## ECONOMICS 45: STATISTICAL METHODS

## Spring 2021

This version: April 4, 2021. Click here for newest version.

Instructor:	Felipe A. Araujo	Time:	Mo & Wed 9:20–10:35
Email:	f.araujo@lehigh.edu	Place:	Maginnes Hall 101

Course page: The offical course page is on Course Site, where I will post problem sets, answer keys, lecture materials, as well as any relevant communication.

Office Hours: Tuesday 3:00-4:30 PM and Friday 8:30-10:00 AM or by appointment. Office hours are online only. Here's the link for the Zoom sessions: https://lehigh.zoom.us/j/96288681151.

Course Grader: Liyan Feng (lif419@lehigh.edu)

Course Overview and Requirements: This course focuses on developing an understanding of the basic tools of statistical analysis and learning how to apply them to a wide variety of situations and data encountered in the areas of business and economics. Topics include descriptive statistics, probability and probability distributions, sampling, estimation, hypothesis testing, chi-square tests, correlation and simple linear regression. By the end of this course, students should be able to do the following:

- Compute and interpret descriptive statistical measures;
- Understand basic concepts of probability theory, such as common probability distributions and probability rules;
- Comprehend and apply the basics of inferential statistics (estimations and hypothesis testing);
- Work with measures of statistical association such as correlation and linear regression.

**Textbook and Software:** The textbook used in this class is *Statistics for Business and Economics*, 14<sup>th</sup> edition, by Anderson, Sweeney, Williams, Camm, Cochran, Fry and Ohlmann. As to statistical software, we will use Excel. The textbook provides an introduction to Excel in the appendix.

**Grading Policy:** Grades will be based on your performance on problem sets, two midterm exams and one final exam. The weights used to compute the weighted average score, based on which a letter grade will be determined, and the exam dates, are listed below. All exams are mandatory.

## Grading components, dates, and weights

Grade Component	Date	Weight
Attendance	-	5%
Problem Sets	Weekly assignment	20%
Midterm #1	March 3 (75 min)	20%
Midterm $\#2$	April 7 (75 min)	20%
Final Exam	May 13 (3 hours)	35%

Score	Letter Grade
[92, 100]	A
[90, 92)	A-
[87, 90)	B+
[82, 87)	В
[80, 82)	В-
[77, 80)	C+
[72, 77)	$\mathbf{C}$
[70, 72)	C-
[67, 70)	D+
[62, 67)	D
[60, 62)	D-
[0, 60)	F

**Problem Sets:** Problem sets will be graded using a 0–5 scale: 5 = Excellent (no major error or only minimal errors); 4 = Good (a few minor errors); 3 = Fair (some major errors); 2 = So-so (many major errors); 1 = Poor (very few correct answers); 0 = Not handed in or nothing correct. We will have 10 problem sets, of which 9 will be for grade, as the problem set of the week of March 22 — wellness week — will not be graded. Moreover, only the best 8 out of 9 problem sets will be considered for the final grade. If you have a question about the grading on particular problem set, please first look at the solutions posted at Course Site and then write a note explaining your question. I will return it to the grader to give your answer another look. Here are some requirements on doing the problem sets:

- The problem sets should be worked out either by handwriting or typing, and will be submitted in electronic format on Course Site. Make sure it is readable and write your name on each page;
- Show all the steps in your answer. Minimal or no credit will be given for *only* the right answer;
- For any problem set you may use statistical software unless otherwise stated. Do *not* submit software output without a written explanation;
- Although you may consult with other students, the work which you hand in should be your own;
- In order for me to post answer keys at Course Site in a timely manner, please keep in mind that problem sets cannot be accepted after the due date. Please turn in your completed problem set via Course Site.

Midterm Exams: Two 75-minute midterms will be given in class during the semester. No make-ups will be given for the midterms. An absence from an exam will only be allowed in the case of a medical or other emergency. In such situations a note from the Dean of Students' Office is necessary. If one midterm is missed with valid reasons, the remaining graded work will have adjusted weights. An unexcused absence from the midterm exam will receive a zero score.

**Final Exam:** The final exam will be comprehensive. The date and location will be determined by the Registration & Academic Services. If you are unable to take the final at the designated time, then you must follow the procedures in the Lehigh Student Handbook. No makeup finals will be given except on the official makeup day as determined by the Registrar.

