

# MATH 183: Introductory Statistics

## Section 2

Fall 2016

Dr. John Spraker

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Office hours:

MW 12:25-1:30, 2:45-4:00 Others by appointment or capture.

TTH 2:05-3:00

F 12:25-1:30

Drop Date: Oct. 12

### Class Meetings

MWF 10:20 – 11:15 COHH 1102

Welcome to Math 183. Statistics is one of the most applicable fields in mathematics. We will analyze data, fit curves to data and apply probability to solve real world problems. Statisticians are employed in government, industry, and academia so an understanding of this field can lead to many lucrative careers. We will be using MyStatLab. Students should obtain notes and assignments from this site prior to class each day. See the attached handout for MyStatLab registration information.

We will move quickly so keep up. You will have online homework assigned each day. Do the problems every night! I will usually spend the first few minutes of class discussing the previous homework but may not always have time to do so. Call or contact me if you are having problems. If I did not like talking to students, I would do something else for a living. Make use of my office hours and always come to class prepared!

### Description

Prerequisite: Eligibility for College Algebra based on Math ACT, MPE, COMPASS, or KYOTE scores; or DMA 096 C with grade of C or better (see [http://www.wku.edu/math/math\\_placement.php](http://www.wku.edu/math/math_placement.php)).

MATH 183: Introductory Statistics (3 hours) meets five learning objectives as part of the Colonnade requirement for quantitative reasoning. MATH 183 students will learn to interpret, illustrate, and communicate mathematical and statistical ideas. Further, students will learn to model and solve problems. As part of this course students will learn concepts from introduction to elementary probability theory; the analysis of data by means of frequency distributions and the statistics which describe them; the binomial and normal probability distributions; statistical inference; and emphasis is on applied real world problems. This course is not accepted for credit toward the mathematics major or minor.

MATH 183 specifically meets the five learning objectives as detailed below:

**Learning Objective 1: Interpret information presented in mathematical and/or statistical forms.**

**Learning Objective 2: Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically.**

**Learning Objective 3: Determine when computations are needed and execute the appropriate computations.**

**Learning Objective 4: Apply an appropriate model to the problem to be solved.**

**Learning Objective 5: Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.**

### Course Materials

Triola, M., *Elementary Statistics Using the TI-83/84 Plus Calculator* (4th Edition), 2014, Pearson.

MyStatLab/eBook ISBN: 9780321694645 (labeled as Mystatlab Statcrunch Access Code)

- **The physical textbook is optional; the entire content of the textbook can be accessed electronically within the MyStatLab program.**

## Material to be Covered

We will cover selected topics from chapters 1 through 11 of the textbook. We will not necessarily cover topics in the order in which they are presented in the text.

## Technology

- Each student will need a graphing calculator for use in class and for assignments. TI-83 and TI-84 are preferred, and instruction for these models will be given (in fact, the text is specifically designed for these models). Cell phone calculators are *not* permitted for use on exams!
- A subscription to MyStatLab is required (packaged with the eBook). See below for more details. The Course ID is **spraker34019**.

## Graded Work

- **Exams (60%)** Three in-class exams will be given during the course of the semester. Exams other than the final may be taken early but almost never late. Contact me *before* the exam if you feel that your situation merits a make-up.
- **Exam I Friday Sept. 16**
- **Exam II Wednesday Oct. 12**
- **Exam III Friday Nov. 4**
- **Online Homework (20%)**
  - Homework will be assigned via MyStatLab regularly throughout the semester. It is your responsibility to access the assignment in adequate time to complete it before the due date.
- **Final Exam (20%)** A comprehensive final exam will be given on **Thursday Dec. 8 at 10:30**.

## Grading Scale

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
0% - 59%	F

## Important Dates

Oct. 12: Last day to drop classes with a W.

Oct. 6-7 Fall Break

Nov. 23 – 25 Thanksgiving Break

- The Learning Center (TLC) Should you require academic assistance with your WKU courses, The Learning Center (located in the Downing Student Union, 2141) provides free supplemental education programs for all currently enrolled WKU students. The Learning Center at Downing Student Union offers certified, one-on-one tutoring in over 200 subjects and eight academic skill areas by appointment or walk in. Online tutoring is offered to distance learners. TLC is also a quiet study area (with side rooms designated for peer-to-peer tutoring) and a computer lab to complete academic coursework. Please call TLC in the Downing Student Union at (270) 745-5065 for more information or to schedule a tutoring appointment. [www.wku.edu/tlc](http://www.wku.edu/tlc)

### Libraries:

1. WKU Libraries has subject specialist faculty members who work with every department and program on campus.
2. Students can make an appointment with the subject specialist faculty librarian any time they have a paper or project.
3. As your own personal librarian, the subject specialist library faculty member sit down with students and helps them get started with their research, makes sure the students know how to use the online resources, etc.

. Students with disabilities: In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Student Accessibility Resource Center (SARC) in Downing Student Union 1074. The SARC telephone number is (270) 745-5004; TTY is (270) 745-3030. Per university policy, please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the SARC.

### **Pearson's MyLab & Mastering Student Registration Instructions**

To register for **Fall 2016 Introduction to Statistics**:

1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).
2. Under Register, select Student.
3. Confirm you have the information needed, then select OK! Register now.
4. Enter your instructor's course ID: **spraker34019**, and Continue.
5. Enter your existing Pearson account username and password to Sign In.  
You have an account if you have used a Pearson product, for example: MyMathLab, MyITLab, MyPsychLab, MySpanishLab or Mastering, such as MasteringBiology.  
If you don't have an account, select Create and complete the required fields.
6. Select an access option.  
Use the access code that came with your textbook or that you purchased separately from the bookstore.  
Buy access using a credit card or PayPal account.  
If available, get 14 days temporary access. (The link is near the bottom of the screen.)
7. From the confirmation page, select Go To My Courses.
8. On the My Courses page, select the course tile **Fall 2016 Introduction to Statistics** to start your work.

To sign in later:

1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).
2. Select Sign In.
3. Enter your Pearson account username and password, and Sign In.
4. Select the course tile **Fall 2016 Introduction to Statistics** to start your work.

To upgrade temporary access to full access:

1. Go to [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com).
2. Select Sign In.
3. Enter your Pearson account username and password, and Sign In.
4. Select Upgrade access from the course tile **Fall 2016 Introduction to Statistics**.
5. Enter an access code or purchase access with a credit card or PayPal account.

For a registration overview, go to [www.pearsonmylabandmastering.com/students/get-registered](http://www.pearsonmylabandmastering.com/students/get-registered). Scroll down to Need a little help? and select a video.