

Dr. R. Karlin, Spring, 20013 QUANT. METH. (830:200)

Text: Karlin, R. *Behavioral Statistics In Simple English –5th Ed., Rev. 1*
Available at NJ Books and Rutgers Bookstore.

(Recitation schedule is shown after lecture schedule) **NO RECITATIONS UNTIL Feb 6 & 7**

R. Karlin: rakarlin@rci.rutgers.edu Office hours Psych Bldg 333 Th. 3:30-4:30

Lecture: T/Th Sect. 1-4 meets 5:00-6:20- in Hill 114

C. Wyszinski, christopher.w@rutgers.edu Office hours Psych Bleg 319 Th 12-1

Section 1 (W- 10:20) SEC 208

Section 3 (Th – 1:40) SEC 208

Mehgan McLean mehganmclean@rutgers.edu Office hours TBA

Section 2 (W- Noon) SEC 208

Section 4 (Th – 3:20) SEC 210

Date	Lecture and assignment
1/22	First class: Class business and basic math test Assigned: Get book (BSSE-5 th Edition. – Revision 1) at New Jersey Books (108 Somerset St., New Brunswick) & RU Bookstore. Read Chapter 1 in textbook.
1/24	Lecture: The basics: Mean, variance, & standard deviation Assigned: Read Chapter 2, Log onto Sakai website. Read syllabus (or at least look thru it).
1/29	Lecture: Frequency distributions: Actual and theoretical; Film: Graphic displays Assigned: Read Chapter 3
1/31	Lecture: The Normal Curve Assigned: Read Chapter 4.
2/5	Lecture: Z scores are THE scores (Remember, recitations begin this week, starting Tuesday, 1/30.) Assigned: Review Chapter 4, Go over CPE 4.7-4.9 (Start harder material)
2/7	Lecture: The standard error of the mean and Confidence intervals Assigned: Read Chapter 5
2/12	Lecture: Degrees of freedom and estimating population parameters Assigned: Read Chapter 6.
2/14	Lecture: The t distribution, estimated CIs, and hypothesis testing Assigned: Read Chapter 7
2/19	Lecture: Correlation 1 Assigned: Review Chapter 7
2/21	Lecture: Correlation 2 Assigned: Read Chapter 8
2/26	Lecture: Regression 1

	Assigned:	Review Chapter 8
2/28	Lecture:	Regression 2
	Assigned:	Review the null hypothesis, p levels, etc.
3/5	Lecture:	Hypothesis testing: H_0 and H_1, individual differences, and the limits of inference in correlational research.
	Assigned:	Review for midterm
3/7	Lecture:	Review for midterm - Chapters 1-6.
	Assigned:	Review for midterm
3/12	Lecture:	Review for midterm - Chapters 7-8.
	Assigned:	Review for midterm
3/14	MIDTERM EXAM Conceptual half in class (closed book). <u>Ch.1-8.</u> See recitation schedule for computational part of the exam.	
3/16-3/24 & 3/26	NO CLASS	Spring Break (16th – 24th) and Passover (the 26th)
	Assigned:	Read Chapter 9
3/28	Lecture:	Random assignment and the Experimental method One way, independent groups ANOVA 1
	Assigned:	Review Chapter 9
4/2	Lecture:	One way, independent groups ANOVA 2
	Assigned:	Read Chapter 10.
4/4	Lecture:	Factorial ANOVA 1
	Assigned:	Review Ch.10.
4/9	Lecture:	Factorial ANOVA 2
	Assigned:	Read Ch. 11.
4/11	Lecture:	One sample, repeated measures and independent groups t tests, n_{II}, and the standard error of the mean or of the difference between 2 independent means.
	Assigned:	Review Ch. 11.
4/16	Lecture:	The problem of multiple pairwise comparisons: Dunnett's t & Tukey's HSD
	Assigned:	Read Ch. 12 (New Chapter 12 – it is under the resources tab)
4/18	Lecture:	Determining beta, power, and sample size and (if time) some meta-analysis
	Assigned:	Read Chapter 13.
4/23	Lecture:	Assumptions underlying parametric statistics and using the F_{MAX} test
	Assigned	Read Chapter 14.
4/25	Lecture:	Chi Square
	Assigned:	Review for Final
4/30	Lecture:	Review for final (cumulative)
	Due:	COPY OF EXTRA CREDIT (ALSO SEE RECITATION SCHED.)
	Assigned	Review for final
5/2	Lecture:	Review for final (cumulative)
	Assigned	Review for final
5/15	FINAL EXAM: 4-7 PM Probably in Hill 114. CHECK FOR LOCATION.	

Recitation Schedule: First recitations =2/6 & 2/7 (No Recitations First 2 Weeks of Semester)

Dates:	Rec #:	Activity:
2/6-2/7	Rec 1:	Basics and the normal curve (Ch.1-3)
2/13-2/14	Rec 2:	Z scores, scale scores, standard errors and CIs. (Ch.4)
2/20-2/21	Rec 3:	t curves, df, standard errors and CIs with t (Ch. 5 – 6)
2/27-2/28	Rec 4:	Correlation (Ch.7)
3/6-3/7	Rec 5:	Regression and the null hypothesis (Ch.8)
3/13-3/14	Rec 6:	<u>MIDTERM</u> Computational part in recitation (open book, notes, calculators)
3/20-3/21		NO RECITATIONS
3/27-3/28		NO RECITATIONS
4/3 – 4/4	Rec 7:	Single factor designs: F tests and the t test (Ch.9)
4/10-4/11	Rec 8:	Factorial Anova (Ch. 10)
4/17-4/18	Rec 9:	t-tests & HSD (Ch.11)
4/24-4/25	Rec 10:	Power and F_{MAX} (Ch. 12 & 13)
5/1-5/2	Rec 11:	Chi Square (Ch. 14)

A review for the final may be scheduled by your recitation instructor during May. Check on this.