



Jordan University of Science and Technology
Faculty of Agriculture
Animal Production Department

AP213 Introduction To Biostatistics

Summer Semester 2019-2020

Course Catalog

3 Credit Hours. Basic statistical techniques useful in biological research including frequency distributions, statistical inference, and probabilities, correlation and regression.

Text Book

Title	BIostatISTICS A Foundation for Analysis in the Health Sciences
Author(s)	WAYNE W. DANIEL, CHAD L. CROSS
Edition	10th Edition
Short Name	Ref#1
Other Information	

Class Schedule & Room

Prerequisites

Line Number	Course Name	Prerequisite Type
901021	MATH102A Calculus 2 (For Biological Sciences)	Prerequisite / Pass

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	INTRODUCTION TO BIOSTATISTICS	From Ref#1
Weeks 2, 3	DESCRIPTIVE STATISTICS	From Ref#1
Weeks 4, 5	SOME BASIC PROBABILITY CONCEPTS	From Ref#1
Week 6	PROBABILITY DISTRIBUTIONS	From Ref#1

Week 7	SOME IMPORTANT SAMPLING DISTRIBUTIONS	From Ref#1
Weeks 8, 9	ESTIMATION	From Ref#1
Week 10	HYPOTHESIS TESTING	From Ref#1
Weeks 11, 12	SIMPLE LINEAR REGRESSION AND CORRELATION	From Ref#1

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Perform biostatistical analyses including data analysis techniques, measures of central tendency, measures of variation. [1SLO 2]	25%	
Apply methods of biostatistics to analysis of biological data and understand the effects of sample size on results. [1SLO 2, 1SLO 4]	25%	
Understand and apply the normal distribution and chi square distribution to biological data. [1SLO 2]	25%	
Use methods of inferential biostatistics including hypothesis testing, confidence interval evaluation. [1SLO 2]	25%	

Relationship to Program Student Outcomes (Out of 100%)			
SLO 1	SLO 2	SLO 3	SLO 4
	87.50		12.50

Evaluation	
Assessment Tool	Weight
first exam	25%

Policy	
Exams	Written exams will be a combination of True and False, Multiple Choice, fill in the blank, problems, and short essay questions. No makeup exams unless the student is excused. Makeup exams will not be the same exam given to the rest of the class
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the rules of JUST
Attendance	According to the Just policy: 20% of the total class count
Participation	Essential and highly encouraged
Withdraw	According to the timeline of JUST

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