



# Faculty of Medicine

Major: Doctor of Medicine

Academic Year: 2023/2024

Subject: General Biology

## COURSE SYLLABUS

Student's Copy

Updated version on 24<sup>th</sup> of Sep. 2023



## 1. Course information:

Theory		Practical	
Course Title:	Biology	Course Title:	
Course Code:	1002130	Course Code:	
Co-Requisite:		Co-Requisite:	
Prerequisite:		Prerequisite:	
Course Credit Hours:	2	Course Credit Hours:	
Class Location:	Faculty of Medicine	Class Location:	
Department: Basic Medical Sciences			

## 2. Instructor Contact Information:

Coordinator:	Dr. Noor Al-Saigh
Instructor(s):	Dr. Noor Al-Saigh
Email:	
Office:	
Office Hours:	



**3. Course Description:** This course introduces the principles and concepts of Biology as a vital subject for pharmacy and Medical Sciences students. Emphasis is on basic biological chemistry, Cell structure and function, Metabolism and Energy transformation, Structure of DNA and its Replication, Cell Cycle, Viruses, Classification and Phylogeny, Introduction to Microorganisms and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels.

#### **4. Resources Available to Students:**

Urry, L. A. Cain, M. L. Wasserman S. A. Minorsky, P. and Orr, R. B. (2020): *Campbell Biology* 12<sup>th</sup> edition. (New York. NY: Person).

#### **3. Teaching Methods**

- a. Lectures.
- b. Discussion and problem solving.
- c. Individual and groups activities.
- d. In- class competition.

#### **4. Intended Learning Outcomes (ILOs):**

Upon successful completion of this course students will be able to ...

1. **Explain** the major types of molecules that make up living organisms and how these molecules enable life functions, how organisms store genetic information and pass genetic and epi genetic information from one generation to the next, and how organisms obtain and use matter and energy to live and grow.
2. **Understand** the importance of Biology as a vital and basic branch of science.
3. **Describe** the control of gene expression, viruses, gene cloning, cell cycle, classification and phylogeny, bacteria and archaea, protists, plant diversity, plant structure and function, plant hormones, animal diversity, human nutrition, human circulatory, respiratory and excretory systems.
4. **Apply their knowledge** to understand subjects such as: molecular biology, virology, microbiology, mycology.
5. **Write** a scientific assignment as homework.



## 5. Course Policies:

**To be explained to students at the first meeting:**

### 1. Attendance Policies:

#### A. Attendance Policy (absences and tardiness for a traditional course):

- a. Students must attend all classes of this course.
- b. Any student with an absence of 15% of the classes of any course, will be illegible to sit for the final exam and will result in a failing grade being assigned in this course.
- c. Excused absences include documented illness, deaths in the family, and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have valid excuses. Consideration will also be given to students whose dependent children experience serious illnesses.
- d. Students with a legitimate reason to miss a required activity must request an approved absence through Student Academics. Unexcused absence from a scheduled examination or quiz may result in (0 %) being assigned for that assessment. Unexcused absence from an activity for which attendance is may be considered an issue of Professionalism.
- e. Any student who arrives late will not be allowed to attend the class and will be marked absent.

#### B. Exam Attendance:

- a. A student who is more than 10 minutes late, will not be permitted to submit the exam.
- b. A student who is late more than 30 minutes will not be permitted to submit the final exam, and no student will be permitted to leave the exam center before the elapse of 30 minutes.

### 2. Exams Policies:

- a. Students are expected to take their exams on time and as scheduled by their instructors.
- b. Student who are unable to take (quiz, midterm or final) exam due to any reason should contact their instructor immediately.



- c. Make-up exams are of the responsibility of faculty committee.
  - d. A final exam, paper, or project is required in all courses.
  - e. Seminars and workshops are included in evaluation criteria.
  - f. Only registered undergraduate and graduate credit students are allowed to take final exams.
  - g. If you are unable to take the final exam at the scheduled time without any acceptable excuse, you may not be allowed to rearrange the final exam separately (Make-up).
  - h. If you attend the final exam and do not submit the exam sheet, or do not complete the exam for any reason, you are not allowed to complete the final exam at another time or appeal for a final make-up exam and will be assigned failing for the final exam.
  - i. If you do not take your final exam and did not withdraw from the course by the withdrawal deadline you will assign a failing grade for the final exam.
- 3. Cheating Policies:** Cheating is officially defined as giving or attempting to give, obtaining or attempting to obtain, information relative to an examination or other work that the student is expected to do alone and not in collaboration with others, or the use of material or information restricted by the instructor. Plagiarism is no lesser an offense than cheating, it means repeating another's sentences as your own, adopting a particularly apt phrase as your own, paraphrasing someone else's argument as your own, and presenting someone else's line of thinking in the development of a thesis as though it were your own.
- 4. Penalty for cheating and plagiarism:** The failing grade, shall be assigned for that piece of work to any students cheating or plagiarizing.
- 5. Mobiles:** Mobile phones should be kept turned off or silent while in class. Usage of mobile phones is not allowed in classes in any form (talking and/or texting).



## 6. Course Grading Criteria:

Assessment Tools	Weight (100%)	Description
Exams (Midterm and Final)	100%	<ul style="list-style-type: none"><li>- MCQs and fill in the space questions</li><li>- True/ False</li><li>- Short essay</li><li>- Matching</li><li>- Identifying structures in drawing.</li></ul>
Quizzes and other assessments	0%	<ul style="list-style-type: none"><li>- MCQs and fill in the space questions</li><li>- True/ False</li></ul>

## 7. Course Outlines/ Schedule:

Week	Topic	Chapter	Estimated number of hours	Teaching method		ILOs
				Theoretical Lectures	Practical Laboratories	
1	Water and Life	Chapter 3	2	√	-	1, 2, 3, 4
2	Membrane Structure and Function	Chapter 7	2	√	-	1, 2, 3, 4
3	A Tour of the Cell	Chapter 6	2	√	-	1, 2, 3, 4
4	Macromolecules	Chapter 5	1	√	-	1, 2, 3, 4
4, 5	Introduction to metabolism	Chapter 8	3	√	-	1, 2, 3, 4
6, 7	Cellular Respiration	Chapter 9	3	√	-	1, 2, 3, 4
7	DNA structure	Chapter 16	1	√	-	1, 2, 3, 4
8	Midterm Written Exam			√	-	1, 2, 3, 4, 5
9, 10	The Cell Cycle	Chapter 12	3	√	-	1, 2, 3, 4
10, 11	Meiosis and Sexual Life Cycle	Chapter 13	3			
12	Viruses	Chapter 19	2	√	-	1, 2, 3, 4
13	Phylogeny and The Tree of Life	Chapter 26	3	√	-	1, 2, 3, 4
14	Bacteria and Archaea	Chapter 27	2	√	-	1, 2, 3, 4



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15	Final Written Exam			√		1, 2, 3, 4, 5
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