



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Clinical chemistry 1
2	Course number	0308343
3	Credit hours (theory)	2
	Contact hours (theory, practical)	Sunday-Tuesday
4	Prerequisites/co-requisites	Biochemistry
5	Program title	Bachelor of Medical Laboratory Sciences
6	Program code	
7	Awarding institution	University of Jordan
8	Faculty	Science
9	Department	Medical Laboratory Sciences
10	Level of course	Second Year
11	Year of study and semester (s)	Second Semester 2017/2018
12	Final Qualification	B.Sc. in Medical Laboratory Sciences
13	Other department (s) involved in teaching the course	none
14	Language of Instruction	English
15	Date of production/revision	2018

16. Course Coordinator:

Professor Muayad M. Abboud, PhD
 Part-timer, Phone number: 0796875550
 Email: muayadabboud@gmail.com

Office hours: by appointment

17. Other instructors:

None

18. Course Description:

This course describes the principles of clinical biochemistry in the management of diseases. The scope of this course covers the type of requested diagnostic tests, normal and abnormal carbohydrates, lipids and proteins metabolism. The outcome of abnormal metabolism on the development of diabetes, dyslipidemia, atherosclerosis, obesity, and metabolic disorders. Further knowledge will be obtained on alcohol abuse, gout disease, porphyria and diseases related to vitamins deficiency.

1. 19. Course aims and outcomes:

2.

A- Aims:

This is an introductory course which can provide the student with some basic knowledge on routine biochemical tests and the objectives of their request.

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

1. The principle of routine biochemical tests
2. The normal and abnormal homeostasis of blood chemical analytes
3. How the blood levels of analytes is manipulated to diagnose certain diseases.
4. The use of biochemical tests in monitoring disease prognosis

20. Topic Outline and Schedule:

1. Introduction to clinical biochemistry
2. Diagnostic tests and the objective of their request
3. Normal and abnormal carbohydrate metabolism
4. Regulation of glucose homeostasis in the blood
5. Diabetes as a disorder of carbohydrate metabolism
6. Lipids and lipoproteins metabolism
1st Exam
7. Dyslipidemia as a disorder of lipid metabolism
8. Atherosclerosis and plaque formation in cardiovascular diseases
9. Obesity as a metabolic disorder
10. Biochemistry of alcohol abuse.
11. Disorders of porphyrin metabolism
2nd Exam
12. Vitamins and their deficiencies in certain metabolic disorders
13. Biochemical analysis of cerebrospinal fluid
Final Exam

21. Teaching Methods and Assignments:

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

Interactive lecture using data show
Office hour discussions
Quizzes

22. Evaluation Methods and Course Requirements:

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

Exams

23. Course Policies:

A- Attendance policies: Regular class attendance is expected, attendance by seating number.

B- Absences from exams and handing in assignments on time: Reporting a valid reason of absence is accepted.

C- Health and safety procedures: All students should comply with the university health and safety procedures

D- Honesty policy regarding cheating, plagiarism, misbehaviour: All students should comply with the university Honesty policy regarding cheating, plagiarism, misbehaviour

E- Grading policy: Depends on average

First Exam	30 %
Second Exam	30 %
Final Exam	40 %
Including 25% practical	

24. Required equipment:

Available university services that support achievement in the course:

Data Show Projector, internet access

25. References:

3. Clinical chemistry 6th edition by Bishop

26. Additional information:

None

Name of Course Coordinator: Professor Muayad Abboud Signature: ----- Date:

4/4/2018

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

Head of Department: Signature: -----

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

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

Assurance

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Head of Department
Assistant Dean for Quality

Course File