



**Syllabus**  
**Biochemistry and molecular biology**  
**Summer 2023-2024**  
**School of Medicine, The University of Jordan**  
**Prof. Mamoun Ahram, Dr. Diala Abu Hassan**

Week	Data	Topic
1	July 8	Introduction
	July 9	Acids and bases
	July 10	pH and buffer
	July 11	pH and buffer
2	July 14	Carbohydrates
	July 15	Carbohydrates
	July 16	Carbohydrates
	July 17	Lipids
	July 18	Lipids
3	July 21	Lipids
	July 22	Nucleic acids
	July 23	Amino acids
	July 24	Amino acids-ionization
	July 25	Peptides
4	July 28	Proteins
	July 29	Proteins
	July 30	Proteins
	July 31	Fibrous proteins
	August 1	Mid-exam break (up to fibrous proteins)
5	August 4	Globular proteins (myoglobin and hemoglobin)
	August 5	Regulation of hemoglobin
	August 6	Plasma proteins
	August 7	Immunoglobulins
	August 8	Enzymes-introduction
6	August 11	Enzymes-kinetics
	August 12	Enzymes-regulation
	August 13	Enzymes-regulation
	August 14	Enzymes-regulation
	August 15	Enzymes-cofactors
7	August 18	Lipid-soluble vitamins
	August 19	Biochemical techniques I
	August 20	Biochemical techniques II
	August 21	Review
8	August 25- September 1	Final exam

- Recommended textbooks
  - Marks' Basic Medical Biochemistry: A Clinical Approach 5th Edition, by Michael Lieberman (Author), Alisa Peet MD (Author), 2018
  - Biochemistry 8<sup>th</sup> edition by Mary Campbell (Author) and Shawn Farrell (Author)

Online resource:

<https://themedicalbiochemistrypage.org/>