

47.269.201 Research I: Basics
FALL 2012 Weekly Schedule

Remember: Workshops & *self* quizzes are recommended. Do not hand them in but use them to test yourself. Repeat until you get 100% **Assignments** (A1-A10) and **Quizzes** are required and are in **bold**. **Assignments are due in class on the following TUESDAY.** Quizzes are all taken online and due on the last day of the week (Sunday at 11:59 pm). The topic for each week is relevant to your final Research Proposal in a way summarized by the comments & questions in italics.

Week	Begins	Topic	Reading	Recommended Workshops
1	9/6	<i>How do I begin? How do I do a library search? What is plagiarism?</i> Nature of Science & Research Process <ul style="list-style-type: none"> • Video: Understanding Research • A1: Library research <i>due 9/18</i> <ul style="list-style-type: none"> ○ Note part 1 due this week; part 2 by 12/2 	Ch 1 & 2	What is Science Evaluating Published Research Getting Ideas
2	9/11	<i>What is a minimal risk proposal?</i> Ethical Issues in Research <ul style="list-style-type: none"> • Quiz 1 (on Chap 1&2) • A2: NIH Protecting Human Research Participants <i>due 9/20</i> 	Ch. 4	Ethical Issues
3	9/18	<i>Making measurable items from big ideas</i> Defining & Measuring Variables <ul style="list-style-type: none"> • A3: Implicit Association <i>due 9/25</i> 	Ch. 3	Reliability & Validity Controls
4	9/25	<i>How to quantify what you want to measure</i> Describing Variables & Performance <ul style="list-style-type: none"> • Quiz 2 • Begin work on A4, post discussion 	Ch. 15 (p. 431-463) NOT including Supplementing Hypothesis Tests with Measures of Effect Size	Statistics Workshops Scales of Measurement Central Tendency Sampling Distb (p 1-9)
5	10/2	EXAM 1 Ch 1, 2, 3, 4, & pp. 416-438 <ul style="list-style-type: none"> • A4: Research Question <i>due 10/9</i> 	<i>Assignment 4 is the first step in heading toward your final research proposal. Be sure to start on this assignment early in the week so you will have time to ask questions and clarify ideas.</i>	
6	10/9	<i>Who will I study?</i> Selecting & Assigning Participants Research Strategies & Validity <ul style="list-style-type: none"> • A5: Sampling <i>due 10/16</i> • Quiz 3 	Ch. 5 & 6	Sampling Methods Confounds

7	10/16	<p><i>Recognizing designs I cannot propose</i> Descriptive and Correlational Designs</p> <ul style="list-style-type: none"> • A6: Health & stress <i>due 10/23</i> • Quiz 4 	Ch. 12 & 13	Nonexperimental Approaches Surveys Survey Design
8	10/23	<p><i>This is what my proposal needs to be.</i> Experimental Designs and Methods</p> <ul style="list-style-type: none"> • A7: Evolutionary Studies <i>due 10/30</i> • Quiz 5 	Ch. 7	True Experiments Manipulation Checks in Experimental Research
9	10/30	<p><i>One group or two?</i> Between & Within Designs</p> <ul style="list-style-type: none"> • A8: PLAN Research Proposal <i>due 11/6</i> • Quiz 6 	Ch. 8 & 9 (Skip—or skim—sects 8.6 and 9.4; more on those in week 12)	Between v. Within Designs
10	11/6	<p><i>Can I test more than one variable?</i> Beyond Main Effects: Factorial Designs</p> <ul style="list-style-type: none"> • A9: Factorial Designs <i>due 11/14</i> • Quiz 7 	Ch. 11	Common Mistakes in Student Research
11	11/14	<p>Plan feedback</p> <p>EXAM 2</p> <ul style="list-style-type: none"> • Ch. 5, 6, 7, 8, 9, 11, 12, & 13) 	<p><i>Suggest getting started on next week's readings & assignments this week. Especially read APA style section with respect to feedback on your research plan.</i></p>	
12	11/20	<p><i>What goes where & how will I write results?</i> Reporting research in APA style Inferential Statistics/Data Analysis Plan</p> <ul style="list-style-type: none"> • A 10: You're the editor <i>due 11/27</i> • Quiz 8 	Ch. 16; Purdue OWL site Ch. 8 & 9, sec 8.6 & 9.4 Ch. 15. Review from wk 4; Continue with Sect. 15.4 Examples of Hypothesis Tests	APA Style Hypothesis Testing
13	11/27	Final proposal review	12/2 Last date to submit Colloquia & A1, Part 2	
14	12/4	Proposal Presentations Final Research Proposal due 12/6/2012		
		Comprehensive Final Exam TBA		