

Statistic and Probability
Section(1201)stat
First Semester 1439 / 1440

Instructor Information:

Website	Email	Office	Office hours	Instructor
http://fac.ksu.edu.sa/aalfifi/home	aalfifi@ksu.edu.sa	Building 26 Office 4	Sunday 8-11 Monday 11-12	Amal Al-fifi

Reference:

- -Biostatistics: A foundation in Analysis in the Health Science
By :Wayne W. Daniel
- -Elementary Biostatistics with Applications from Saudi Arabia
By : Nancy Hasabelnaby

Course Description:

(1201)stat course will cover the following topics:

Week NO.	topics	
1	Add and delete	
2	Introduction. Organization and presentation of data by tables and graphically	HW1
3	Measures of central tendency : arithmetic mean, Median, Mode	
4	Measures of dispersion : range, Variance , Standard deviation	Q1
5	Coefficient of variation. Chebychev inequality Counting techniques, permutations and combinations.	HW2
6	Principles of probability: random experiment, sample space, events and Algebra of events.	Q2
7	Midterm Examination- 1	Mid1
8	Probability : axioms of probability	HW3
9	Conditional probability, independent events, and Bayes theorem	

10	Random variables and probability distribution: sample space. Discrete random variables (probability mass function, expected value, variance)	Q3
11	Binomial distribution and poisson distribution	HW4
12	Midterm Examination- 2	Mid2
13	Continuous random variable: probability density function, normal distribution, standard normal distribution, calculating probability of normal distribution.	Q4
14	Review	

Grading Policy:

- Mid#1 20
- Mid#2 20
- 4 Quizzes 15
- 4Homework 5
- Final Exam 40

Class Rules:

- It is advised that you regularly check on the tutor's website. All the lectures and grades will be available on the site, which will be updated regularly.
- Attendance of lectures is crucial to comprehend the subject . Students who fail to attend and have 25% absence will be removed from the class.
- All students must be punctual. Those who attend late will be allowed to sit the lecture but will be marked as absent.
- Those who fail to attend the monthly examination will not get the opportunity to repeat the exam. Those with special circumstances such as bereavement of a close relative, or those who have recently undergone an operation are exempt from this rule .
- Weekly assessment will take place in the form of a quiz . No text books or notes can be used.

- Practical assessments will be conducted individually. Engaging in conversation with others while being assessed will terminate the assessment.
- Failure to attend practical assessments will not be compensated at another time even if you have a medical note.
- Homework that has been plagiarised will be given a grade of Zero.