Course Syllabus

1	**Course title**	Correlation of laboratory results
2	**Course number**	0308472
3	**Credit hours**	2 hrs
	Contact hours (theory, practical)	2 hrs (2 theroy)
4	**Prerequisites/corequisites**	Clinical Chemistry 2
5	**Program title**	Bachelor of Clinical Laboratory Sciences
6	**Program code**	0308
7	**Awarding institution**	University of Jordan
8	**School**	Science
9	**Department**	Clinical Laboratory Sciences
10	**Course level**	Fourth Year
11	**Year of study and semester (s)**	Second Semester 2023/2024
12	**Other department (s) involved in teaching the course**	
13	**Main teaching language**	English
14	**Delivery method**	☒Face to face learning ☐Blended ☐Fully online
15	**Online platforms(s)**	☒Moodle ☒Microsoft Teams ☐Skype ☐Zoom ☐Others……
16	**Issuing/Revision Date**	**25/2/2024**

17 Course Coordinator:

Name: Abeer AlQatati **Contact hours:**
Office number: 1st Floor-Biology building **Phone number** 0797994080
Email: a.alqatati@ju.edu.jo

18 Other instructors:

Name:

Office number:

Phone number:

Email:

Contact hours:

19 Course Description:

This course centers on the pivotal role of laboratories in diagnosing and managing diseases, covering a range of analyses and providing concise overviews of prevalent disorders across different bodily systems. Students will leverage this knowledge to identify potential inconsistencies in laboratory test outcomes, contributing to quality management initiatives and fostering a deeper understanding of the laboratory's significance in disease diagnosis and management.

20 Course aims and outcomes:

A- **Aims:**

This course can provide the student with some basic knowledge on the role of the lab in disease diagnosis and management.

B- **Students Learning Outcomes (SLOs):**

For purposes of mapping the course SLOs to the MLS program SLOs, upon the successful completion of the program, graduates are expected to be able to:

SLO(1). Understand and apply the theoretical foundations of medical laboratory sciences to accurately calibrate and operate advanced laboratory equipment.

SLO(2). Demonstrate knowledge of safety protocols, Ministry of Health regulations, and environmental preservation practices when handling samples of pathogens and chemical/biological risks.

SOL(3). Acquire in-depth technical knowledge to stay abreast of scientific advancements and actively participate in local and global applied research in the field.

SOL(4). Perform diverse analyses and effectively interpret results for various clinical samples across laboratory disciplines such as hematology, clinical chemistry, microbiology, urine analysis, body fluids, molecular diagnostics, and immunology.

SOL(5). Apply practical training to solve complex problems, troubleshoot issues, and interpret results, ensuring a connection between data and specific medical conditions for precise diagnosis.

SOL(6). Show effective communication skills to convey information accurately and appropriately in a laboratory setting.

SOL(7). Demonstrate a commitment to lifelong learning and innovation by applying modern techniques, critically analyzing information, and contributing to the creation and application of new knowledge in medical laboratory sciences which fulfil the requirements of national and international CBD.

SOL(8). Uphold professional behavior, ensuring the confidentiality of client information, and respecting client privacy throughout all aspects of laboratory work.

SOL(9). Apply managerial skills that align with quality assurance, accreditation, quality improvement, laboratory education, and resource management, showcasing competence in the effective administration of laboratory practices.

Descriptors	ILO/ID	Program SLOs / Course SLOs	SLO (4)	SLO (5)	SLO (6)	SLO (9)
Knowledge	A1	Understanding the principles and methodologies of various laboratory analyses used in disease diagnosis.		X		
	A2	Knowledge of common disorders affecting different body systems and their manifestations.	X			
Skills	B1	Ability to critically analyze laboratory test results for potential discrepancies.		X		
	B2	Effectively communicating with healthcare professionals and colleagues regarding laboratory findings and discrepancies.			X	
Competence	C1	Addressing discrepancies in test results and proposing solutions for quality improvement.		X		
	C2	Working collaboratively with healthcare teams to provide valuable insights into disease management based on laboratory findings.				X

21. Topic Outline and Schedule:

Week	Lecture	Topic	Student Learning Outcome	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchronous / Asynchronous Lecturing	Evaluation Methods	Resources
1	1.1	Digestive system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	1.2	Digestive system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
2	2.1	Digestive system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	2.2	Digestive system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
3	3.1	Endocrine system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	3.2	Endocrine system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
4	4.1	Endocrine system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	4.2	Endocrine system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
5	5.1	Endocrine system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	5.2	Endocrine system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
6	6.1	Cardiovascular system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry

	6.2	Cardiovascular system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	7th edition by Bishop
7	7.1	Urinary system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	7.2	Urinary system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
8	8.1	Urinary system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	8.2	Urinary system	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
9	9.1	Other body systems	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	9.2	Other body systems	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
10	10.1	Other body systems	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
11	11.1	Other body systems	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	11.2	Other body systems	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
12	12.1	Blood disorders	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	12.2	Blood disorders	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
13	13.1	Blood disorders	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	13.2	Blood disorders	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
14	14.1	Blood disorders	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Clinical chemistry 7th edition by Bishop
	14.2	Blood disorders	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	
15	15.1	Discussion of some case studies	A1, A2, B1, B2, C1, C2	Face to Face	Lecture Room	Synchronous	Written Exams	Internet resources

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22 Evaluation Methods:

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

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
Assignments					
Quizzes					
Lab Reports					
First Exam	30	Digestive, endocrine and cardiovascular systems		7	In campus
Second Exam or (Mid Exam)	20	Urinary system		10	In campus
Final Exam	50	All chapters		16	In campus

23 Course Requirements

(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform…etc): Students are directed and encouraged to use all possible resources:

a) use the internet as a learning source.
b) a series of short movies is needed.

24 Course Policies:

A- Attendance policies:

- Attend and participate in all classes: attendance will be taken.

Class time will be used to discuss, elaborate, expand, etc., on the written modules. This may include formal/informal lectures, audio visual presentations, demonstrations, labs, etc.

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

1. A student who has been absent for 15% or more of the total hours of any course, including absences for medical or compassionate reasons, may be required to withdraw from that particular course.
2. Students who miss quizzes or examinations will automatically be assigned a mark of zero unless the respective instructor, or the Program Head, has been notified of the reason for absence *PRIOR* to the commencement of the exam. Acceptable reasons will be evaluated at the time (e.g., illness - medical

certificate may be required, serious illness or death in the family, etc.). Supplemental examinations may be allowed in legitimate cases.

C- Health and safety procedures:

All students need to be immunized against hepatitis B, immunization certificate must be forwarded to the coordinator of the hospital training. Pregnancy affects immunization and it is the responsibility of the student to notify the health person as soon as possible of her pregnancy. If there are fees related to immunization, it is the responsibility of the student.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

E- Grading policy: Depends on the median value

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

25 References:

A- Required book(s), assigned reading and audio-visuals:

Clinical chemistry 7th edition by Bishop

B- Recommended books, materials, and media:

Instructor's powerpoint slides

26 Additional information:

Name of Course Coordinator: **Dr. Abeer Al-Qatati** Signature: *Abeer Al-Qatati* Date:2/2024

Head of Curriculum Committee/Department: **Dr. Suzan Matar** Signature: *Suzan Matar*

Head of Department: **Dr. Ahmed Abu siniyeh** Signature: *Ahmed Abu siniyeh*

Head of Curriculum Committee/Faculty: **Dr. Mu'ayyad Al Hseinat** Signature: *Mu'ayyad Al Hseinat*

Dean: **Prof. Mahmoud Jaghoub** Signature: *Mahmoud Jaghoub*