RUTGERS
School of Business | Camden

Introduction to Business Statistics 52:135:214:90

Syllabus, 2018 Spring

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Office location: Distance Learning
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Office Hours: By appointment
Class meetings: Distance Learning

Required Text, Online Tools and Software

The required text for this course is:

Business Statistics: A First Course (3rd ed.), by Sharpe, De Veaux, and Velleman, Pearson, 2017.
ISBN-13: 9780133866919

Access and purchase of these materials needs to happen through this course space. See Accessing eText and MyLab under Course Dashboard for instructions.

Please note that students who are in the fully online program will be able to access the eText and MyLabs (including the Multimedia Library) at no additional cost. Students who are not part of the fully online program will be required to purchase the eText and MyLab access. (see below)

NOTE: There is no need to purchase the hard copy textbook as MyLab access includes your access to the etext. *If you feel you need a hard copy to study, that is at your own expense and can be purchased at the university book store.*

Accessing eText and MyLab

You will also need to access the MyLab materials associated with this text. The eBook and MyLab materials for this product are found **in this course**—in the eBook and in Course Home (ML Quizzes/Tests, ML Homework, StatCrunch, Tools for Success, and Support). Links to these items are also found in the modules.

Due to different fee structures for online students, access to certain eTexts and course materials is included in their tuition/course fee. How you access these materials in this course depends on your type of enrollment:

- Students who are **fully online students** in the **Bachelor of Arts in Business Administration program** will get access to these materials at **no additional charge.** A fully online student means you are taking all classes toward your degree online.
- Students who are **not** part of that fully online program—students who are on-ground or hybrid—will need to **purchase access from within this course.**

Accessing the eBook and MyLab Materials

To initiate access of the materials:

1. Go to any links to the eBook or to any of the MyLab materials in this course (e.g., ML Homework or Tools for Success) in Course Home, or links to these items in any of the numbered course modules.
2. You will be prompted to accept the user agreement and privacy policy, and then you will be prompted to select your access option:
    - *Students who are in the fully online Bachelor of Arts in Business Administration program:* Select "Access Code," then enter the access code that was given to you by your executive coach. If you did not receive your access code, please contact your executive coach at studentsupport@online.rutgers.edu or you can call 866-890-2578.
    - *Students who are **not** in this fully online program:* Select "Buy Now," then select the link to purchase *MyStatLabPlus for: Business Statistics: A First Course (3rd ed.),* by Sharpe, De Veaux, and Velleman.
3. Note that you will only have to do this the first time you access the materials.

If you are unsure about which type of enrollment you fall under, please contact Christine Ebner at Christine.ebner@camden.rutgers.edu

I COURSE GOALS AND OBJECTIVES

This course presents the fundamentals of statistics, emphasizing statistical thinking, which is scientific reasoning—trying to understand the way the world works by gathering and modeling data. The course will help students understand how to think about the vast amounts of data encountered in the world. More importantly, the course will focus on enhancing better business decision-making by understanding, analyzing the data, and drawing useful insights from it. Major topics include exploring and collecting data, modeling data and making inferences, and decision-making with data analysis. Mini cases and applied examples are employed to illustrate business applications.

By the end of this course, you should be able to understand:

1. Exploring and collecting data
2. Displaying and describing data
3. Categorical and quantitative data
4. Correlation and regression analysis
5. Probability and Modeling
6. Understand various distribution types
7. Survey and Sampling techniques
8. Inferences for decision making
9. Hypotheses testing and confidence intervals

II COURSE DESIGN

This online course is designed to provide a variety of learning experiences and opportunities. Class activities will include some or all of the following: videos, class discussion, lecture, exams, quizzes, and class and group exercises. In order for you to maximize your learning experience, you will need to prepare by reading the assigned material and completing assigned. Lecture coverage of textbook material will be brief, and is intended to introduce you to the principles, theories, concepts, and techniques, rather than to substitute for your independent study of the assigned material.

For each topic covered, an outline in the form of a PowerPoint presentation will be posted on Canvas. Please note that the outlines are not sufficient for performing well on exams, you will need to read and understand the material in your text. The exams will require in-depth knowledge of the assigned material in your textbook and other readings.

III STUDENT EVALUATION

Summary of Assessment Points and Grading Scale

Student grades for this course will be calculated as follows:

Discussion Board	10%
Midterm Exam	20%
Final Exam	20%
Quizzes	25%
Homework	25%
Total	100 pts

Grading will be based on a 100-point scale, and final grades will be determined using the following scale:

Letter Grade	Points Range	Definition	Numerical Equivalent
A	90-100	Outstanding	4.0
B+	85-89	Very Good	3.5
B	80-84	Good	3.0
C+	75-80	Satisfactory	2.5
C	70-74	Acceptable	2.0
D	60-69	Poor	1.0
F	Below 60	Failing	0.0

IV ASSIGNMENTS

Discussion Board Activity (10% of grade)

There will be discussion board activities in this course. Discussions may involve any combination of prepared materials, journal articles, textbook readings, videos, or other resources each week.

