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### Course Description

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. Not accepted for credit toward a mathematics major or minor.

### Learning Objectives

This course fulfills the Quantitative Reasoning requirement in the Foundations category of WKU's Colonnade program. As part of that program, Math 183 has the following learning objectives: Students will demonstrate the ability to

1. Interpret information presented in mathematical and/or statistical forms.
2. Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically.
3. Determine when computations are needed and execute the appropriate computations.
4. Apply an appropriate model to the problem to be solved.
5. Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

### Prerequisites

At least one of the following criteria must be met to enroll in Math 183:

- Math ACT score of 22 or better     •Math SAT score of 510 or better
- A score of 14 or better on the WKU Math Placement Exam within the last year
- A score of 14 or better on the KYOTE College Algebra Exam within the last year
- A score of 50 or better on the COMPASS (College Algebra) within the last year
- Completion of DMA 096C with a grade of C or better

### Materials

- **Textbook is optional; the entire content of the textbook can be accessed online within the MyStatLab program.** If you desire a hard copy of the textbook, it is: Triola, M., Elementary Statistics Using the TI-83/84 Plus Calculator (4th Edition), 2014, Pearson. MyStatLab/eBook ISBN: 9780321694645
- **A subscription to MyStatLab is required.** Stand-alone online access can be purchased at the bookstore or online via MyStatLab. Check prices; it might be cheaper to purchase directly from Pearson! *If you have used this textbook before, you may not need to purchase MyStatLab access again; try to enroll in the MyStatLab course using your existing login information!*
- **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. If you have a TIInspire, it must have an 84 faceplate. TI-89s, TI-92s and any model calculators with CAS are prohibited. Cell phone calculators are not permitted!
- **Each student needs regular, reliable internet access.** You need to have a back-up plan for when your internet access is down. Any equipment problems (including internet outages) will not be considered a valid excuse for missing assignments!

## Course website

We will be using MyStatLab for the course homepage. Class documents, assignments, and announcements will be posted there. ***Please note that the email address you use to sign up for MyStatLab is the email to which most course announcements will be sent.*** Students should obtain lecture outlines and assignments from MyStatLab prior to class each day.

## Course Topics

**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. Here is a tentative outline of the material that we will cover:**

Chapter 1  
Chapter 2  
Chapter 3  
Chapter 10: Sections 1-3  
Chapter 4: Sections 1-7  
Chapter 5: Sections 1-4  
Chapter 6: Sections 1-6  
Chapter 7: Sections 1-4  
Chapter 8: Sections 1-5  
Chapter 11: Sections 1-3

## Attendance:

Attendance will be recorded each day, and regular attendance is expected. The WKU University Attendance Policy states the following in regard to attendance: "Excessive absenteeism may result in the instructor's dismissing the student from the class and recording a failing grade, unless the student officially withdraws from the class before the withdrawal deadline." For this class, **absence from more than 3 classes (whether excused or unexcused) will be considered excessive.** The instructor will note students who arrive late or leave early; such instances will be counted as an absence.

## Homework:

Homework will be assigned daily with specific deadlines for completion. Your instructor will indicate whether a particular assignment is to be completed on paper or online using MyStatLab.

## Quizzes and In-class Activities:

- Both announced and un-announced quizzes may be given. These quizzes may be either traditional paper-and-pencil quizzes or online quizzes using MyStatLab. Quizzes are not necessarily an indication of the depth of the material to be covered on the exams. No make-up quizzes will be given.
- In-class activities will be completed throughout the semester. These activities may or may not be announced ahead of time. No make-ups will be allowed.

## Exams:

Two or three exams will be given in this course prior to the final. Exams may be administered using MyStatLab, or they may be traditional paper-and-pencil exams. Make-up tests will only be given when a student presents evidence (prior to the test time) that he or she will be absent because of illness, death in the family, or university business. Make-ups must be taken within 2 days of the date missed. It is the student's responsibility to contact the instructor concerning the matter.

## Final Exam

The final exam will be comprehensive.

## Course Grade

A weighted average for this course will be calculated using the following scale.

Homework	10%
Quizzes/In-class Activities	10%
Exams	60%
Final Exam	20%

Letter grades will be assigned from the weighted average using the following grading scale.

A	90 - 100
B	80 - 89
C	70 - 79
D	60 - 69
F	59 and below

## Gradebook:

Grades will be posted on MyStatLab. Your overall average on MyStatLab is usually very accurate, however I reserve the right to make gradebook corrections to keep it consistent with the syllabus. If you see something that doesn't make sense, please alert me.

## Important Dates:

<b>Tuesday, June 20:</b>	The last day to withdraw from this course.
<b>Friday, July 7:</b>	Final Exam

## ADA Statement:

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at [sarc.connect@wku.edu](mailto:sarc.connect@wku.edu). Please do not request accommodations directly from the professor or instructor without a Faculty Notification Letter (FNL) from The Student Accessibility Resource Center.

## Academic Dishonesty:

Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the coursework in which the act is detected or a failing grade in the course without possibility of withdrawal. The faculty member may also present the case to the Office of Judicial Affairs for disciplinary sanctions.

## General statements:

- Make a friend in this class and exchange contact information. If you miss class, you will need to get the notes you missed from a classmate.
- Ask questions if a topic is unclear to you. Don't be shy. Questions help everyone!
- Check MyStatLab daily for announcements, course documents and homework assignments.
- **Silence cell phones during class.**

*THIS SYLLABUS IS SUBJECT TO REVISION UNTIL MONDAY, JUNE 5, 2017. INFORMATION ABOUT COURSE MATERIALS, HOWEVER, WILL **NOT** CHANGE.*