

## STAT 206: Elementary Statistics for Business, Fall 2017

Location: WMBB Nursing 125, Pearson Course ID = jiang61044

Meeting Times: TTH 1:15-2:30 (section 007)

### Instructor:

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Office Hours: MWF 9:30-10:30, TTH 9:00-11:00 and/or by appointment

Teaching Assistant: Dongho, Shin, Office Hours in LeConte 200D MW 2:00-4:00 or by appointment, email: [dongho@email.sc.edu](mailto:dongho@email.sc.edu).

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**Description:** Elementary Statistics for Business (3 credit hours) – (Prerequisites: MATH 111 or higher, or consent of department) An introduction to fundamental statistical methods with applications in business. Topics include descriptive statistics, probability, inference, linear regression, and ANOVA.

**Purpose:** To give students in business fields a non-calculus based introduction to the application of modern statistical methods including descriptive and inferential statistics. To show students that statistics is an important research tool within business.

**Learning Outcomes:** After completion of this course, the successful student will be able to do the following:

1. Evaluate and create common graphical displays and summary statistics from data.
2. Apply the rules of probability to solve basic problems.
3. Evaluate Type I and Type II errors in one and two sample problems; construct and evaluate confidence intervals and hypothesis tests in one and two-sample problems; apply sample size calculations to one and two-sample problems.
4. Understand the simple linear regression model and least squares estimation; evaluate assumptions in the normal-errors model, construct confidence intervals and test hypotheses for slope.
5. Conduct analysis of statistical methods with business applications in statistical computing packages such as Excel, R, SAS or Minitab.

**Expectations:** All students are expected to:

- Attend class regularly and participate in in-class activities.
- Arrive for class within sufficient time to be in a seat and ready to begin at class start time.
- Read the portions of the text as assigned.
- Make serious attempts at all of the assigned homework problems and in preparation for the exams.
- Use the resource of fellow students and the instructor to seek answers to questions that arise in class, in the readings, and on the homework.

**Attendance:** *All students are expected to attend all classes.* It is assumed that any information given out during class has been delivered to all students. See university policy on attendance. Penalties may be applied for habitual unexcused absences.

**Need Help?** This course is a part of the Student Success Center (SSC) Success Connect program, a partnership between the SSC and USC faculty who want to assist you on your path to success. This course has been identified as critical to the success of undergraduate students and your instructor may communicate with the SSC regarding student progress in the course throughout the semester. As a result, you should expect to be contacted by Student Success Center staff regarding resources and opportunities that may help you. These services are free and available to all students enrolled in this course. Any information shared by your instructor is completely confidential and subject to FERPA regulations. If you are contacted regarding a referral, please follow up with both the instructor and the Student Success Center. Of course, you do not have to wait for a referral to take advantage of this program. At any time, you may call 7-1000 to learn more about available resources for this course or go online to [www.sc.edu/success](http://www.sc.edu/success) to schedule an appointment with an Academic Coach.

**Accommodations:** Reasonable accommodations are available for students with a documented disability. If you have a disability and may need accommodations to fully participate in this class, contact the Office of Student Disability Services: 777-6142, TDD 777-6744, email [sasds@mailbox.sc.edu](mailto:sasds@mailbox.sc.edu), or stop by LeConte College Room 112A. All accommodations must be approved through the Office of Student Disability Services.

**Honor Code and Student Conduct:** Possible violations of academic integrity will be referred to the Office of Academic Integrity. Please see <http://www.housing.sc.edu/academicintegrity/> for full details of this procedure and definitions.

The **Carolinian Creed** in the *Carolina Community: Student Handbook & Policy Guide* follows:

The community of scholars at the University of South Carolina is dedicated to personal and academic excellence.

Choosing to join the community obligates each member to a code of civilized behavior. As a Carolinian...

I will practice personal and academic integrity;

I will respect the dignity of all persons;

I will respect the rights and property of others;

I will discourage bigotry, while striving to learn from differences in people, ideas and opinions;

I will demonstrate concern for others, their feelings, and their need for conditions which support their work and development.

