FUNDAMENTAL EXPERIMENTAL DESIGNS
(EDP 482K, BORICH)

Lecture Friday 9:00 - 11:30 (SZB 435)

Lab. SPSS software for completing the lecture and homework problems on PCs and Macs will be available in SZB 536 (there are four computers in an open lab in the large open area of the LTC). You will also be able to check laptops from the fleet for use inside the LTC any time that the fleet has not already been reserved for use by a professor for class. The SPSS Grad Pack can also be rented from IBM – more information can be found here: http://www-03.ibm.com/software/products/en/spss-stats-gradpack/. SPSS BASE should be sufficient for all of the labs for the course. All labs will be at your convenience at home or in SZB 536. Data sets for the lecture and homework problems can be found on Blackboard under *Assignments* in a folder labeled *Homework* and in the lab manual, which also includes an introduction to SPSS. **The TA will be available in the next week in SZB 518C for students who would like an introduction to SPSS on the 22nd Wed. & 24th Fri. from 1:30 to 2:30 PM & 27th Mon. from 11 AM to noon.**

Quizzes

MON 1:30-3pm	TUES 1:30-3pm	WED 1:30-3pm
Quiz 2/17 SZB 240	Quiz 2/18 SZB 422 *This quiz only 2-3:30 PM*	Quiz 2/19 GAR 1.126
Quiz 4/14 SZB 240	Quiz 4/15 SZB 330	Quiz 4/16 GAR 1.126

The teaching assistant will be available to assist with questions and the computer analysis of homework problems in SZB 535 in the collaborative study area on Tuesdays and Wednesdays from 1:30-3:00 PM and by appointment, excluding lab/quiz days. I will be available after class on Fridays in the classroom for small group discussion and follow-up as needed in my office, SZB 506M.

The calculations and solutions for the homework problems and additional information can be found on my Web Page: **http://ows.edb.utexas.edu/node/3610**

Texts

Required: Borich, G. (2012). Fundamental Experimental Designs (at UT COOP Bookstore or www.linusbooks.com 1-866-463-4456
Borich, G. (2012). SPSS Laboratory Manual and Command Files (Download at http://ows.edb.utexas.edu/node/3610)

Review Text: Borich, G. (2011) Fundamentals of Statistical Inference (at UT COOP or www.linlusbooks.com 1-866-463-4456)

Supplemental: Hinkelmann. K. (2007) Design and Analysis of Experiments
Kirk, R. (2012) Experimental Design.

My E-Mail: GaryBorich@austin.utexas.edu (TA Danny Swan) dswan@utexas.edu

Experimental Design Schedule 2014

Topic	Date	Text Page	Lab Page
1.Review of Introductory Concepts	1/17	1	3
[Introductory Lab 1/22, 1/24, 1/27]			
2. Introduction to Experimental Design	1/24	17	15
3. One-Way Analysis of Variance	1/31	29	31
4. Planned Comparisons	2/7	43	35
5. Post Hoc Comparisons	2/14	57	39
[1st Quiz 2/17, 2/18, 2/19]--10%]			
6. Factorial Designs	2/21	67	43
7. Higher Order Factorial Designs	2/28	85	53
8. Regression Analysis	3/7	99	61
[Spring Break]			
9. Review for Midterm	3/21		
10. **Midterm Exam [30%]**	3/28		
11. Randomized Blocks Designs	4/4	119	65
12. Repeated Measures Designs	4/4	131	
13. Nested Designs	4/11	143	79
14. Split-Plot Designs	4/11	153	85
[2nd Quiz 4/14, 4/15, 4/16]--10%]			
15. Analysis of Covariance	4/18	163	91
16. Overview of Some Multivariate Techniques	4/25	179	97
17. Review for Final	5/2		

18. **Comprehensive Final Exam [50%]**
(Final exam ***MUST*** be taken at the regularly scheduled time)

QUIZ ONLY SIGN-UP SHEET

[The Lab is *only* 22nd Wed. & 24th Fri.1:30-2:30 & 27th Mon. 11am-noon in SZB 518C]

MON.	TUE.	WED.
2/17, 4/14	2/18, 4/15	2/19, 4/16
1:30-3pm	1:30-3pm	1:30-3pm

QUIZ ONLY SIGN-UP SHEET

[The Lab is *only* 22nd Wed. & 24th Fri.1:30-2:30 & 27th Mon.11am-noon in SZB 518C]

MON.	TUE.	WED.
1/27, 2/17, 4/14	1/24, 2/18, 4/15	1/22, 2/19, 4/16
1:30-3pm	1:30-3pm	1:30-3pm