosh computer, you may have to download a simple program to hear the audio part of the lectures.

There is a textbook (free) in the form of PDFs written by Hershey Friedman and Linda Friedman at the website.

<http://stats.proffriedman.net/> This should be more than adequate for this course.

TEXTBOOK (Recommended): Business Statistics Schaum's Outlines by Leonard J. Kazmier, McGraw-Hill, Latest Edition. **This is only for students who feel they need another textbook.**

CALCULATOR: Students are required to bring a simple, scientific calculator to class. **Cell Phone calculators are not allowed during quizzes or examinations.**

REQUIRED FORMULA SHEETS AND TABLES

You may download them from:

https://www.researchgate.net/publication/280925936_Tables_and_Formula_Sheets_for_an_Introductory_Statistics_Course

GOALS AND LEARNING OBJECTIVES

Assignments and grading criteria will reflect the course goals and learning objectives

At the conclusion of the course students should be able to:

- (1) Understand the uses of statistics in making business decisions
- (2) Develop the skills to identify the appropriate statistical technique for analysis of data.
- (3) Learn how to collect, present, and interpret both qualitative and quantitative data.
- (4) Understand how to use computer software applications (e.g., MS Excel, SPSS) for data analysis.
- (5) Statistical techniques covered will include Z-test, t-tests, correlation and simple regression, One-sample test of hypothesis, and two-sample tests of hypothesis.

TOPICS

1 Introduction to Statistics - "Measuring" Data

2 Descriptive Statistics:

2.1 Lecture 1

2.2 Lecture 2

3 Introduction to Probability

4 Probability Distributions

5 Binomial Distribution

QUIZ1 10%

FIRST EXAMINATION 20%

6 Normal Distribution

7 Two Different Standard Normal (Z) Tables

8 Lecture PowerPoint Lecture Video

9 Sampling Distribution

10 Simple Linear Regression

11 Introduction to Correlation

QUIZ2 10%

SECOND EXAMINATION 15%

12 Introduction to Statistical inference

13 Estimation

14 Hypothesis Testing -- Z tests

15 Understanding Hypothesis Testing

16 The t Distribution

17 Inferences about the Proportion

18 Determining Sample Size

- 19 Two-sample Z test for the Mean
- 20 Understanding Two-Sample Hypothesis Testing
- 21 Two-sample t test for the Mean
- 22 Two-sample Z test for the Proportion

OTHER GRADE COMPONENTS:

FINAL EXAMINATION 20%

TAKE HOME QUIZ 5%

RESEARCH ANALYSIS 5% (Extra Credit)

HOMEWORK ASSIGNMENTS AND COMPUTER PROJECTS 20%

P.S. Note that there is no way to master the course without doing your homework assignments and doing practice problems on your own.

No Late submission of homework is allowed. No make-up exams unless there is an emergency.

Disabilities:

In order to receive disability-related academic accommodations students must first be registered with the Center for Student Disability Services (CSDS). Students who have a documented disability or suspect they may have a disability are invited to set up an appointment with the Director of the Center for Student Disability Services, Ms. Valerie Stewart-Lovell at 718-951-5538. If you have already registered with the CSDS please provide your professor with the course accommodation form and discuss your specific accommodation with him/her as soon as possible and at an appropriate time. Finally, for additional information download the latest edition of the CUNY publication: Reasonable Accommodations: A Faculty Guide to Teaching College Students with Disabilities from CUNY's Assistive Technology Services website at <http://cats.cuny.edu> The purpose of this guide is to provide faculty with information and suggestions to help meet the classroom needs of students with disabilities. It is a superb resource. I encourage you to make use of the information being provided. Please contact Valerie Stewart-Lovell, Director of the Center for Student Disability Services located at 138 Roosevelt Hall, extension 5538 if you have any questions regarding accommodations, resources and services provided through the Center. Contact Tunji Fussell, Interim Chief Diversity Officer of the Office of Diversity and Equity, located at 2147 Boylan Hall, extension 4128, or this office if you have any questions or comments regarding our college policies for students with disabilities.

University Policy on Academic Integrity:

The faculty and administration of Brooklyn College support an environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for implementing that policy can be found at this site: <http://www.brooklyn.cuny.edu/web/about/initiatives.php>. If a faculty member suspects a violation of academic integrity and, upon investigation, confirms that violation, or if the student admits the violation, the faculty member **MUST** report the violation.

Non-attendance Because of Religious Beliefs:

This class will adhere to state law regarding non-attendance because of religious beliefs.

Important Dates:

If you go to the college website, you will see all the important dates including conversion days, last day to drop a course without a grade, last day to withdraw from a course with a W grade, and last day to resolve INC grades from the previous semester.

<http://www.brooklyn.cuny.edu/web/about/administration/enrollment/registrar/bulletins.php>

Thursday September 21: No Classes Scheduled

Tuesday November 21: Follow a Friday Schedule – No Classes

Thursday November 23: Thanksgiving Recess

Tuesday December 12: Last day of Classes – Review for the Finals

Tuesday December 19: Final Exam (3:30P.M – 5:30P.M) – TY4

Tuesday December 19: Final Exam (6:00P.M – 8:00P.M) – ETR6