**Cheating and Plagiarism:** Just DON'T! Cheating and plagiarism of any kind will be referred to the Office of Academic Integrity. Students may work with each other where appropriate, but assignments (electronic or by hand) must be the student's own work. Students who are caught cheating will be reported to the Office of Academic Integrity as well as subject to receiving a zero on the assignment and/or an *F* in the course. Cheating includes, but is not limited to, copying homework assignments, copying another student's exam work, using a "cheat sheet" when you aren't allowed, etc.

**Cell Phones:** Cell phones must be silenced during every class. Online activity (other than note taking or iClicker Reef responses) on a cell phone during class is strictly prohibited.

**Email:** Students are expected to check student designated email on a regular basis. Even if a student fails to check email for messages, the student is still responsible for any announcements made using email.

**Course Management System – Pearson's MyStatLab** ([www.MyStatLab.com](http://www.MyStatLab.com)) (Course ID = **jiang61044**): MyStatLab is an online course management system that includes the e-book, homework, notes and announcements. MyStatLab also includes access to StatCrunch.com, an online data analysis package that will be used, along with Excel, for homework and/or other assignments. MyStatLab will be demonstrated in class throughout the semester. Students who are not registered on Pearson MyStatLab when an assignment is due will receive a zero on those assignments including homework. These assignments cannot be made up. See the next to last page of this syllabus for instructions on registering for MyStatLab.

#### Course Materials:

- **Textbook: Basic Business Statistics, (13<sup>th</sup> Edition)**, Berenson M.L., Levine, D.M., and Szabat, K.A. **with MyStatLab**  
Access Code: ISBN-9780133869460
  - **Choose one of the options below to obtain an access code:**
    1. Buy the hard copy custom edition of the textbook bundled with an access code to My Lab and Mastering (My Stat Lab) from a USC bookstore. Choose this option if you want a hard copy of the textbook.
    2. Buy only the access code to My Lab and Mastering from [pearsonmylabandmastering.com](http://pearsonmylabandmastering.com). An e-book is included in the online course management system.If (for whatever reason), you aren't able to register this weekend, there is an option for **temporary access (14 days)** to this course on my lab and mastering.
- This course will cover Chapters 1-10, 12, 13 from **Basic Business Statistics, (13<sup>th</sup> Edition)**, Berenson M.L., Levine, D.M., and Szabat, K.A., Pearson Education, Inc. The course management system that we will use is called Pearson MyStatLab. An **access code** to MyStatLab is **REQUIRED**. (Course ID = **jiang61044**). See the last page of this syllabus for instructions on registering for MyStatLab.
- **iClicker Reef app:** You will be **REQUIRED** to have a subscription for the **iClicker Reef app** for polling (answering questions) in class. The **iClicker Reef app** is available at no cost (FREE!) to students taking statistics courses at USC. Instructions for accessing the **iClicker Reef app** at no cost to you will be given the first day of class, but you **MUST** follow the access directions to take advantage. **iClicker Reef app** is an app for ANY device that can access the internet (smart phone, tablet, laptop, etc.). We will use the polling/clicker system **every day** in lecture to determine attendance and to assess concept understanding. **NOTE:** Though the bookstore may indicate that i>Clicker2 is required, you are not required to have an i>Clicker2 for accessing **iClicker Reef app**. For this semester, you may use:
  - The **iClicker Reef app** on any portable device (smartphone, tablet, laptop, etc.) that can access the internet (FREE)
  - The **iClicker Reef app** with the i>Clicker2 remote (NOT FREE) Our frequency for iClicker Reef responses is **AB**.

- The **iClicker Reef app** with an iClicker remote (the old version of the remote with just A, B, C, D, and E buttons on it (probably NOT FREE) Our frequency for iClicker Reef responses is **AB**.