Students are expected to create at least **one Discussion Thread by Day 4 (Thursday) of each week that a Discussion topic is assigned and then by Day 7 (Sunday) have responded to at least two other posted threads by other students in the class.** All postings including responses are to be substantive and further the discussion of the topic of interest.

Postings on the discussion board must reflect student's reading and comprehension of the assigned readings and/or related discussion activity. Discussion postings must reflect the ability to synthesize concepts presented through writing at a college level. **The minimum length of a post is 100 words not including references listed.**

Exams (40% of grade)

There are 2 Exams in this course (Midterm and Final), each worth 20% of your total grade. The exams will include the material covered in the textbook, lectures, PowerPoints, and Videos. MyLab will be used for each of the exams. The Midterm and Final Exams will be scheduled for the full period of 2 hours and 40 minutes.

The exams will be provided via MyLab. Students are reminded to adhere to the university's academic integrity policy. Any violations to academic integrity policy may result in receiving a failure for the course.

Quizzes (25% of grade)

The quizzes account for 25% of your total grade. The quizzes will include the material covered in the textbook, lectures, PowerPoints, and Videos. MyLab will be used for each of the quizzes. Students are reminded to adhere to the university's academic integrity policy. Any violations to academic integrity policy may result in receiving a failure for the course.

Homework (25% of grade)

Homework will include the material covered in the textbook, lectures, PowerPoints, and Videos. MyLab will be used for all homework assignments. Students are reminded to adhere to the university's academic integrity policy. Any violations to academic integrity policy may result in receiving a failure for the course.

V COURSE COMMUNICATION

All updates or changes to the syllabus and other important communications will be posted on the course website at https://onlinelearning.rutgers.edu/canvas-login. Developed materials will be made available on the website as well.

Please go to https://onlinelearning.rutgers.edu/canvas-login as soon as possible after the beginning of the semester and ensure that you are able to access the course. If you are properly registered for the course, this class should appear on your Canvas - Rutgers Online homepage after you have logged in (using your assigned username and password).

Email communication should be sent from your Rutgers University email address. You will need to check your Rutgers University email regularly. This will ensure that messages that I send to the class through the system will be forwarded to your email address.

VI ATTENDANCE

You will be required to post all assignments for the week when due and take an active part in the threaded discussions as scheduled. This means that you will be expected to post at least 3 substantive postings (min 100 words) in each of the discussion forums during the course.

VII ACADEMIC INTEGRITY

Academic integrity requires that all academic work be wholly the product of an identified individual or individuals. Joint efforts are only legitimate when the assistance of others is explicitly acknowledged…The principles of academic integrity entail simple standards of honesty and truth. Each member of the university has a responsibility to uphold the standards of the community and to take action when others violate them…Students are responsible for knowing what the standards are and for adhering to them. Students should also bring any violations of which they are aware to the attention of their instructors.

Students are expected to know, understand and adhere to the policies on academic integrity outlined above. Procedures for violation of these policies outlined in the University Code of Academic Conduct will be followed.

Any act of dishonesty in any of the students work constitutes academic misconduct. Violations of the Student Code of Conduct are considered serious infractions of student behavior and subject to penalties relative to the level of the matter. Academic integrity matters are handled directly by the academic units. Non-academic matters are handled by the Associate Chancellor for Student Affairs. Student Policies, including the Student Code of Conduct, procedures and definitions, can be found at: https://deanofstudents.camden.rutgers.edu/student_conduct

- In all cases, you are responsible for preparing and entering your own work and properly referencing the work of others. Cheating, plagiarism, and other types of misconduct are not acceptable. Penalties can include expulsion from the University. For the policy on Academic Integrity please see: https://deanofstudents.camden.rutgers.edu/academic-integrity

VIII DISABILITY STATEMENT

Students requiring accommodation should visit the website https://learn.camden.rutgers.edu/disability-services or contact the Camden campus Disability Coordinator (email: disabilityservices@camden.rutgers.edu). Please let me know whether you require any individual needs to support your efforts in the class.

IX INCLEMENT WEATHER CLOSING HOTLINE

Since this course is an online course, inclement weather will not impact your ability to attend class. However, here is the Inclement weather website: http://www.camden.rutgers.edu/about/operating-status

The Operating Status at Rutgers University–Camden provides operating information regarding emergency and weather alerts, class cancellations, campus closures, and more.