**Attendance:** Attendance is mandatory and makes up 5% of the final grade. Most importantly, however, is that missing even one lecture can put you behind in a short time as the material naturally builds upon previous concepts.

Tutoring Options: The College of Business Undergraduate Programs Office helps coordinate tutoring options for students. It is best to seek out tutoring early in the semester and to continue to use it regularly for best results. No matter the GPA, tutoring is a way for students to take proactive action to ensure their success. The Center for Academic Success offers tutoring in most College of Business first-year and sophomore-level core courses free of charge to students.

The College of Business Undergraduate Programs Office publishes a grid outlining the various business tutoring options and times at the beginning of every semester. If you have any questions or concerns about tutoring, please contact Assistant Dean Emily Ford at eaf311@lehigh.edu.

Special Accommodations: Lehigh University is committed to maintaining an equitable and inclusive community and welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact Disability Support Services (DSS), provide documentation, and participate in an interactive review process. If the documentation supports a request for reasonable accommodations, DSS will provide students with a Letter of Accommodations. Students who are approved for accommodations at Lehigh should share this letter and discuss their accommodations and learning needs with instructors as early in the semester as possible. For more information or to request services, please contact Disability Support Services in person in Williams Hall, Suite 301, via phone at 610-758-4152, via email at indss@lehigh.edu, or online at https://studentaffairs.lehigh.edu/disabilities.

Lehigh Student Senate Academic Integrity Statement: "We, the Lehigh University Student Senate, as the standing representative body of all undergraduates, reaffirm the duty and obligation of the students to meet and uphold the highest principles and values of personal, moral and ethical conduct. As partners in our educational community, both students and faculty share the responsibility for promoting the helping to ensure an environment of academic integrity. As such, each student is expected to complete all academic course work in accordance to the standards set forth by the faculty and in compliance with the university's Code of Conduct."

The Principles of Our Equitable Community: Lehigh University endorses The Principles of Our Equitable Community. We expect each member of this class to acknowledge and practice these Principles. Respect for each other and for differing viewpoints is a vital component of the learning environment inside and outside the classroom.

Course Outline and Schedule: The table below details the complete class and assignment schedules as well as the topics covered and the relevant textbook sections.

