



**Prince Sultan University**  
**Department of Mathematical Sciences**  
**SYLLABUS**

Dr. Bahaa Eldin Abdalla  
**Second Semester 2011 – 2012 (112)**

**Course** : STAT 271  
**Title** : Statistical Analysis  
**Textbook** : Elementary Statistics (A Step by Step Approach);  
 Allan G. Bluman; 8<sup>th</sup> Edition.

Week	Date	Sec.	Material
1	Jan. 28 – Feb. 01	Ch.6 7.1	Review of The Normal Distribution Confidence Intervals for the Mean When $\sigma$ Is Known and Sample Size
2	Feb. 04 – 08	7.2 7.3	Confidence Intervals for the Mean When $\sigma$ Is Unknown Confidence Intervals and Sample Size for Proportions
3	Feb. 11 – 15	7.4 8.1	Confidence Intervals for Variances and Standard Deviations Steps in Hypothesis Testing-Traditional Method
4	Feb. 18 – 22	8.2 8.3	$z$ Test for a Mean $t$ Test for a Mean
5	Feb. 25 – 29 <b>February 29</b>	8.4	$z$ Test for a Proportion <b>First Major Examination (7.1 – 8.4)</b>
6	March 03 – 07	8.5 9.1	$\chi^2$ Test for a Variance or Standard Deviation Testing the Difference Between Two Means: Using the $z$ Test
7	March 10 – 14	9.2 9.3	Testing the Difference Between Means of Independent samples: Using the $t$ Test Testing the Difference Between Two Means: Dependent samples
8	March 17 – 21	9.4	Testing the Difference Between Proportions
<b>Midterm Vacation (March 24 – 28)</b>			
9	Mar. 31– April 04	9.5 10.1	Testing the Difference Between Two Variances Scatter Plots and Correlation
10	April 07 – 11	10.2 10.3	Regression Coefficient of Determination and Standard Error of the Estimate
11	April 14 – 18 <b>April 18</b>	10.3	Coefficient of Determination and Standard Error of the Estimate <b>Second Major Examination (8.5 – 10.3)</b>
12	April 21 – 25	11.1 11.2	Test for Goodness of Fit Tests Using Contingency Tables
13	April 28 – May 02	12.1	One-Way Analysis of Variance
14	May 05 – 09	12.2 13.3	The Scheffe Test and the Tukey Test The Wilcoxon Rank Sum Test
15	May 12 – 16	13.5	The Kruskal-Wallis Test Review

**Grading Policy: Exam 1: 20%, Exam 2: 20 %, Quizzes: 10%, Participation:10%, Final: 40%**

*Best Wishes*