

SU DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
 SYLLABUS (*Tentative*)
 MATH 314 *Intermediate Applied Statistics*

Objectives: To employ the techniques of intermediate applied statistics and interpret the findings with confidence. To utilize one of the common statistical packages such as SPSS, SAS, or MINITAB.

Intended for: Students who need a more advanced course in applied statistics in order to apply statistical methods to their own data and to interpret results of others.

Prerequisite: A Statistics course.

Text: "Regression Analysis: Statistical Modeling of a Response Variable," by Freund & Wilson; Academic Press, 2006.

		Weeks
Chapter 1	<i>The Analysis of Means</i>	1.5
Chapter 2	<i>Simple Linear Regression</i>	2.0
Chapter 3	<i>Multiple Linear Regression</i>	2.5
Chapter 4	<i>Problems with Observations</i>	1.5
Chapters 5-6	<i>Multicollinearity and Problems with the Model</i>	2.5
Chapter 8	<i>Intrinsically Linear and Nonlinear Models</i>	1.0
Chapter 10	<i>Categorical Response Variables</i>	1.0
Chapter 9	<i>The General Linear Model</i>	1.0
	<i>Tests</i>	<u>1.0</u>
		14.0

EVALUATION

Project	10%
Homework and quizzes	15%
Tests	50%
Final examination	25%

NOTE: ONCE A STUDENT HAS RECEIVED CREDIT, INCLUDING TRANSFER CREDIT, FOR A COURSE, CREDIT MAY NOT BE RECEIVED FOR ANY COURSE WITH MATERIAL THAT IS EQUIVALENT TO IT OR IS A PREREQUISITE FOR IT.