## Lectures and Assignments: Topics and Schedule

Week 1	Date	Topic and Textbook Sections	Assignment and Due Date
02/03         Ch. 2, sec. 2.1-2.3 (appendix 2.2, self-study)         PS #1 due 02/08           Week 2         Descriptive statistics         02/08           02/08         Ch. 2, sec. 2.4-2.5; Ch. 3, sec. 3.1-3.2         02/10           02/10         Ch. 3, sec. 3.3-3.5 (appendix 3.1-3.3, self-study)         PS #2 due 02/15           Week 3         Introduction to probability         PS #2 due 02/15           Week 4         Ch. 4, sec. 4.1-4.3         Ch. 4, sec. 4.4-5.           Week 4         Discrete probability distributions         PS #3 due 03/01           02/24         Ch. 5, sec. 5.1-5.4         PS #3 due 03/01           02/24         Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)         PS #3 due 03/01           Week 5         Review session and midterm           03/01         Review         PS #4 due 03/15           Week 6         Continuous probability distributions         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 6, sec. 6.1-6.2         PS #5 due 03/22           Week 8         Interval Estimation           03/22         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.1-9.3         PS #7 due 04/05     <	Week 1	Data and descriptive statistics	
Week 2         Descriptive statistics           02/08         Ch. 2, sec. 2.4-2.5; Ch. 3, sec. 3.1-3.2           02/10         Ch. 3, sec. 3.3-3.5 (appendix 3.1-3.3, self-study)         PS #2 due 02/15           Week 3         Introduction to probability           02/17         Ch. 4, sec. 4.1-4.3         02/17           02/17         Ch. 4, sec. 4.4-4.5           Week 4         Discrete probability distributions           02/22         Ch. 5, sec. 5.1-5.4           02/24         Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)         PS #3 due 03/01           Week 5         Review session and midterm           03/01         Review         3/10         MIDTERM #1           Week 6         Continuous probability distributions         03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5         03/17         Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation           03/22         Ch. 8, sec. 8.3-8.4         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)         PS #7 due 04/05	02/01	Ch. 1, sec. 1.1-1.6	
02/08 Ch. 2, sec. 2.4-2.5; Ch. 3, sec. 3.1-3.2 02/10 Ch. 3, sec. 3.3-3.5 (appendix 3.1-3.3, self-study)  Week 3 Introduction to probability 02/15 Ch. 4, sec. 4.1-4.3 02/17 Ch. 4, sec. 4.1-4.5  Week 4 Discrete probability distributions 02/22 Ch. 5, sec. 5.1-5.4 02/24 Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)  Week 5 Review session and midterm 03/01 Review 03/03 MIDTERM #1  Week 6 Continuous probability distributions 03/08 Ch. 6, sec. 6.1-6.2 03/10 Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)  PS #4 due 03/15  Week 7 Sampling distributions 03/15 Ch. 7, sec. 7.1-7.5 03/17 Ch. 7, sec. 7.1-7.5 03/17 Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)  PS #5 due 03/22  Week 8 Interval Estimation 03/22 Ch. 8, sec. 8.1-8.2 03/24 Ch. 8, sec. 8.3-8.4  PS #6 due 03/29 (not graded)  Week 9 Inference I: hypothesis tests 03/29 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)  PS #7 due 04/05  Week 10 Review session and midterm 04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2	02/03	Ch. 2, sec. 2.1-2.3 (appendix 2.2, self-study)	PS #1 due 02/08
02/10         Ch. 3, sec. 3.3-3.5 (appendix 3.1-3.3, self-study)         PS #2 due 02/15           Week 3         Introduction to probability           02/15         Ch. 4, sec. 4.1-4.3           Week 4         Discrete probability distributions           02/22         Ch. 5, sec. 5.1-5.4           02/24         Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)         PS #3 due 03/01           Week 5         Review session and midterm           03/01         Review         03/03           MIDTERM #1         Veek 6         Continuous probability distributions           03/08         Ch. 6, sec. 6.1-6.2         03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions         03/15         Ch. 7, sec. 7.1-7.5         03/17         Ch. 7, sec. 7-6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation         03/22         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests         03/29         Ch. 9, sec. 9.1-9.3         03/31         Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)         PS #7 due 04/05           Week 10         Review session and midterm         Review         Note of the proportions         PS #7 due 04/05	Week 2	· · · · · · · · · · · · · · · · · · ·	*
Week 3         Introduction to probability           02/15         Ch. 4, sec. 4.1-4.3           02/17         Ch. 4, sec. 4.4-4.5           Week 4         Discrete probability distributions           02/22         Ch. 5, sec. 5.1-5.4           02/24         Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)         PS #3 due 03/01           Week 5         Review session and midterm           03/03         MIDTERM #1           Week 6         Continuous probability distributions           03/08         Ch. 6, sec. 6.1-6.2           03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5         93/17         Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation         03/22         Ch. 8, sec. 8.1-8.2         93/24         Ch. 8, sec. 8.3-8.4         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests         03/29         Ch. 9, sec. 9.1-9.3         93/31         Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)         PS #7 due 04/05           Week 10         Review session and midterm         04/05         MIDTERM # 2           Week 11         Inference II:	02/08	Ch. 2, sec. 2.4-2.5; Ch. 3, sec. 3.1-3.2	
