

Psychology 2101
 Professor Steiger
 Fall, 2007

Tentative Schedule of Activities		
Date	Topic	Reading
Week 1		
08/30	Statistics and Critical Thinking – Some Informal Examples My new vacuum cleaner The true king of luxury cars Learning about our world Authority <i>Assignment:</i> Obtain textbook, Read Chapter 1	P: Chapter 1
08/31	NO MEETING	
Week 2		
09/04	Learning about our world (ctd) Rationalism Intuition Scientific method Scientific Research Manipulative (“True Experimental”) Non-Manipulative (“Correlational”) Some threats to validity in scientific research Kinds of Statistics Descriptive “Data Mining” “Graphical Analysis” Inferential Probability Theory	

09/06	Some Mathematical Preliminaries Subscript Notation Summation Algebra	P: Chapter 2 <i>Optional Reading:</i> <i>Summation Algebra Handout</i>
09/07	Tutorial Meeting 1	Review Guide Sheet 1 Homework 1
Week 3		
09/11	Levels of Measurement Permissible Transforms Levels of Accuracy Rounding Off Linear Interpolation	P: Chapter 2 <i>Optional Reading:</i> <i>Measurement Theory Handout</i>
09/13	Tabulating and Depicting Data with Frequency Distribution Plots Pictures for Quantitative Data Distribution displays Histogram Stem-leaf plot Stories Shape Can Tell	P Chapter 3 Lecture Slides
09/14	Tutorial Meeting 2 <i>Homework 1 must be handed in by the start of this period</i>	Lecture Slides
Week 4		
09/18	Estimating Percentile Points in Grouped Frequency Data Estimating Percentile Rank of a Score	P Chapter 3, 46–52
09/20	Central Tendency	P: Chapter 4, 66–75
09/21	Tutorial Meeting 3 <i>Homework 2 must be handed in by the start of this period</i>	

Week 5		
09/25	Variability	P: Chapter 4, 76–82
09/27	Shifting a Metric	
09/28	Tutorial Meeting 4 <i>Homework 3 must be handed in by the start of this period</i>	
Week 6		
10/02	Standard Scores and their Invariance Properties The Normal Curve	P: Chapter 5
10/04	More Normal Curve Calculations Midterm 1 Coverage Ends Here	
10/05	Tutorial Meeting 5 <i>Homework 4 must be handed in by the start of this period</i>	
Week 7		
10/09	Review/Catchup for Midterm 1	
10/11	Midterm 1	
10/12	Tutorial Meeting 6 Discussion of Midterm 1	
Week 8		
10/16	Covariance and Correlation	P: Chapter 6
10/18	Linear Regression, Multiple Regression, and Multiple Correlation	P: Chapter 7
10/19	<i>No Class</i>	
Week 9		
10/23	October Break – No Class	
10/25	Uses of Linear Regression Univariate vs. Bivariate Outliers Correlational Problems and Fallacies	
10/26	Tutorial Meeting 7 <i>Homework 5 must be handed in by the start of this period</i>	

Week 10		
10/30	Foundations of Probability Theory Computing Probability Conditional Probability and Independence The Product Rules	P: Chapter 8
11/01	The Keep it Alive Strategy Bayes' Theorem and Human Judgment	
11/02	Tutorial Meeting 8 <i>Homework 6 must be handed in by the start of this period</i>	
Week 11		
11/06	Combinatorics Permutations Combinations Permutations after Selection The Binomial Distribution	
11/08	More Combinatorics	
11/03	Tutorial Meeting 9 <i>Homework 7 must be handed in by the start of this period</i>	
Week 12		
11/13	Review and Catch-up for Midterm 2	
11/15	Midterm 2	
11/16	<i>No Tutorial</i>	
Week 13		
	<i>Thanksgiving Holiday NO CLASS</i>	

Week 14		
11/27	The Binomial Distribution The Normal Approximation to the Binomial The Sample Proportion Opinion Polls and their Accuracy	P: Chapter 9
11/29	Decision Making Under Uncertainty False Positives False Negatives Introduction to Hypothesis Testing – The Normal Deviate Test	P: Chapter 12
11/30	Tutorial Meeting 10 <i>Homework 8 must be handed in by the start of this period</i>	
Week 15		
12/04	Hypothesis Testing Continued	
12/06	Power and Error Rates	
12/07	Tutorial Meeting 11 <i>Homework 9 must be handed in by the start of this period</i>	
Week 15		
12/11	The 1-Sample t -Test The Correlated Sample t -Test	P: Chapter 13
12/13	The 2-Sample t -test <i>Last day of Class</i>	P: Chapter 14