Students can also sign up for Emergency Text Alerts. Rutgers–Camden sends emergency text alerts to subscribed users via the Emergency Notification System. You can register your cell phone number to receive alerts in the event of a campus emergency.

Rutgers University

52:135:214:90 Introduction to Business Statistics
Course Calendar – Spring 2018

Due dates imply deadline of 11:59 p.m. All times are Eastern Standard.

Module	Readings	Assignments / Assessments	Due Dates
1	Chap 1 Lecture, PowerPoint, Videos	Set-Up MyLab **MyLab:** MyLab Orientation: Student Orientation Chap 1: Data and Decisions **Canvas:** Discussion Module 1: Student Introductions	**Sunday 1/21/18**
2	Chap 2 Lecture, PowerPoint, Videos	**MyLab:** Chap 2: Displaying and Describing Categorical Data **Quiz 1 (Chap 1-2)** Opens Monday at 00:00am and closes Sunday at 11:59pm	**Sunday 1/28/18**
3	Chap 3 Lecture, PowerPoint, Videos	**MyLab:** Chap 3: Displaying and Describing Quantitative Data **Canvas:** Discussion Module 3: Categorical Data and Decisions	**Sunday 2/4/18**
4	Chap 4 Lecture, PowerPoint, Videos	**MyLab:** Chap 4: Correlation and Linear Regression **Quiz 2 (Chap 3-4)** Opens Monday at 00:00am and closes Sunday at 11:59pm	**Sunday 2/11/18**
5	Chap 5.1-5.5 Lecture, PowerPoint, Videos	**MyLab:** Chap 5.1-5.5: Randomness and Probability I **Canvas:** Discussion Module 5: Correlation, Linear Regression	**Sunday 2/18/18**
6	Chap 5.6-5.9 Lecture, PowerPoint, Videos	**MyLab:** Chap 5.6-5.9: Randomness and Probability II **Midterm (Chap 1-5)** Opens Monday at 00:00am and closes Sunday at 11:59pm	**Sunday 2/25/18**
7	Chap 6	**MyLab:** Chap 6: Random Variables and Probability	**Sunday 3/4/18**

	Lecture, PowerPoint, Videos	Models **Canvas:** Discussion Module 7: Randomness and Probability	
8	Chap 7 Lecture, PowerPoint, Videos	**MyLab:** Chap 7: Normal and Other Continuous Distributions **Quiz 3 (Chap 6-7)** Opens Monday at 00:00am and closes Friday at 11:59pm	**Friday 3/9/18**
		Spring Recess (Mar 10 - Mar 18)	
9	Chap 8 Lecture, PowerPoint, Videos	**MyLab:** Chap 8: Surveys and Sampling **Canvas:** Discussion Module 9: Continuous Distributions; Surveys and Sampling	**Sunday 3/25/18**
10	Chap 9 Lecture, PowerPoint, Videos	**MyLab:** Chap 9: Sampling Distributions and Confidence Intervals for Proportions **Quiz 4 (Chap 8-9)** Opens Monday at 00:00am and closes Sunday at 11:59pm	**Sunday 4/1/18**
11	Chap 10.1-10.5 Lecture, PowerPoint, Videos	**MyLab:** Chap 10.1-10.5: Hypotheses Testing I **Canvas:** Discussion Module 11: Sampling Distributions and Confidence Intervals and Hypotheses Testing	**Sunday 4/8/18**
12	Chap 10.6-10.10 Lecture, PowerPoint, Videos	**MyLab:** Chap 10.6-10.10: Hypotheses Testing II **Quiz 5 (Chap 10)** Opens Monday at 00:00am and closes Sunday at 11:59pm	**Sunday 4/15/18**
13	Chap 11.1-11.4 Lecture, PowerPoint, Videos	**MyLab:** Chap 11.1-11.4: Confidence Intervals and Hypotheses Tests for Means I **Canvas:** Discussion Module 13: Confidence Intervals and Hypotheses Tests	**Sunday 4/22/18**
14	Chap 11.5-11.7 Lecture, PowerPoint,	**MyLab:** Chap 11.5-11.7: Confidence Intervals and Hypotheses Tests for Means II **Quiz 6 (Chap 11)** Opens Monday at	**Sunday 4/29/18**

	Videos	00:00am and closes Sunday at 11:59pm	
		Reading Day(s)	**Tue-Wed 5/1/18-5/2/18**
15	Lecture, PowerPoint, Videos	**MyLab:** **Final Exam (Chap 7-11)** Opens **Thursday** at 00:00am and closes Sunday at 11:59pm	**Thu-Sun 5/3/18-5/6/18**