

Tentative Syllabus Introductory Biobehavioral Statistics (PSY 204)

Instructor: Liana Hone, M.S.
Phone: (305) 284-5527
E-mail: lhone@psy.miami.edu
Location: Flipse 535

Time: WF 11:15–1:10
Office: Flipse 437
Office Hours: W 1:10–3:10 F 10:15–11:15
Final Exam: 12/05/2012

Course Description

This is an introductory course designed to acquaint you with the basic concepts, terminology, and applications of statistical methods used in the biological and behavioral sciences. We will cover how to use descriptive and inferential statistics to test hypotheses and how to use computer applications to aid statistical analyses.

Materials

You will need a basic calculator that can calculate squares and square roots in addition to basic functions. You may use a graphing calculator in class, but graphing calculators may not be used during quizzes or exams. You will also need a hard copy of the text book, pencils, and erasers.

Text

A hard copy of the text is required:

Pagano, R.R. (2012). *Understanding Statistics in the Behavioral Sciences* (10th ed.)*. Belmont, CA: Wadsworth Publishing. ISBN-10: 1111837260.

*If you decided to use the 9th ed., you are responsible for the changes in notation and page numbers.

Quizzes/Exams

Quizzes and exams comprise 80% of your grade and will be given on a regular a regular basis (about once a week) to help you keep up with the material and give you an idea of how you're doing. There will be ten quizzes and four exams. No makeup quizzes will be given however your two lowest quiz scores will be dropped. No makeup exams will be given except in the case of an extenuating circumstance with adequate notice.

Homework

Homework comprises 10% of your grade and there will be four assignments given to help you prepare for the exams. Though assignments are not due until the day of the exam, I encourage you to complete them early so that you will have time to email me questions or come to office hours if you run into problems. No makeups will be allowed—these are tools for you to use and the goal is to boost your grade by awarding you points for putting in time practicing for exams. Scoring will be on an all-or-nothing scale: Full credit if done with at least a moderate amount of effort and no credit if not done, or done with obvious minimal effort.

Participation and Attendance

Participation comprises 10% of your grade and will be based on involvement in class activities and attendance. You are expected to attend each class and though I will not be taking attendance, if you

are not in class to participate in activities, you cannot receive full credit. Acceptable reasons for absence include illness and family death. If you miss class, you are responsible for learning the material covered via contacting a classmate, studying the text, or seeking online resources. You will have a better chance of achieving the grade you want if you come to class and participate.

Extra Credit

If you are in good standing (completed 75% of the coursework to date), an extra credit assignment will be available for you to complete after the last day to drop the course has passed.

Academic Accommodations

The Office of Disability Services helps students with disabilities receive appropriate accommodations from the university and their professors. If you are registered with the Office of Disability Services, you must present your professor letters a minimum of two weeks prior to the desired use of the accommodation. Office of Disabilities is located in the Academic Resource Center in Whitten University Center N201. ODS staff can be reached at 284-2374 (Voice), 284-3401 (TDD), or 284-1999 (Fax). Office hours are 8:30 to 5:00 PM, Monday through Friday. You may email the office staff at disabilityservices@miami.edu for quick responses to questions.

Grading

40% Quizzes
40% Exams
10% Homework
10% Participation
05% Extra Credit

Academic Honesty

You are expected to follow the Honor Code of the University of Miami. The signed honor code – “*On my honor, I have neither given nor received any aid on this homework/quiz/exam.*” – will be required for all homework, quizzes, and exams. I encourage you to work together on the homework and when studying, but you need to hand in your own handwritten homework and be able to take quizzes/exams without aid. With regular attendance and participation, you can succeed in this course without compromising the Honor Code. Failure to follow the Honor Code will result in a failing grade in the course.

Tentative Schedule

Date	Topic	Reading	HW/Tests	Holidays
W Aug 22	Introduction	Chapter 1		
F Aug 24	Math & Measurement Concepts	Chapter 2		
W Aug 29	Frequency Distributions	Chapter 3	Quiz 1 <i>Chapters 1-2</i>	
F Aug 31	Central Tendency & Variability	Chapter 4		
W Sep 5	Variability, Normal Curve & z Scores	Chapter 5	Quiz 2 <i>Chapters 3-4</i>	
F Sep 7	Introduction to SPSS & Review			
W Sep 12	Exam 1		HW/Exam 1 <i>Chapters 1-5</i>	
F Sep 14	Correlation	Chapter 6		
W Sep 19	Regression	Chapter 7	Quiz 3 <i>Chapter 6</i>	Rosh Hashanah
F Sep 21	Regression			
W Sep 26	Random Sampling & Probability	Chapter 8	Quiz 4 <i>Chapter 7</i>	Yom Kippur
F Sep 28	Random Sampling & Probability & Review			
W Oct 3	Exam 2		HW/Exam 2 <i>Chapters 6-8</i>	
F Oct 5	Hypothesis Testing	Chapter 10		
W Oct 10	Hypothesis Testing			
F Oct 12	Power	Chapter 11	Quiz 5 <i>Chapter 10</i>	
W Oct 17	Power			
F Oct 19	Sampling Distributions	Chapter 12	Quiz 6 <i>Chapter 11</i>	
W Oct 24	z Tests			
F Oct 26	NO CLASS			Recess
W Oct 31	Single Samples t Test	Chapter 13	Quiz 7 <i>Chapter 12</i>	
F Nov 2	Corr. & Ind. Groups t Test & Review	Chapter 14	Quiz 8 <i>Chapter 13</i>	
W Nov 7	Exam 3		HW/Exam 3 <i>Chapters 10-14</i>	
F Nov 9	One-Way Analysis of Variance	Chapter 15		
W Nov 14	One-Way Analysis of Variance			
F Nov 16	Two-Way Analysis of Variance	Chapter 16	Quiz 9 <i>Chapter 15</i>	

W Nov 21 **Two-Way Analysis of Variance**

F Nov 23 **NO CLASS**

Thanksgiving

W Nov 28 **Nonparametric Tests**

Chapter 17

Quiz 10

Chapter 16

F Nov 30 **SPSS Applications & Review**

W Dec 5 **Exam 4**

HW/Exam 4

Chapters 15-17

