

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:** "Introduction to Regression Modeling," by Abraham and Ledolter; Duxbury 2006.

		<b>Weeks</b>
Chapter 1	<i>Introduction to Regression Models</i>	1.0
Chapter 2	<i>Simple Linear Regression</i>	1.5
Chapter 3	<i>Matrix Algebra</i>	0.5
Chapter 4	<i>Multiple Linear Regression Model</i>	2.5
Chapters 5	<i>Specification Issues</i>	1.0
Chapter 6	<i>Model Checking</i>	2.0
Chapter 7	<i>Model Selection</i>	1.5
Chapter 9	<i>Non-Linear Regression</i>	1.0
Chapter 11	<i>Logistic Regression</i>	1.0
Chapter 8	<i>Case Studies</i>	1.0
	<i>Tests</i>	1.0
		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.