

	the basis of statistical methods and findings.	basis of statistical methods and findings.	the basis of statistical methods and findings.	
Clarity and Organization of Written Report (10%)	Written report is organized logically and presented clearly with effective transitions.	Written report is organized logically and presented clearly.	Written report is organized and some discussions are not clear.	Written report is not organized.
Oral Presentation (15%)	Overall presentation is creative and well organized with innovative ideas.	Overall presentation is creative and well organized.	Overall presentation is organized.	Overall presentation is not organized.

Additional Requirements
Quizzes Class Participation (seatwork and group exercises, homework, recitation) Computer hands-on exercises using SAS Final Examination

Grading System				
	FOR EXEMPTED STUDENTS (w/out Final Exam)	FOR STUDENTS with FINAL EXAM		Scale: 95-100% 4.0 89-94% 3.5 83-88% 3.0 78-82% 2.5 72-77% 2.0 66-71% 1.5 60-65% 1.0 <60% 0.0
		<i>with no missed quiz</i>	<i>With one missed quiz</i>	
Average of quizzes & Project	86%	60%	50%	
Class participation & Lab exercises	14%	10%	10%	
Final exam	-	30%	40%	

Learning Plan			
LEARNING OUTCOME	TOPIC	WEEK NO.	LEARNING ACTIVITIES
At the end of the course, the student will perform regression analysis, apply appropriate statistical concepts, processes, tools, and technologies in solving various conceptual and real-world problems.	1. Simple Linear Regression 1.1 The Problem and Motivation Behind Curve Fitting 1.2 Model Assumptions 1.3 Overview of Method of Estimation 1.4 Hypothesis Testing and Confidence Intervals for β_0 and β_1 1.5 Correlation: Inference and Relationship to Simple Linear Regression Model	12 hours / Weeks 1-4	Prior knowledge and beliefs survey Concept mapping Library work Group discussion and presentations Computer laboratory activity (SAS) Skills exercises Student self-assessment and reflection
	Quiz No. 1	1.5 hours / Week 5	
	2. Measures of Model Adequacy 2.1 Tests for Linearity 2.2 Tests for Normality 2.3 Tests for	4.5 hours / Weeks 5-6	

Online Resources

Big Data Analytics, Enterprise Analytics, Data Mining Software, Statistical Analysis, Predictive Analytics.

Accessed October 15, 2012 from: <http://www.statsoft.com>

Chen, X., Ender, P., Mitchell, M. and Wells, C. (2003). *Regression with SAS*, Accessed October 24, 2012

