



Guangdong University of Finance

2019 Summer Program

STAT 100 Basic Statistical Analysis

Course Syllabus

Term: June 3 – July 5, 2019

Class Hours: 14:00 - 15:50

Course Code: STAT 100

Instructor: Dr. Mahfuza Farooque

Home Institution: Pennsylvania State University, USA

Office Hours: TBA

Email: mff5187@psu.edu

Credit: 4

Class hours

This course will have 72 class hours, including 40 lecture hours, professor 10 office hours, 10-hour TA discussion sessions, 2-hour review sessions, 10-hour extra classes.

Course Description:

This is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, the normal curve, regression, probability, Testing the Difference Between Two Means, Two Variances, and Two Proportions, Correlation and Regression, Analysis of Variance



Course Objectives:

After this course, students will be able to:

- Demonstrate their understanding of descriptive statistics by practical application of quantitative reasoning
- Demonstrate their knowledge by making valid generalizations from sample data
- Develop basic concepts of probability, Correlation and Regression

Required Textbooks:

Elementary Statistics: A Step By Step Approach 10th Edition
by Allan Bluman

Grading:

Final grades will be computed per the following:

- Assignments: 10%
- Class Participation/ Quizzes: 10%
- Midterms: 30%
- Final: 50%

Letter grades will be assigned per the following scale which will be strictly followed.

- 90 – 100 % A
- 80 – 89% B
- 70 – 79% C
- 60 – 69% D
- 0 – 59% F



Course Schedule:

Week 1:

The Nature of Probability and Statistics
Frequency Distributions and Graphs

Week 2:

Data Description,
Probability and Counting Rules

Week 3:

Discrete Probability Distributions
The Normal Distribution

Week 4:

Confidence Intervals and Sample Size
Hypothesis Testing

Week 5:

Testing the Difference Between Two Means
Two Variances, and Two Proportions
Correlation and Regression
Analysis of Variance

Final Exam