

QUANT. METH. (830:200:01-04) Dr. R. Karlin Spring, 2012

Lecture: T/Th 6 (Hill-114) 5:00-6:20 PM

R. Karlin: rakarlin@rci.rutgers.edu Office hour Tillet 517 Tuesdays 3:30 - 4:30

A. Grysman azi.grysman@gmail.com Office hour Tillet 407 Wednesdays 1:45 – 2:45 & BA

Sec. 1 (W-10:20) SEC 208 Sec. 2 (W at Noon) SEC-208

D. Cox: davidh.cox@rutgers.edu Office hour Busch Psych 325 4:15 – 5:15 Wednesdays & BA

Sec. 3 (Th 1:40) SEC-208 Sec. 4 (Th 3:20 SEC-210)

FIRST RECITATIONS: Sec. 1&2 = 2/1, Sec. 3&4= 2/2

Full schedule for recitations appears on p.5 below. The lengthy current syllabus for the course can be found after clicking on the "Resources" tab on this website.

TEXTBOOK: *Behavioral Statistics in Simple English, 5th Edition, Revision 1*. Make sure you get Revision 1. The text is available at NJ Books (opposite old campus at 108 Somerset St., New Brunswick) and the Rutgers Bookstore on Rt. 27 in NB and, I believe, at the Rutgers Bookstore on the Livingston Campus

Ignore the syllabus in the front of your book. An updated version appears online. Click on the Sakai website "Resources" tab. Please read the (lengthy) syllabus. It will save much grief. Especially note that this course is graded on a curve. The syllabus explains why and how.

Remember to look at the announcements section on this course website. Important course information will be posted there. Also make sure you are getting course announcements by email or get your email changed

Date Lecture and assignment

1/17 First class: Class business and self-scored math test

Assigned: Get book at New Jersey Books (108 Somerset St., New Bruns.) or at Rutgers Book Store. Read updated syllabus on Sakai (under resources).
Also assigned: Read Chapter 1 in textbook. Do Ch. 1 CPE.

1/19 Lecture: The basics: Mean, variance, & standard deviation

Due: Nothing due in class

Assigned: Read Chapter 2, Do CPE

1/24 Lecture: Frequency distributions: Actual and theoretical

Due: CPE Chapters 1 and 2

Assigned: Read Chapter 3, Do CPE

1/26 Lecture: The Normal Curve

Due: CPE Chapter 3

Assigned: Read Chapter 4, Do CPE 4.1-4.5.

FIRST RECITATIONS:

Sections 1 (W 10:20 SEC 208) and 2 (W noon SEC 208) meet Wednesday, 2/1

Section 3 (Th 1:40 SEC 208) and Section 4 (Th 3:20 SEC 210) meet Thursday, 2/2

1/31 Lecture: Z scores are THE scores

Due: CPE Chapter 4.1-4.5

Assigned: Review Chapter 4, Do CPE 4.6-4.9. Get to website.

2/2 Lecture: The standard error of the mean and Confidence Intervals

Due: CPE Chapter 4.6-4.9

Assigned: Read Chapter 5, Do CPE

2/7 Lecture: Estimating population parameters and degrees of freedom

Due: CPE Chapter 5

Assigned: Read Chapter 6, Do CPE

2/9 Lecture: The t distribution and estimated CIs

Due: CPE Chapter 6

Assigned: Read Chapter 7, Do CPE

2/14 Lecture: Correlation 1

Due: CPE Chapter 7

Assigned: Review Chapter 7,

2/16 Lecture: Correlation 2

Due: Nothing due in class

Assigned: Read Chapter 8, Do CPE

2/21 Lecture: Regression 1

Due: CPE Chapter 8

Assigned: Review Chapter 8, Correct CPE

2/23 Lecture: Regression 2

Due: Nothing due in class

2/28 Lecture: One way, unrelated groups ANOVA Lecture 1

Due: CPE Chapter 9

Assigned: Review Chapter 9

3/1 Lecture: One way, unrelated groups ANOVA - Lecture 2

Due: Nothing due in class

Assigned: Review for midterm: Chapter 1 - 8

3/6 Lecture: Midterm review: Ch. 1 – 8.

Due: Nothing due in class

Assigned: Review for midterm

3/7-8 MIDTERM Ch 1-8: Computational part – held in recitation rooms

This part is OPEN BOOKS, NOTES & CALCULATORS.

(Before exams, please wait outside of class. Seats will be assigned.)

3/8 MIDTERM Ch 1-8. Conceptual part – held in our lecture room

This part is CLOSED BOOKS, NOTES & CALCULATORS,

Assignment for after Spring Break: Read Chapter 10. Do CPE

NO CLASS – SPRING BREAK 3/10-3/18

3/20 Lecture: Review 1 way ANOVA. Start factorial ANOVA

Due: Chapter 10 CPE

Assigned: Review Ch.10

3/22 Lecture: Factorial ANOVA - Lecture 2

Due: Nothing due in class

Assigned: Chapter 11 Do CPE 11. 1 and 11.2

3/27 Lecture: The independent groups t test

Due: Nothing due in class

Assigned: Read Chapter 11.8 to end. Do CPE 11.3-11.7

3/29 Lecture: Multiple comparisons and experimentwise alpha

Due: CPE 11.3-11.7

Assigned: Read Chapter 12 through Summary 12.2, Do CPE

Note: The version of Chapter 12 that you should read is in the Resources section of the Sakai website and may be downloaded from there. It is NOT the (older) version of Chapter 12 in your book.

4/3 Lecture: Meta-analysis and comparisons across studies

Due: CPE 12.1-12.2

Assigned: Read remainder of Chapter 12, Do CPE

4/5 Lecture: Effect size and n

Due: CPE 12.3-12.5

Assigned: Read Chapter 13, Do CPE

4/10 Lecture: Assumptions underlying parametric stat & F_{MAX}

Due: CPE Chapter 13

Assigned: Read Chapter 14, Do CPE

4/12 Lecture: Chi Square

Due: CPE Chapter 14; EXTRA CREDIT DUE IN CLASS

Assigned Review for final

4/17 Lecture: Putting it all together conceptually

Due: Nothing due in class

Assigned Review for final

4/19 Lecture: Review Ch. 1 – 8 for final

Due: CPE Chapter 14; EXTRA CREDIT DUE IN CLASS

Assigned Review for final

4/24 Lecture: Review Ch. 9, 10 & 11 for final

Due: No assignment due in class

Assigned: Review for final

4/26 Lecture: Last Class - Review Ch. 12, 13 & 14 for final

(Please remember to use the Chapter 12 from the website, not the book.)

Assigned: Review for final

5/9 FINAL EXAM 4-7 PM. Probably in Hill 114.