



Prince Sultan University
Department of Mathematical Sciences
SYLLABUS
Dr. Bahaa Eldin Abdalla
Second Semester 2011 – 2012 (112)

Course : STAT 101
Title : Introduction to Statistics and Probability Theory
Textbook : Elementary Statistics (A Step by Step Approach);
 Allan G. Bluman; 8th Edition.

Week	Date	Sec.	Material
1	Jan. 28 – Feb. 01	1.1 1.2	Descriptive and Inferential Statistics Variables and Types of Data
2	Feb. 04 – 08	1.3 1.4	Data Collection and Sampling Techniques Observational and Experimental Studies
3	Feb. 11 – 15	2.1 2.2	Organizing Data Histograms, Frequency Polygons, and Ogives
4	Feb. 18 – 22	2.3 3.1	Other Types of Graphs Measures of Central Tendency
5	Feb. 25 – 29	3.2 3.3	Measures of Variation Measures of Position
6	March 03 – 07 March 07	3.4	Exploratory Data Analysis First Major Examination (1.1 – 3.4)
7	March 10 – 14	4.1 4.2	Sample Spaces and Probability The Addition Rules for Probability
8	March 17 – 21	4.3	The Multiplication Rules and Conditional Probability
Midterm Vacation (March 24 – 28)			
9	Mar. 31– April 04	4.4 4.5	Counting Rules Probability and Counting Rules
10	April 07 – 11	5.1 5.2	Probability Distributions Mean, Variance, Standard Deviation, and Expectation
11	April 14 – 18	5.3 5.4	The Binomial Distribution Other Types of Distributions
12	April 21 – 25 April 25	5.4	Other Types of Distributions Second Major Examination (4.1 – 5.4)
13	April 28 – May 02	6.1 6.2	Normal distributions Applications of the Normal Distribution
14	May 05 – 09	6.3	The Central Limit Theorem
15	May 12 – 16	6.4	The Normal Approximation to the Binomial Distribution Review

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

Best Wishes