

**Form (H)**  
**Short course description**

Course title: Data Analysis	Course number and code: STAT 339
Previous course requirement: STAT 332	Language of the course: English or Arabic
Course level:6 / Year 3	Effective hours:3 (2+0+2)

Course description وصف المقرر :

Introduction to Data Analysis. Introduction to statistical software SAS, SPSS and MINITAB. Types of Data: Study of qualitative and quantitative variable. Graphical representation of data, Normality... , Analysis of paired data. Criterion of Correlation for Qualitative and Quantitative data (Person, Spearman, Kappa test, Cochran–Armitage test for trend, Cronbach's alpha, Independents, Odds Ratio,.. ), Principal component Analysis ANOVA one and two ways, Multiple Regression Analysis, Analysis of Covariance (ANCOVA) Multiple Logistic regression. Clustering, k-mean, Time series analysis using SAS. This course is based on SAS or SPSS or MINITAB.

Course objectives أهداف المقرر

Students are expected to learn the nature of data

Learn who to select statistical method

Carry an appropriate statistical analysis

Learning outcomes (understanding, knowledge, and intellectual and scientific skills)  
After studying this course, the student is expected to be able to:

Students get familiar with the use of well-known Statistical packages

In general, they know how to use Statistics for a given data set

**Textbook adopted and supporting references**

Title of the book	Author's name	Publisher's name	Date of publication
SAS Documentations	<a href="http://www.ats.ucla.edu/stat/seminars/default.htm">http://www.ats.ucla.edu/stat/seminars/default.htm</a>	SAS	2018
<a href="#">Probability and Statistics for Engineers and Scientists</a>	<a href="#">Ronald E. Walpole</a> (Author), <a href="#">Raymond H. Myers</a> (Author), <a href="#">Sharon L. Myers</a> (Author), <a href="#">Keying E. Ye</a> (Author)	Prentice Hall	2011
Applied Linear Statistical Models	Michael H. Kutner EmOiy University Christopher J. Nachtsheim University of Minnesota John Neter	University of Georgia William Li University of Minnesota	2005