



Sub.	Course Syllabus (البرنامج الدراسي) منهج المادة	الموضوع	 كلية المعرفة ALMAAREFA COLLEGE
Year	2015/2016	العام	

College	Al-Ma'arefa Science & Technology College (MSTC).
Department	Preparatory year

Course Code	Bio-Stat 101						
Course Name	Bio Statistics						
Credit Hours	3 (3 +0+0)						
Instructor	Riyadh Hussein						
Office & Office Hours	<table border="0"> <tr> <td>Sun</td> <td>9-10</td> </tr> <tr> <td>Mon</td> <td>10-11</td> </tr> <tr> <td>Wed</td> <td>11-12</td> </tr> </table>	Sun	9-10	Mon	10-11	Wed	11-12
Sun	9-10						
Mon	10-11						
Wed	11-12						
Email	rhussein@mcst.edu.sa						


Course Description	<p>This course is designed to provide the students with a basic understanding of biostatistics. The course covers of descriptive statistics with concepts of dispersion, central tendency measurements. Graphical and tabular displays are also covered. Simple inferential statistics involving probability, sampling, confidence intervals and tests of significance are presented. Simple linear regression and correlations are also covered. Understanding concepts and rational for various methods are emphasized with use of computer statistical software (such as Excel, SPSS) for graphs and calculations.</p>	
Prerequisite(s)	None	
Textbook(s) & Supplementary Materials	Pagano, Gauvreau. Principles of Biostatistics. 2nd edition.	
Student Outcomes (SO) Addressed by the Course	<p>Students who successfully complete this course should be able to correctly:</p> <ol style="list-style-type: none"> 1. Describe the key features of health data. 2. Present the data graphically and numerically. 3. Calculate and interpret mean, median, mode, ranges, variance, standard deviation and confidence intervals. 4. Perform statistical inference such confidence intervals and tests of significance. 	
Major Topics Covered	<ol style="list-style-type: none"> 1. Preliminary data analysis 2. Distributions and Probability 3. Inferential Statistics 4. Simple Linear Regression and Correlations. 	
Assessment &	<i>Homework Assignments</i>	5 Points
	<i>Attendance</i>	5 Points

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Evaluation Plan for the Course	<i>Quizzes</i>	10 Points
	<i>Two Midterm Exams</i>	20 Points for each
	<i>Final</i> Total marks	40 Points 100 Points
Policies	1. Three delays of attendance are considered as on absence. 2. Any student who has 25 % absence without excuse will be denied from the final exam. 3. Students may discuss homework, yet COPYING IS NOT ALLOWED . According the college penalty of plagiarism is failing the course.	

Calendar & Outline of Topics

WEEK	DATE	TOPICS	DUTIES/TASKS DUE DATES
1	23.08.2015	-----Introduction-----	-----
2	30.08.2015	Chapter 1: Organizing and displaying data Some basic definitions & Types of variables	
3	6.09.2015	Organizing the data.	QUIZ 1: Chapter 1
4	13.09.2015	Chapter 2: Basic Summary statistics Measures of central tendency: Mean, median, mode, percentiles and quartiles.	
5	20.09.2015	ADHA EID	
6	27.09.2015		
7	4.10.2015	Measures of dispersion: Range, variance, Standard deviation, coefficient of variation and variance, Measures of Asymmetry: Skewness	
8	11.10.2015	Chapter 3: Basic probability concepts General definitions and concepts	QUIZ 2: Chapter 2
9	18.10.2015	General probability rules	1st MID-TERM Chapter 1& 2
10	25.10.2015	Independent events & conditional probability	
11	1.11.2015	Chapter 4 : Probability distribution Probability distribution of discrete random variables & population mean	QUIZ 3: Chapter 3
12	8.11.2015	Binomial & poisson distributions	

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13	15.11.2015	Probability distribution of continuous random variables: Normal & standard normal distributions	2 nd MID-TERM
12	22.11.2015	Chapter 5: Estimations & tests of hypothesis Point estimation & interval estimation	
13	29.11.2015	Tests of hypothesis	H. W. Chapter 4 & 5
14	6.12.2015	Chapter 6: Correlation and linear regression	
15	13.12.2015	REVISION	
16	20.12.2015	FINAL EXAMS	
17	27.12.2015		
18	3.01.2016		