02/15	02/10	Ch. 3, sec. 3.3-3.5 (appendix 3.1-3.3, self-study)	PS $\#2$ due $02/15$
02/17         Ch. 4, sec. 4.4-4.5           Week 4         Discrete probability distributions           02/22         Ch. 5, sec. 5.1-5.4           02/24         Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)         PS #3 due 03/01           Week 5         Review session and midterm           03/01         Review           03/03         MIDTERM #1           Week 6         Continuous probability distributions           03/08         Ch. 6, sec. 6.1-6.2           03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation           03/22         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.1-9.3         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           Ch. 10, sec. 10.1-10.2	Week 3	Introduction to probability	
Week 4         Discrete probability distributions           02/22         Ch. 5, sec. 5.1-5.4           02/24         Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)         PS #3 due 03/01           Week 5         Review session and midterm           03/01         Review           03/03         MIDTERM #1           Week 6         Continuous probability distributions           03/08         Ch. 6, sec. 6.1-6.2           03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5         PS #5 due 03/22           Week 8         Interval Estimation         PS #5 due 03/22           03/22         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.1-9.3         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	02/15	Ch. 4, sec. 4.1-4.3	
02/22 Ch. 5, sec. 5.1-5.4  02/24 Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)  Week 5 Review session and midterm  03/01 Review 03/03 MIDTERM #1  Week 6 Continuous probability distributions 03/08 Ch. 6, sec. 6.1-6.2 03/10 Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)  Week 7 Sampling distributions 03/15 Ch. 7, sec. 7.1-7.5 03/17 Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)  PS #4 due 03/15  Week 8 Interval Estimation 03/22 Ch. 8, sec. 8.1-8.2 03/24 Ch. 8, sec. 8.3-8.4  PS #6 due 03/29 (not graded)  Week 9 Inference I: hypothesis tests 03/29 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)  Week 10 Review session and midterm 04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2	02/17	Ch. 4, sec. 4.4-4.5	
02/24         Ch. 5, sec. 5.5-5.7 (appendix 5.1-5.3, self-study)         PS #3 due 03/01           Week 5         Review session and midterm           03/01         Review           03/03         MIDTERM #1           Week 6         Continuous probability distributions           03/08         Ch. 6, sec. 6.1-6.2           03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5         PS #5 due 03/22           Week 8         Interval Estimation         PS #5 due 03/22           03/22         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests         PS #6 due 04/05           03/29         Ch. 9, sec. 9.1-9.3         PS #7 due 04/05           Week 10         Review session and midterm         PS #7 due 04/05           04/05         Review         O4/07         MIDTERM # 2           Week 11         Inference II: means and proportions         O4/12         Ch. 10, sec. 10.1-10.2	Week 4	Discrete probability distributions	
Week 5         Review session and midterm           03/01         Review           03/03         MIDTERM #1           Week 6         Continuous probability distributions           03/08         Ch. 6, sec. 6.1-6.2           03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5           03/17         Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation           03/22         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests         PS #6 due 03/29 (not graded)           Week 9         Ch. 9, sec. 9.1-9.3         03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	02/22	· · · · · · · · · · · · · · · · · · ·	
03/01       Review         03/03       MIDTERM #1         Week 6       Continuous probability distributions         03/08       Ch. 6, sec. 6.1-6.2         03/10       Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)       PS #4 due 03/15         Week 7       Sampling distributions         03/15       Ch. 7, sec. 7.1-7.5       PS #5 due 03/22         Week 8       Interval Estimation         03/22       Ch. 8, sec. 8.1-8.2       PS #6 due 03/29 (not graded)         Week 9       Inference I: hypothesis tests         03/29       Ch. 9, sec. 9.1-9.3       PS #7 due 04/05         Week 10       Review session and midterm         04/05       Review       PS #7 due 04/05         Week 11       Inference II: means and proportions         04/12       Ch. 10, sec. 10.1-10.2			PS #3 due 03/01
Week 6   Continuous probability distributions			
Week 6         Continuous probability distributions           03/08         Ch. 6, sec. 6.1-6.2           03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5         7.1-7.5           03/17         Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation         PS #6 due 03/29 (not graded)           03/22         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.1-9.3         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	03/01	Review	
