

Course E-Syllabus

1	Course title	Biochemistry
2	Course number	5501321
3	Credit hours	3
	Contact hours (theory, practical)	3
4	Prerequisites/corequisites	5501231
5	Program title	Biology
6	Program code	550
7	Awarding institution	The University of Jordan-Aqaba
8	School	Basic and Marine Sciences
9	Department	Marine Biology
10	Level of course	3 rd year
11	Year of study and semester (s)	2020/ second semester
12	Final Qualification	Bachelor Degree
13	Other department (s) involved in teaching the course	NA
14	Language of Instruction	English
15	Teaching methodology	<input checked="" type="checkbox"/> Blended <input type="checkbox"/> Online
16	Electronic platform(s)	<input type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....
17	Date of production/revision	2010/2020

18 Course Coordinator:

Name: Prof. Fuad Al-Horani Office number: Phone number: Email: fal_horani@hotmail.com
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19 Other instructors:

Name: Office number: Phone number: Email: Name: Office number: Phone number: Email:
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20 Course Description:

As stated in the approved study plan.

21 Course aims and outcomes:

A- Aims:

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course, students will be able to:

- * Know the structure and properties of amino acids, proteins, enzymes.
- * Know the enzyme regulation and kinetics.
- * know the basics metabolic pathways.
- * lipids and sugars.

22. Topic Outline and Schedule:

Week	Topic	Teaching Methods*/ platform	Evaluation Methods**	References
1	Water 2.2 Ionization of Water, weak acids and weak bases 2.3 Buffering against pH Changes in Biological Systems	Lecturing/ meetings/ online teaching	Homework, Quizzes, Exam	
2-4	Amino Acids, peptides and Proteins			
5-6	The Three-Dimensional Structure of Proteins			
7-8	Enzymes			
9-10	Carbohydrates and Glycobiology			
11-12	Lipids			
13-14	Introduction to Metabolism			

- Teaching methods include: Synchronous lecturing/meeting; Asynchronous lecturing/meeting
- Evaluation methods include: Homework, Quiz, Exam, pre-lab quiz...etc

23 Evaluation Methods:

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

Evaluation Activity	Mark	Topic(s)	Period (Week)	Platform
Mid Term examination	35%	As agreed-upon with students		When online, we use Microsoft teams and Microsoft forms . supported by zoom
Reports, research projects, Home works	15%	Agreed upon with students	Continued over time	When online, we use Microsoft teams and Microsoft forms . supported by zoom
Quizzes	10%	Specified after the end of each topic	All weeks	When online, we use Microsoft teams and Microsoft forms . supported by zoom

Final examination	40%	All material	When online, we use Microsoft teams and Microsoft forms . supported by zoom
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24 Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

students should have a computer, internet connection. Smart phone can do the job as well.

25 Course Policies:

- A- Attendance policies: as stated in the University Regulation.
- B- Absences from exams and submitting assignments on time: as stated in the University Regulation.
- C- Health and safety procedures: as stated in the University Regulation.
- D- Honesty policy regarding cheating, plagiarism, misbehavior: as stated in the University Regulation.
- E- Grading policy: As mentioned above
- F- Available university services that support achievement in the course: Library

26 References:

- A- Required book(s), assigned reading and audio-visuals:
 Title: Lehninger Principles of Biochemistry 5th Edition.
 Author(s); David L. Nelson and Michael M. Cox
 Publisher: W.H. Freeman and Company, New York

In addition to the above, the students will be provided with handouts by the lecturer.
- B- Recommended books, materials and media:

27 Additional information:

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Name of Course Coordinator: Prof. Fuad Al-Horani Signature: ----- Date: ---2nd Sem./20202

Head of Curriculum Committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of Curriculum Committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----