Course Outline

Course Title: Introduction to Probability and Statistics Course Code:STAT 270

Credits: 3
Section: C100
Course Description:

This is one of the first courses pinobability and mathematical statistics asic laws of probability, sample distributions, introduction tetatistical applications.

The course consists of the ollowing general topics:

- 1. Introduction to descriptive statistics
- 2. Concepts of probability artdols for calculating probability
- 3. Discrete distributions: Variates, expectations and Binomizand Poissons distributions
- 4. Continuous distributions: Normal, gamma, exponential distributions, normal approximation to Binomial distribution, jointly distributerandom variables, the central limit theorem
- 5. Inference: Single samples-estimation, hypothesis testing
- 6. Inference: Two samples-normal, large samples, and paired cases

Requisite:

Corequisite(s): MATH 152 or 155 or 158.

Students wishing an intuitive appreciation of a broad ranfigetistical strategies may wish to take STAT 100 first.

Quantitative.

Textbook:

- Devore, Jay L. PROBABLITY AND STATISTICS FOR GINEERING AND THE SCIENCE TH) Nelson (Brooks / Cole)

Course Material:

- Study Guide

Students must indicate Pickup or Mail when enrollinghen Student Information System (SIS), in order to receive the required courseaterial listed above

Course Requirements:

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Assignment/Exam	Percentage
Assignment 1	5%
Assignment 2	5%
Assignment 3	5%
Assignment 4	5%
Mid-term Exam	25%
Final Exam	55%

Requirements Notes:

To pass the course, you must pass the final exam.