Date	Topic	Assigned Activity
Wk01		
08/22	Course Introduction  Instructor Website at <a href="http://www.statpower.net">http://www.statpower.net</a> Statistics and Experiments  All of Life is an Experiment  An Incredible Electrolux  The King of Luxury Cars	Watch the following video on computer programming. <a href="http://www.youtube.com/watch?v=dU1xS07N-FA">http://www.youtube.com/watch?v=dU1xS07N-FA</a> Obtain a MindTap license code and sign into the Psychology 2101 MindTap website online. Instructions for doing this will be emailed to you, and are also available online <a href="here">here</a> .  Purchase or obtain a Turning Technologies Response Card "clicker" (Part #: RCXR-01) available at the bookstore. You must

Fr	Troubleshoot	
	Experimental Design Scenarios	
Wk03		
09/03	Reliability vs. Validity	For Thursday:
	Internal vs. External Validity	
	Threats to Validity	Online:
		Read GW Chapter 02 Frequency Distributions
		Do Pre-Lecture Quiz on Chapter 02 and submit for
		grading.
		Take Action Sheet 2 and record information while studying
		for next week's classes. Hand in Action Sheet 2 on Thursday
09/05	Mathematical Preliminaries:	For Tuesday:
	Subscript and Summation Notation	Online:
		Do Applia Frequency Distributions problem set and submit
		for grading.
		Too grading.
		Do Applia <i>Frequency Distributions</i> supplementary materials.
09/06	Discussion Section	

Wk04		
09/10	Discrete vs. Continuous Data	For Thursday:
	Nominal vs. Real Limits	·
	Levels of Measurement	Online:
	Frequency Distributions	
	Frequency	Read GW Chapter 03 Measures of Central Tendency
	Relative Frequency	Do Pre-Lecture Quiz on Chapter 03 and submit for
	Cumulative Frequency	grading.
	Cumulative Relative Frequency	
	Quantiles and Percentile Rank	Do Applia <i>Measures of Central Tendency</i> problem set and submit for grading.
	Histograms	
	Frequency Polygons	Do Applia Measures of Central Tendency supplementary
	Probability Density Plots	materials.
	Shape Characteristics	Sign onto PeerWise and submit at least two questions on
	Unimodal vs. Bimodal	material to be covered on the midterm.
	Symmetric vs. Skewed	
	Positive vs. Negative Skew	
09/12	Measures of Central Tendency	For next Tuesday:
	Mean	
	Median	Online:
	Mode	D. LOW CI At M. CV. LUI
	Computing a mean from a frequency distribution	Read GW Chapter 04 Measures of Variability
	Estimating a mean from a grouped frequency distribution	Do Pre-Lecture Quiz on Chapter 04 and submit for grading.
	The mean of combined groups	
	Effect of changing a score	Termination of Coverage for Quiz 01
	Effect of adding a number	
	Effect of deleting a number	Take and evaluate at least 4 questions by other students on
		PeerWise.
	"Listwise" operations	
	Effect of listwise operations on the mean	
	Termination of Coverage for Quiz 01	
09/13	Quiz 01 Review	

W05		
09/17	Measures of Variability	For Thursday:
	Range	
	Variance	Online:
	Standard Deviation	Do Applia Measures of Variability problem set and submit for
		grading.
	Population vs. Sample Formulas	(Optional) Do Applia Measures of Variability supplementary
		materials.
	"Theoretical" vs. "Computational" Formulas for	
	variance and standard deviation.	Start Doing Exam Practice Questions for Chapter 01, Chapter 02, Chapter 03
	Effect of listwise operations on the variance and	02, Chapter 03
	standard deviation	
	Standard deviation	
09/19	Review and Catch-Up	For Friday:
		Online:
		Do Part I Summary, and complete unfinished Exam Practice
		Questions
09/20	Midterm Quiz 01	

W06		
09/24	Pulling together Part I: What's In a List of Numbers? Location (Central Tendency) Spread (Variability) Shape  The Vulnerability Box and the Hierarchy of Vulnerability  Theoretical and Practical Applications of the Vulnerability Box  Linear Rescaling of Course Grades Score Standardization	For Thursday:  Read GW, Part II Introduction, and GW, Chapter 05, z-Scores: Location of Scores and Standardized Distributions  Do Pre-Lecture Quiz on Chapter 05 and submit Do Applia problem set on Chapter 05 and submit for grading for grading.
09/26	Basic Set Theory	For Next Tuesday  Read GW, Chapter 06  Do Pre-Lecture Quiz on Chapter 06 and submit  Install R on your computer. (Watch an instructional video here.)
09/27	Discussion Section and Exam Retrospective	

