



**The University of Jordan**

**Accreditation & Quality Assurance Center**

**COURSE Syllabus**

1	Course title	<b>General Biology – lab</b>
2	Course number	<b>5501113</b>
3	<b>Credit hours (theory, practical)</b>	<b>1</b>
	<b>Contact hours (theory, practical)</b>	<b>3</b>
4	Prerequisites/corequisites	General biology 5501101
5	Program title	Bachelor in Biology
6	Program code	5501
7	Awarding institution	The University of Jordan-Aqaba
8	Faculty	Basic and Marine Sciences
9	Department	Biology
10	Level of course	First year
11	Year of study and semester (s)	First semester 2020/2021
12	Final Qualification	BSc.
13	Other department (s) involved in teaching the course	non
14	Language of Instruction	English
15	Date of production/revision	20/9/2020

**16. Course Coordinator:**

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

\*\* Instructor : Majduleen Sbaihat.

\*\* E-mail: [m.sbaihat@ju.edu.jo](mailto:m.sbaihat@ju.edu.jo)

\*\* Office hours: ( Sun., Mon., Tues.) → 10:00 -11:00 AM

\*\* Office #: Faculty of Marine Sciences – Room # 1

\*\* Phone Numbers : 032090450 Ext. 35079 & 36024

**17. Other instructors:**

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

**18. Course Description:**

*As stated in the approved study plan.*

Laboratory experiments in microscopy, mammalian anatomy & systematic of major living groups, ecology. Studying plant, animal tissues and organ.

**19. Course aims and outcomes:****outcomes:****A- Aims:**

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

- 1- Identify the parts of a compound microscope and explain their functions, and use a compound microscope to examine biological specimens.
- 2- Identify plant and animal cell organelles and describe their functions, also recognize the common features of cells.
- 3- Conduct tests to detect the presence of important biological macromolecules.
- 4- Define enzyme and describe how it catalyses cellular reactions.
- 5- Observe diffusion of substances in gas, liquid and semisolid medium and across semipermeable membrane.
- 6- Perform lab exercises that investigate the process of fermentation, cellular respiration and photosynthesis, and identify the by-products.
- 7- Define the following terms: mitosis, meiosis, homologous chromosomes, gamete, gonad, sperm and egg, also identify the different stages of mitosis and meiosis.
- 8- Define the plant and animal tissues; also distinguish the different type of them.

**B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...**

**Learning outcomes:****• Knowledge and understanding**

At the end of this module, students will be able to:

- 1- Types of microscopes and uses of each type , also should be know the parts of compound microscope.
- 2- Identify plant and animal cell organelles and describe their functions, also recognize the common features of cells.
- 3- Conduct tests to detect the presence of important biological macromolecules.
- 4- Define enzyme and describe how it catalyses cellular reactions.
- 5- Observe diffusion of substances in gas, liquid and semisolid medium and across semipermeable membrane.
- 6- Perform lab exercises that investigate the process of fermentation, cellular respiration and photosynthesis, and identify the by-products.
- 7- Define the following terms: mitosis, meiosis, homologous chromosomes, gamete, gonad, sperm and egg, also identify the different stages of mitosis and meiosis.
- 8- Define the plant and animal tissues; also distinguish the different type of them.

**• Cognitive skills (thinking and analysis).**

- The thinking skills will be developed by encouraging students to conclude answers to different questions that the instructor intends to use during the presentation of the scientific material.
- The instructor intends to stimulate the student's analytical thinking side via connections with general aspects in daily life or through questions, net searching, and home works.

**20. Topic Outline and Schedule:**

Week	Date	Topic
1	Oct. 12-2020	Introduction
2	Oct. 19-2020	The Microscope
3	Oct. 26-2020	The Cell
4	Nov. 2-2019	Biological Macromolecules
5	Nov. 9-2019	Biological Macromolecules
6	Nov. 16-2019	Enzymes
<b>MIDTERM EXAM</b>		
7	Nov. 23-2019	Physical Properties of The Cell
8	Nov. 30-2019	Metabolism
9	Dec. 7-2019	Cell Division (Mitosis)
10	Dec. 14-2019	Cell Division (Meiosis)
11	Dec. 21-2019	Plant Tissues
12	Dec. 28-2019	Animal Tissues
<b>FINAL EXAM</b>		

**21. Teaching Methods and Assignments:**

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

- Power point lectures, questions and discussions, videos, home works.
- Lab report fills after each lab.
- Assignments such as preparing of reports on topics related to the subject.
- Students are requested to present a power point presentation on a subject of his/her choice within the framework of the study material.
- Quizzes and evaluation of students.

**22. Evaluation Methods and Course Requirements:**

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

Quizzes  
Home work / Reports  
Attendance and Participation in the class  
Midterm Exam  
Final Exam

**23. Course Policies:****A- Attendance policies:**

I strongly recommend you attend every lab. Missing any lab will put you at a distinct disadvantage when test taken.  
2- Any student with three or more unexcused absences from lab can be legally dropped from the course.

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

The only valid excuses for missing an exam are: death in the family, illness, or accident. In this case you must provide evidence of some kind and you must report me within 3 days.

**C- Health and safety procedures:**

Students who miss the exam due to illness or other excuse must notify me within the first week after the exam, so make up arrangements can be Made.

**D- Honesty policy regarding cheating, plagiarism, misbehavior:**

1. Students are not expected to talk in class while the instructor is lecturing
2. After two warning of talking or any other classroom disruption, the Student will be automatically removed from the class.
3. Any act of cheating, or academic misconduct is subject to penalties.
4. The minimum penalty for any students caught cheating will receive a zero on that test.

**E- Grading policy:**

Type	Grading
Quizzes	10%
Reports	30%
Midterm exam:	20%
Final Exam:	40%
Total	100%

**Exams:** The examinations will consist of any combination of Multiple choice, short answer, fill in the blank, matching, identification of figures or essay questions.

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

Library sources are available, internet, laboratory facilities.

**24. Required equipment:**

1. Lab top
2. Data show
3. white board

**25. References:**

A- Required book (s), assigned reading and audio-visuals:  
Textbook: Biology Laboratory Manual, Editor: Shtaywy Abdalla, 2009.  
B- Recommended books, materials, and media:

**26. Additional information:**

Name of Course Coordinator: **Ins. Majduleen Sbaihat** Signature: ----- Date: **20/9/2020**

Head of curriculum committee/Department: ----- Signature: -----

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

Head of curriculum committee/Faculty: ----- Signature: -----

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

Copy to:  
Head of Department  
Assistant Dean for Quality Assurance  
Course File