

Introduction to Statistics  
PBIS 189  
Spring 2014

Section 009 - TuTh, 3:00 – 4:00, Swart 240

Instructor: Mr. Michael (Mike) Skowronski

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Office Hours: MWF: 10:20 – 11:20, 1:50 – 2:50  
TuTh: 11:30 – 12:30, 1:50 – 2:50

Text: *Elementary Statistics Using the TI-83/84 Plus Calculator*, 3<sup>rd</sup> edition by Triola.

Calculator: TI83 or TI84 Graphic Calculator is required. Please bring to class daily.

Course Topics: The course will cover the following topics:

- Chapter 1 ... Introduction to Statistics (1.2 – 1.6)
- Chapter 2 ... Summarizing and Graphing Data (2.2 – 2.5)
- Chapter 3 ... Statistics for Describing, Exploring, and Comparing Data (3.2 – 3.4)
- Chapter 4 ... Probability (4.2 – 4.3)
- Chapter 5 ... Discrete Probability and Statistics (5.2 – 5.3)
- Chapter 6 ... Normal Probability Distributions (6.2 – 6.5)
- Chapter 7 ... Estimates and Sample Sizes (7.2 – 7.4)
- Chapter 8 ... Hypothesis Testing (8.2 – 8.5)
- Chapter 9 ... Inferences from Two Samples (9.2 – 9.4)
- Chapter 10 ... Correlation and Regression (10.2 – 10.3)

**Course Description:** We live in the digital age. We are inundated with data and polls. The ability to interpret and to analyze data that is presented in tables, graphs, and formulas are essential skills to compete in a global society. This course will develop and enhance these skills.

**Course Objectives:** This course focuses on critical thinking and active learning. Students will be engaged in problem solving and will come to understand that a “problem” is a situation that is unfamiliar and one for which a solution is not immediately evident. Being stuck is a natural state of problem solving and an essential part of improving thinking.

**Attendance:** Your attendance in the class is essential, not only for yourself but also for that of your peers. Some of the problems will involve small group discussions. Your participation in these discussions is an essential part of learning. If you must miss class for any reason, it is your responsibility to notify me prior to the absence, if possible, and to understand the content that you missed due to the absence. Your course grade may suffer if you miss too many class sessions. If you do miss class for an excusable reason, contact me regarding possible arrangements to collect late homework, retake missed quizzes or exams.

**Grading Scale:**

A: 93 – 100	A-: 90 – 92	B+: 87 – 89
B: 83 – 86	B-: 80 – 82	C+: 77 – 79
C: 70 – 76	D+: 67 – 69	D: 60 – 66
F: Below 60		

**Grading:** Your grade will be based on the following:

EXAM 1 – 25%, Chapters 1 - 3  
EXAM 2 – 25%, Chapters 4 - 7  
EXAM 3 – 25%, Chapters 8 - 10  
MISC. – 25% (Quizzes, homework, group activities)

**Quizzes:** There will be quizzes from time to time. These could be announced or unannounced. Homework problems make excellent quiz questions. Make-ups on quizzes will be allowed only for special situations.

**Homework:** Some problems will be suggested, and some will be collected and graded. These collected assignments will be announced in advance. NO late homework will be accepted.

**Exam Make-ups:** Make-ups for missed exams will be allowed in very special situations. If you expect to miss an exam, please attempt to notify me at least 24 hours in advance.

Section	Regular Problems – Not to Hand-in	Hand-in Problems
1.2	#1-25 odds	#6, 14, 22, 26
1.3	#1 – 31 odds	#4, 10, 16, 22, 32
1.4	#1-27 odds	#4, 8, 16, 18, 24
1.5	#1-25 odds	#4, 8, 14, 18, 24
1.6	#1-23	
2.2	#1-29 odds	#6, 10, 14, 16, 18, 22
2.3	#1-19 odds	#6, 8, 10, 14
2.4	#1-25 odds	#6, 12, 14, 22
2.5	#1-9 odds	#2, 6, 8
3.2	#1-23 odds, 27-33 odds	#8, 20, 24, 30
3.3	#1-23 odds, 27-35 odds	#8, 20, 24, 30, 34
3.4	#1-29 odds	#8, 10, 16, 22, 30
4.2	#1-37 odds	#10, 14, 20, 30, 34
4.3	#1-37 odds	#10, 16, 18, 30, 34
5.2	#1-29 odds	#6, 10, 16, 20, 26
5.3	#1-43 odds	#6, 24, 28, 30, 42
6.2	#1-51 odds	#10, 16, 30, 44, 50
6.3	#1-33 odds	#8, 10, 22, 26, 30
6.4	#1-11 odds	#6, 10, 18
6.5	#1-19 odds	#6, 10, 14, 18
7.2	#1-45 odds	#20, 22, 26, 32, 38
7.3	#1-35 odds	#10, 16, 22, 24
7.4	#1-31 odds	#14, 20, 22, 28
8.2	#1-43 odds	#10, 24, 28, 34, 38, 42
8.3	#1-33 odds	#6, 10, 12, 20
8.4	#1-19 odds	#8, 14, 18
8.5	#1-23 odds	#12, 14, 24
9.2	#1-35 odds	#8, 10, 16, 20, 26
9.3	#1-33 odds	#10, 18, 30
9.4	#1-21 odds	#6, 8, 12, 16
10.2	#1-29 odds	#6, 10, 16, 26
10.3	#1-29 odds	#10, 16, 26