



Prince Sultan University
Department of Mathematical Science
SYLLABUS for
STAT 101 (Term 082)

Course : STAT 101
Title : Introduction to Statistics and Probability Theory
Textbook : Introduction to Probability & Statistics;
W. Mendenhall, R. Beaver, and B. Beaver; 12th Edition
Faculty member: Dr. Quazi Abdus Samad, **Email:** gsamad@oyp.psu.edu.sa
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Office hours: Sun, Tues (10-11am), **Room: E338**

Week#	Date	Text Sections	Topics
1	February 28 – March 4	1.1 1.2 1.3	Variables and Data Types of Variables Graphs for Categorical Data
2	March 7 -11	1.4 1.5 2.1	Graphs for Quantitative Data Relative Frequency Histograms Describing a Set of Data with Numerical Measures
3	March 14 – 18	2.2 2.3 2.4	Measures of Center Measures of Variability On the Practical Significance of the Standard Deviation
4	March 21 – 25	2.5 2.6 2.7 3.1 3.2	A Check on the Calculation of s Measures of Relative Standing The Box Plot Bivariate Data Graphs for Qualitative Variables
5	March 28 – April 1	3.3 3.4	Scatterplots for Tow Qualitative Variables Numerical Measures for Quantitative Bivariate Data
6	April 4 – 8	4.1 4.2	The Role of Probability in Statistics Events and the Sample Space Exam I; April 7, 2009 (1.1-3.4)
7	April 11 – 15	4.3 4.4 4.5	Calculating Probabilities Using Simple Events Useful Counting Rules Event Composition and Event Relations
8	April 18 – 22	4.6 4.7	Conditional Probability and Independence Bayes' Rule
Midterm break (April 25 – April 29)			
9	May 2 – 6	4.8 5.1 5.2	Discrete Random Variables & Their Prob. Distributions Introduction to Discrete Distributions The Binomial Probability Distribution
May 6, 2009 Last day for dropping course(s) with grade of "W"			
10	May 9 – 13	5.3 5.4	The Poisson Probability Distribution The Hypergeometric Probability Distribution Exam II; May 12, 2009 (4.1-5.2)
11	May 16 – 20	6.1 6.2	Probability Distributions for Continuous Random Variables The Normal Probability Distribution
May 13, 2009 Last day for withdrawal from all courses with grade of "W"			
12	May 23 – 27	6.3 6.4	Tabulated Areas of the Normal Probability Distribution Normal Approximation to the Binomial Prob. Distribution
13	May 30 - June – 3	7.1-7.2 7.3	Intro. & Sampling Plans and Experimental Designs Statistic and Sampling Distributions
14	June 6 – 10	7.4 7.5	The Central Limit Theorem The Sampling Distribution of the Sample Mean Exam III; June 9, 2009 (5.3-7.2)

	June 10, 2009 Last day for withdrawal from all courses with grade of “WP/WF”		
15	June 13 – 17	7.6	The sampling distribution of the sample proportion Review
	June 20 – 1 July		Final Examinations

Grading Policy:

Exam I: **15%**, Exam II: **15%**, Exam III: **15%**, Class Work: **15%**, Final Exam: **40%**

The class work grade is expected to reflect the performance of the student throughout the semester and is based on at least 15 quizzes, and 15 home works.

Class attendance:

- Students should not **miss** any class lecture without a legitimate excuse.
- If you **miss** a class with a legitimate excuse, you should contact the student's affairs within a week.
- In case a student **misses** a class, he must contact any one of his classmates to get all information and topics covered of classes he **missed**.
- “**DN Grade**” will be issued to a student who **misses 16 classes**. This means you cannot enter any more classes or exams. (**1st warning; 6 absences; 2nd warning; 11 absences**).
- It is your responsibility to **check** your number of absences regularly.
- It is very important that you are in the class **on all time**.
- The attendance will be taken during the **first 5 minutes** of the class. If you come to class after 5 minutes, you will be marked **absent**.
- From the past experience, **absence** is the biggest reason for failing, so make sure you are in class at all times.

Quizzes and Class work:

- Quizzes will be given at the **beginning** of the lessons. The quiz covers the materials discussed during the previous lectures and it will be similar or picked from examples, or the list of suggested HOMEWORK PROBLEMS you are given along with the syllabus.

(Remember that being absent or late for the lesson will deny you the quiz mark.)

(There is no make up for the missed quizzes)

Calculators:

- Scientific Calculators are required in this course in each class (No Graphing Calculators). So **you must bring the calculator with you in each class**. You will not be allowed to borrow calculators from others nor will you be allowed to use your mobile phones as calculators. If you do so, marks will be deducted in each occasion.

Books:

- You are required to bring the suggested text book(s) in the class on all occasions.

Other materials:

- Besides, you are required to bring **pen, pencil, paper (note book)** etc. in each class. You will not be allowed to borrow all these things from others.

General instruction: In case of any queries, information or help needed, please contact me during my office hour (Sundays & Tuesdays: 10-11am).

I wish you a productive and nice semester with me at PSU!