**Please note: iClicker Reef app ACCESS IS REQUIRED to accumulate and receive credit (in your name) for your iClicker Reef responses and the associated points! These points are extremely valuable if a homework due date is missed (either deliberately or accidentally) and to supplement points that are lost in homework sets.**

- **Calculator and Computer:** Each student will need a calculator (one that can take a square root and raise a number to a power).
  - Please note that **use of graphing calculators or cell phone calculators** is **NOT** allowed on STAT 206 exams.
  - Access to the internet to complete homework assignments and print notes and readings is required. If you don't have a personal computer, computers are located throughout the campus.
- **Statistical software:** Excel and/or applets or software (such as StatCrunch, Minitab, R, and SAS), will be demonstrated in class throughout the semester for implementing the methods covered. Any of these required for homework sets are available in the Pearson MyStatLab registration or in the DMSB labs, while R is also available as a free download.
- **Class emails:** **Your email address should be current in the Blackboard system.** Information concerning the class including additional assignments, due dates, changes and various requirements may be shared via email. **It is your responsibility to regularly check the email that you have listed.** Missing requirements due to failure to monitor email will not be accepted as an excuse.

#### **GRADING:**

**Three (3) In-class Exams** (45% semester grade for average of three exams): Dates for the three in-class exams are listed on the schedule attached to this syllabus. **Independent** work is required on all exams.

Make-up exams for missed single in-class exams are **NOT** available. If the **"Final Exam"** proportion is higher than any single exam grade, the **"Final Exam"** proportion will be used for final grade calculations rather than the lower grade. This method is used as the make-up exam for a **single** missed in-class exam. At the time of the missed in-class exam, a score of "0" will be assigned. To replace the "0" grade. If more than one in-class exam is missed, **ONLY ONE** score, whether an assigned scores of "0" or a lower score, can be replaced in calculations by the weighted score on the **"Final Exam."**

**Final Exam** (25% semester grade): Dates and times of the comprehensive FINAL exam can be found by clicking the link under "Final Exam Schedules" at

[http://www.sc.edu/about/offices\\_and\\_divisions/registrar/final\\_exams/final-exams-fall-2017.php](http://www.sc.edu/about/offices_and_divisions/registrar/final_exams/final-exams-fall-2017.php)

**Homework and Attendance** (30% semester grade): Homework testing the concepts taught in lecture will be posted in **MyStatLab** throughout the semester. Students will submit their answers online and receive feedback from the system on responses. A date and time for closing each assignment will be announced in class and appear on each assignment. Some written homework problems from the textbook (e-book) may also be assigned and collected. Expect 12 assignments. Students may discuss the homework problems, but each student must submit his/her answers individually. A 25% penalty will be imposed on all late parts of the assignments (late assignments are only accepted for up to 7 days after the due date). If you have technical difficulties with **MyStatLab**, you must notify me 24 hours before the assignment is due to receive **consideration** for an extension (not automatic). Students who are not registered on **MyStatLab** will receive a zero on homework assignments. Participation/iClickerReef points will combine with those points received for homework (in Pearson) to account for 30% of your semester grade (with a max of 100% of available points).

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## EVERY STUDENT must register for “MyStatLab.”

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To do this, follow the directions below:

1. On the MyStatLab website (**MyStatLab.com**), click **Student** under **Register**.
2. Enter the Course ID = **jiang61044**, and click **Continue**.
3. Sign in or create an account:
  - If you already have a Pearson account, enter your username and password. Click **Sign In**.
  - If you don't have an account, click **Create an account**. Add your account information (USC ZIP Code = 29208), and read and accept the license agreement. Click **Create Account**.

**Note:** On the Sign In page, check that the course details are correct. If not, click **Enter a different course ID**.

4. To select an option to register for access to your course, do one of the following:
  - If you already bought your access code, either bundled with your textbook or as an access code kit sold individually, click **Access Code**. Next, enter your access code and click **Finish**.  
**\*Please note:** we can only guarantee you receive the correct materials/access code by going through 1 of 2 channels...
    1. Campus Bookstore: loose-leaf option and digital only option.
    2. Directly through MyStatLab when registering.
  - If you're waiting for financial aid, click **Get temporary access without payment for 14 days**. Click Yes when a message appears asking if you are sure you want temporary access.

A Confirmation page appears where you can go to your course.

### Sign in

Once you have entered your course ID and registered, you can sign in anytime:

1. On the MyStatLab, click **Sign in**.
2. Enter your username and password, and click **Sign in**.
3. Under **MyLab / Mastering New Design**, click your course title.  
When your course appears, use the course menu to navigate.

For Customer Technical Support, call Toll Free **1-800-677-6337**, Monday through Friday, 9 AM – 6 PM EST.

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