

# MATH 183: Introductory Statistics

## Section 1

Fall 2014

Dr. John Spraker

Office: COHH 3110

Office Phone: 745-6220 E-mail: [john.spraker@wku.edu](mailto:john.spraker@wku.edu) Webpage: [people.wku.edu/john.spraker](http://people.wku.edu/john.spraker)

Office Hours:

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

T 12:00-3:00

F 12:25-1:30

Class Meetings

TTH 9:35 – 10:55 TCCW 306

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 or MPE scores, or DMA 096C with grade of C or better (see [http://www.wku.edu/math/math\\_placement.php](http://www.wku.edu/math/math_placement.php)). (Gen Ed. D II) 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. Emphasis is on applied real world problems.

MATH 183: Introductory Statistics (3 hours) meets five learning objectives as part of the general education 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**

MyStatLab(W/Ebook for., *Elementary Statistics Using the TI-83/84 Plus Calculator* (4th Edition) by Triola). ISBN 9780321694645

- **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). The Course ID: spraker95206

### 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 Thursday Sept. 18**
- **Exam II Thursday Oct. 16**
- **Exam III Thursday Nov. 13**
  
- **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 **Tuesday Dec. 9 at 1:00.**

### Grading Scale

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

### Important Dates

Oct. 15: Last day to drop classes with a W.

Oct. 2-3 Fall Break

### Student Disability Services

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 Office for Student Disability Services in DUC A-200 of the Student Success Center in Downing University Center. Please **DO NOT** request accommodations directly from the instructor without a letter of accommodation from the Office for Student Disability Services

**Below you will find instructions for registering for MyStatLab. You must do this because all of the homework is online.**

## MyLab & Mastering Student Registration Instructions

### To register for Introductory Statistics:

1. Go to [pearsonmylabandmastering.com](https://pearsonmylabandmastering.com).
2. Under Register, click **Student**.
3. Enter your instructor's course ID: [spraker95206](#), and click **Continue**.
4. Sign in with an existing Pearson account or create an account:
  - If you have used a Pearson website (for example, MyITLab, Mastering, MyMathLab, or MyPsychLab), enter your Pearson username and password. Click **Sign in**.
  - If you do not have a Pearson account, click **Create**. Write down your new Pearson username and password to help you remember them.
5. Select an option to access your instructor's online course:
  - 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.
  - If available, get 14 days of temporary access. (Look for a link near the bottom of the page.)
6. Click **Go To Your Course** on the Confirmation page. Under MyLab & Mastering New Design on the left, click **Introductory Statistics** to start your work.

### Retaking or continuing a course?

If you are retaking this course or enrolling in another course with the same book, be sure to use your existing Pearson username and password. You will not need to pay again.

### To sign in later:

1. Go to [pearsonmylabandmastering.com](https://pearsonmylabandmastering.com).
2. Click **Sign in**.
3. Enter your Pearson account username and password. Click **Sign in**.
4. Under MyLab & Mastering New Design on the left, click **Introductory Statistics** to start your work.

### Additional Information

See **Students > Get Started** on the website for detailed instructions on registering with an access code, credit card, PayPal, or temporary access.