03/08 Ch. 6, sec. 6.1-6.2 03/10 Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study) PS #4 due 03/15  Week 7 Sampling distributions 03/15 Ch. 7, sec. 7.1-7.5 03/17 Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study) PS #5 due 03/22  Week 8 Interval Estimation 03/22 Ch. 8, sec. 8.1-8.2 03/24 Ch. 8, sec. 8.3-8.4 PS #6 due 03/29 (not graded)  Week 9 Inference I: hypothesis tests 03/29 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study) PS #7 due 04/05  Week 10 Review session and midterm 04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2		···	
03/10         Ch. 6, sec. 6.3-6.4 (appendix 6.1-6.3, self-study)         PS #4 due 03/15           Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5           03/17         Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation         PS #6 due 03/29 (not graded)           03/24         Ch. 8, sec. 8.1-8.2         PS #6 due 03/29 (not graded)           03/29         Ch. 9, sec. 9.1-9.3         PS #6 due 03/29 (not graded)           03/29         Ch. 9, sec. 9.1-9.3         PS #7 due 04/05           03/31         Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2			
Week 7         Sampling distributions           03/15         Ch. 7, sec. 7.1-7.5           03/17         Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)         PS #5 due 03/22           Week 8         Interval Estimation         PS #6 due 03/29 (not graded)           03/24         Ch. 8, sec. 8.3-8.4         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.1-9.3           03/31         Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	'	· · · · · · · · · · · · · · · · · · ·	
03/15 Ch. 7, sec. 7.1-7.5 03/17 Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)  Week 8 Interval Estimation 03/22 Ch. 8, sec. 8.1-8.2 03/24 Ch. 8, sec. 8.3-8.4  Week 9 Inference I: hypothesis tests 03/29 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)  Week 10 Review session and midterm 04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2	,	, , , , , , , , , , , , , , , , , , , ,	PS #4 due 03/15
03/17 Ch. 7, sec. 7.6-7.7 (appendix 7.1-7.3, self-study)       PS #5 due 03/22         Week 8 Interval Estimation         03/22 Ch. 8, sec. 8.1-8.2       PS #6 due 03/29 (not graded)         Week 9 Inference I: hypothesis tests         03/29 Ch. 9, sec. 9.1-9.3       03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)       PS #7 due 04/05         Week 10 Review session and midterm         04/05 Review       04/07 MIDTERM # 2         Week 11 Inference II: means and proportions         04/12 Ch. 10, sec. 10.1-10.2		• 0	
Week 8         Interval Estimation           03/22         Ch. 8, sec. 8.1-8.2           03/24         Ch. 8, sec. 8.3-8.4         PS #6 due 03/29 (not graded)           Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.1-9.3         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	,	•	
03/22 Ch. 8, sec. 8.1-8.2 03/24 Ch. 8, sec. 8.3-8.4  Week 9 Inference I: hypothesis tests 03/29 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)  Week 10 Review session and midterm 04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2		· · · · · · · · · · · · · · · · · · ·	PS #5 due 03/22
03/24 Ch. 8, sec. 8.3-8.4 PS #6 due 03/29 (not graded)  Week 9 Inference I: hypothesis tests 03/29 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)  Week 10 Review session and midterm 04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2			
Week 9         Inference I: hypothesis tests           03/29         Ch. 9, sec. 9.1-9.3           03/31         Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)         PS #7 due 04/05           Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	'		
03/29 Ch. 9, sec. 9.1-9.3 03/31 Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study) PS #7 due 04/05  Week 10 Review session and midterm 04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2	03/24	Ch. 8, sec. 8.3-8.4	
03/31       Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)       PS #7 due 04/05         Week 10       Review session and midterm         04/05       Review         04/07       MIDTERM # 2         Week 11       Inference II: means and proportions         04/12       Ch. 10, sec. 10.1-10.2	Week 9	Inference I: hypothesis tests	
Week 10         Review session and midterm           04/05         Review           04/07         MIDTERM # 2           Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	03/29	Ch. 9, sec. 9.1-9.3	
04/05 Review 04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2	03/31	Ch. 9, sec. 9.4-9.8 (appendix 9.1-9.3, self-study)	PS #7 due 04/05
04/07 MIDTERM # 2  Week 11 Inference II: means and proportions 04/12 Ch. 10, sec. 10.1-10.2	Week 10	Review session and midterm	
Week 11         Inference II: means and proportions           04/12         Ch. 10, sec. 10.1-10.2	04/05	Review	
04/12 Ch. 10, sec. 10.1-10.2	04/07	MIDTERM # 2	
		Inference II: means and proportions	
04/14 Ch. 10, sec. 10.3-10.4 (appendix 10.1-10.3, self-study) PS #8 due $04/19$	,	•	
		Ch. 10, sec. 10.3-10.4 (appendix 10.1-10.3, self-study)	PS #8 due 04/19
Week 12 Experimental design and ANOVA			
04/19 Ch. 13, sec. 13.1-13.2	,		
04/21 Ch. 13, sec. 13.2-13.4 (appendix 13.1-13.3, self-study)		Ch. 13, sec. 13.2-13.4 (appendix 13.1-13.3, self-study)	
Week 13 Linear regression I	Week 13	Linear regression I	
04/26 Ch. 14, sec. 14.1-14.2	04/26	Ch. 14, sec. 14.1-14.2	
04/28 Ch. 14, sec. 14.3-14.5 PS #9 due 05/03		<u> </u>	PS #9 due 05/03
Week 14 Linear regression II		_	
05/03 Ch. 14, sec. 14.6-14.7	,		
05/05 Ch. 14, sec. 14.8-14.10 PS #10 due 05/10			PS #10 due 05/10
Week 15 Review Session and Final Exam			
05/10 Review session	,		
TBD FINAL EXAM	TBD	FINAL EXAM	