W07		
10/01	Introduction to Probability Two Kinds of Probability Distributions	For Thursday
	Discrete Continuous	Do Chapter 06 Applia Problems and Submit Bring Laptops to Class with R Installed
	The Normal Distribution and Z-Scores	Submit at least one question to PeerWise on Chapter 04, 05, or 06.  Read, answer, and evaluate at least 5 questions written by others on Peerwise.
10/03	An Introduction to R  Bring Laptops with R installed	
10/04	Discussion Section  Bring Laptops with R installed	Basic Calculations with R

W08		
10/08	An Introduction to R (continued) Normal Curve Calculations with R	For October 15: Read GW, Chapter 07
	Probability of a Sequence	Do Pre-Lecture Quiz Problems and submit for grading.
		Start doing practice exam questions for Chapters 04 through 07 in preparation for Midterm Quiz 02 on October 18
		or in propulation for Midderin Quiz 52 on Setoset 15
10/10	Fall Break	
10/11	Fall Break	
10/11	Tun Broak	
W09		
10/15	Samples, Statistics, and Sampling Distributions	For Thursday: Do Applia Assignment for Chapter 07 and
	The Sampling Distribution of the Sample Mean  Truncation of Coverage for Midterm Quiz 02	submit for grading
	Truncation of Coverage for Midterin Quiz 02	Complete practice exam questions for Chapters 04 through
		07, submit for grading.
10/17	Catalum and Davison for Onio 02	For Ortobar 22
10/17	Catchup and Review for Quiz 02	For October 22
		Read GW, Chapter 08
		Do Pre-Lecture Quiz on Chapter 08, submit for grading
10/18	Midterm Quiz 02	

W10		
10/22	Introduction to Hypothesis Testing	For Thursday – Finish reading GW Chapter 08
-		Do Applia Assignment for Chapter 08 and submit for grading
10/24	Statistical Inference vs. Probability Theory Decision-making under Uncertainty	
	The medical perspective	
	The 2x2 Table	
	The statistical perspective	
	The 2x2 Table	
	Hypothesis Testing Calculations Error Rates and the Error Rate Tradeoff Reject-Support Testing Accept-Support Testing Critical Values and Critical Regions Controlling alpha	
10/25	Discussion Section and Exam Retrospective	

W11		
10/29	Introduction to Hypothesis Testing (ctd) The Z-Statistic One-Tailed Tests Computing Power Standardized Effect Size Calculating Required n	For Thursday – Read GW Chapter 09 Do Pre-Lecture Quiz and submit for grading
10/31		For 11/05 GW Chapter 09 Do Applia Problem Set and submit for grading.  By 11/08 – Do Exam Practice Questions for Chapters 08–09, and submit for grading.
11/01	Discussion Section	
W12	Discussion Section	
11/05	Confidence Interval Logic The Relation between Confidence Intervals and Hypothesis Tests Student's t distribution General Facts Calculations in R  Truncation of Coverage for Midterm Quiz 03	
11/07	Review and Catch-up for Midterm Quiz 03	For 11/12  Read GW Chapter 10. Do Pre-Lecture Quiz and Submit for Grading  Do Chapter 10 Applia Problem Set and submit for grading
11/08	Midterm Quiz 03	

W13		
11/12	The 2-Sample Independent Sample <i>t</i> -Test Confidence Intervals and Effect Size Measures for the 2-Sample <i>t</i>	For Thursday –  Read GW Chapter 11. Do Applia Chapter 11 Pre-Lecture Quiz and Submit for Grading  Do Applia Chapter 11 Problem Set and Submit for grading
11/14	The Correlated Sample t	For 11/19: Read GW Chapter 14 Do Applia Chapter 14 Pre- Lecture Quiz and Submit for Grading  Do Applia Chapter 14 Problem Set and Submit for grading
11/15	Discussion Section and Exam Retrospective	
W14		
11/19	Correlation and Regression	For 11/21 Read GW Chapter 12 Do Applia Chapter 12 Pre- Lecture Quiz and Submit for Grading  Do Applia Chapter 12 Problem Set and Submit for Grading
11/21	Regression and ANOVA	By 12/03 Complete Exam Practice Questions for Chapters 9,10,11,12,14
11/22	Discussion Section	
W15		
11/26	No Class – Thanksgiving Break	
11/28	No Class – Thanksgiving Break	
11/29	No Class – Thanksgiving Break	
W16		
12/03	Review and Catch-Up	
12/05	Midterm Quiz 04	Will cover Chapters 10,11,14, and, optionally, 12