

Instructor: Prof. M. Kayid

Office: 2B15

Email: drkayid@ksu.edu.sa

Telf: 4676261

Mob: 0558727457

### COURSE SYLLABUS

Week	Title
W1 ( 26 /12/1438)	Introduction to Bio-Statistics, (1.1-1.4)
W2 ( 04/01/1439)	types of data and graphical representation, (1.1-1.4)
W3 ( 11/01/1439 )	Descriptive statistics: Measures of Central tendency- Mean , median, mode(2.1-2.6 (2.1-2.6 Excluding stem plot percentiles )
W4 ( 18/01/1439 )	Measures of dispersion-Range, Standard deviation, coefficient of Variation.(2.1-2.6 Excluding stem plot percentiles )
W5 ( 25/01/ 1439 )	Calculating Measures from an Ungrouped Frequency Table (2.1-2.6 Excluding stem plot percentiles )
W6 ( 02/02/1439 )	Basic probability. Conditional probability, concept of independence, sensitivity, specificity, (3.1-3.6)
W7 ( 09/02/1439 )	Bayes Theorem for predictive probabilities. (3.1-3.6)
Monday, 17/02/1439 05 / 02 / 1438 The First Term Exam ( 7 – 8.30 )	
W8 ( 16/02/1439)	Some discrete probability distributions: cumulative probability (4.1-4.4)
W9 ( 23/02/1439)	Binomial, and Poisson -their mean and variance (4.1-4.4Excluding the use of binomial and Poisson tables).
W10 (01/03/1439)	Continuous probability distributions: Normal distribution ( 4.5-4.8)
W11 (08/03/1439)	Standard normal distribution and t distributions ( 4.5-4.8)
W12 (15/03/1439)	Sampling with and without replacement, sampling distribution of one and two sample means and one and two proportions. ( 5.1-5.7 Excluding sampling without Replacement)
Wednesday ... 18/03/1439 The Second Term Exam (7 – 8.30)	

W13 (22/03/1439)	Statistical inference: Point and interval estimation, Type of errors, Concept of P-value (6.2-6.6. 7.1-7.6 Excluding Variances not equal page 181-182)
W14 (29/03/1439)	Testing hypothesis about one and two samples means and proportions including paired data – different cases under normality. (6.2-6.6. 7.1-7.6 Excluding Variances not equal page 181-182)
W15 (26/03/1438)	General reviewing
Course Delivery:	There are two lectures per week.
Grading Policy	Test No. 1 : 30 Marks (1.5 hours)
	Test No. 2 : 30 Marks (1.5 hours)
	Final Test :40 Marks (3 hours)
Text Book	Biostatistics: Basic Concepts and Methodology for the Heath Sciences by Wayne W. Daniel. [9th ed.] Books available from university book store below SAMBA bank. The book costs 70 Riyals for students.

**Grading Please we have announce in Cut clear way for all students from the beginning:**  
Participation, Quizes & Home works 0%

**Midterm I** 30%

**Midterm II** 30%

**Final Exam** 40%

### **Homework and exam policy**

Collaboration on homework assignments is encouraged. You may consult outside reference materials, other students, the instructor, or anyone else. There is one restriction: you must write, type, or otherwise record your answers yourself, alone, so that your homework reflects your understanding. No late homework or make-up exams without prior approval; penalties may apply.