

Course Syllabus

1	Course title	Biostatistics
2	Course number	5501221
3	Credit hours (theory, practical)	2
	Contact hours (theory, practical)	2
4	Prerequisites/corequisites	5401131
5	Program title	B.Sc. in Biological Science
6	Program code	-
7	Awarding institution	University of Jordan / Aqaba Branch
8	School	Faculty of Marine Sciences
9	Department	Coastal Environment
10	Level of course	Third and fourth year
11	Year of study and semester (s)	2019/2020 – Autumn Term
12	Final Qualification	B.Sc. in Biological Science
13	Other department (s) involved in teaching the course	NA
14	Language of Instruction	English
15	Date of production/revision	2019

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed. Office Number: 339 Office Hours: 12:00 – 1:00 Sunday, Tuesday, Thursday Phone Number: 35029 Email Address: w.hayek@ju.edu.jo

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

None

18. Course Description:

البيانات والمقاييس البيولوجية، الاختبارات المعلمية وغير المعلمية للنسب، تحليل البيانات ذات الفئات، وقياس المخاطر النسبية، تقييم الاختبارات المعملية (النوعية، الحساسية والاختبارات ذات الصلة) كفاءة اللقاحات، وظائف البقاء، اختبارات الاختلاف في منحنيات البقاء على قيد الحياة باستخدام جداول الحياة السريرية، منحنة الاستجابة للجرعة وتقدير الجرعات الفعالة.

19. Course aims and outcomes:

A- Aims:

- **B-** Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to
- 1. Understanding the basic concepts for statisctis
- 2. Ability to reflect the concepts on statistics in the biological field
- 3. Learning how to use the SPSS software
- 4. Ability to read and analyse the resultant biological statistics to come up with recommendations and conclusions.



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20. Topic Outline and Schedule:

Торіс	Week	Instructor	Achieved Intended Learning Outcomes	Evaluation Methods	Referenc e
Fundamentals of biostatistics	Week One	Dr. Wissam Hayek	Definitions of biostatistics Populations and samples Statistics and parameters		
Fundamentals of biostatistics	Week Two	Dr. Wissam Hayek	Statistical inferences Variables and their types		
SPSS Practicals	Week Three	Dr. Wissam Hayek	Applying the previous concepts on SPSS		
Data and their Representation	Week Four	Dr. Wissam Hayek	Data and their types	Homework	
Data and their Representation	Week Five	Dr. Wissam Hayek	Representation of data	Quizzes Participation	Different
SPSS Practicals	Week Six	Dr. Wissam Hayek	Applying the previous concepts on SPSS	Mid-term	sources
Numerical variables and measures	Week Seven	Dr. Wissam Hayek	Introducing the various types for numerical variables and measures	exam Final Exam	
SPSS Practicals	Practicals Week Eight Dr. Wissam Hayek Applying the concepts in week 7 using sppss dtistics in /! Week Nine Guest lecturer Being introduced on how to apply statistics in the biology field, and using other statistical programs dtistics in Week Ten Guest lecturer Being introduced on how to apply statistics in the biology field and using other		1		
Biostatistics in reality!					
Biostatistics in reality!			in the biology field, and using other		

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ANOVA Testing	Week Eleven	Dr. Wissam Hayek	Understanding the basic concepts related to ANOVA testing	
Correlation	Week Twelve	Dr. Wissam Hayek	Understanding the basic concepts related to correlation	
SPSS practicals	Week Thirteen	Dr. Wissam Hayek	Applying ANOVA and correlation using SPSS	



21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

- 1- Power point presentations
- 2- Discussions and questions
- 3- Presenting real case studies

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

- 1- Home works
- 2- Quizzes
- 3- Mid-term exam
- 4- Final exam

23. Course Policies:

A- Attendance policies:

- Absence from lectures shall not exceed 15%.
- Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the college shall not be allowed to take the final examination and shall receive a mark of zero for the course.
- If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

B- Absences from exams and handing in assignments on time:

• Absences without a medical or emergency excuse acceptable to and approved by the Dean of the college shall receive a mark of zero.

C- Health and safety procedures:

NA

D- Honesty policy regarding cheating, plagiarism, misbehaviour:

 Attempts to cheat during an exam or plagiarism for the written reports shall lead to a mark of zero in the exam or the home works and might lead to failure in the course with other consequences according to the regulations of the university.

E- E- Grading policy:

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Total:	100%
Final Exam	50%
Semester Work	20%
Mid-term Exam	30%

91-100	4	Α
86-90	3.75	A-
81-85	3.5	B +
76-80	3	В
71-75	2.75	B-
66-70	2.5	C+
61-65	2	С
56-60	1.75	C-
51-55	1.5	D+
46-50	1	D
40-45	0.75	D-
0-39	0	F

F- Available university services that support achievement in the course:

• Library sources and access to internet.

24. Required equipment: (Facilities, Tools, Labs, Training....)

Laptop and data show

25. References:

Required book (s), assigned reading and audio-visuals:

• Students will be supported with the material for the course at the end of each week.

Recommended books, materials, and media:

Various sources distributed on a weekly basis

26. Additional information:

Name of Course Coordinator: Dr. Wissam Al-Hayek Sep, 2019	Signature: Dr.	Wissam Al-Hayek	Date: 22 nd
Head of curriculum committee/Department:		Signature:	
Head of Department:		Signature:	
Head of curriculum committee/Faculty:		Signature:	
Dean:			