Department of Statistics & Operation Research-King Saud University

First Semester 1440/1441

**Instructor:** Dr. Wissem Jedidi Office: 2B26 Email: wjedidi@ksu.edu.sa

**Lectures:** Sunday, 12:00 AM to 1 PM

**SYLLABUS STAT 106 – Biostatistics**

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| **Week** | **Title** |
| **W1** | Introduction to Statistics & Data Analysis |
| **W2** | Organizing and Displaying Data |
| **W3** | Basic Summary Statistics |
| **W4** | - Measures of Central Tendency: Mean, Median, Mode  - Measures of Dispersion: Variance, Standard Deviation, Coefficient of Variation |
| **W5** | - Calculating Measures from an Ungrouped Frequency Table  - Approximating Measures from Grouped Data |
| **W6** | Basic concepts of Probability |
| **W7** | Conditional Probability and the concept of independence |
| **W8** | Combinations, Probability Distributions |
| **First Term Exam (Monday 4/11/2019 from 5:00 to 6:30 PM)** | |
| **W9** | Discrete Probability Distributions |
| **W10** | Mean , Variance, and Cumulative Distribution Function |
| **W11** | Binomial Distribution, Poisson Distribution |
| **W12** | Continuous Distribution, Normal Distribution |
| **Second Term Exam (Monday 25/11/2019 from 3:00 to 4:30 PM)** | |
| **W13** | Central Limit Theorem, Estimation for the mean  for large samples |
| **W14** | Estimation for the proportion  for large samples |
| **Final Exam (Monday 19/04/1441 = 16/12/2019 from 8:00 to 10:00 AM)** | |

**Lecture Notes:** STAT– 106 BIOSTATISTICS, by Dr. Abdullah Al-Shiha, file:///C:/Users/User/Downloads/A1a.pdf

**Optional book:** Elementary Biostatistics with Applications from Saudi Arabia, Second Edition. N. A. E. Hasabelnaby

**Participation, Quizzes & Home works: 10%**

**Midterm I: 25% (up to the end of chapter 2)**

**Midterm II: 25% (Chapters 3 and 4)**

**Final Exam: 40% (Chapter 5)**