Syllabus: Anatomy and histology (#1917021251)

First/Second Semester 202./202.

COURSE INFORMATION	
Course Name: Anatomy and histology **Learning method:** face to face **Semester:** First **Department:** Clinical Pharmacy & Pharmacy Practice **Faculty:** Pharmaceutical Sciences	**Course Code:** 1917021251 **Section:** As per semester **Core Curriculum**: 2013 Study Plan **JNQF Level**: 7
Day(s) and Time(s): According to HU courses timetable/semester **Classroom:** As per semester	**Credit Hours:** 2 **Prerequisites**: General Biology 1 (110108105)

COURSE DESCRIPTION

Anatomy and Histology are two essential basic medical courses. Histology is the science that studies normal microscopic structures, ultra-structures and their related function; whereas, Anatomy studies the gross appearance of the various organs that make up the systems of the human body. Through class lecture, the students will be made to master the basic knowledge of the morphology and relations of the anatomical structures that are present in humans and the histological tissues that form these structures. The relation between the type of tissue present in an organ and the shape and functions of that organ is stressed.

DELIVERY METHODS

The course will be delivered using active learning strategy, and students will be encouraged to participate actively in the learning process.

- PowerPoint lectures and active classroom based discussion
- Students are encouraged to participate actively in the learning process. Lectures start with questions about the student's prior knowledge of the topic and/or the previous lecture. Other questions are asked at the end of the lecture to gain insight into the students' competencies (to verify whether students have completely understood the topic).
- Video lectures
- E-learning resources: e-reading assignments, practice quizzes, and interactive web activities.

FACULTY INFORMATION

Names	**Dr.Khaled jamal Alrosan**
Academic Title:	**Assistant Professors**
Office Location:	**Third Floor**
Telephone Number:	**Extensions:3418**
Email Address:	**kalrosan@hu.edu.jo**
Office Hours:	**As announced per semester** ***Please send an e-mail (as mentioned above)***

REFERENCES AND LEARNING RESOURCES

``Required Textbook:

- Gerard J. Tortora and Bryan H. Derrickson. ***Principles of Anatomy and Physiology*** (Wiley, 15th edition: 2017). ISBN: 978-1-119-40006-6

Suggested Additional Resources:

- Richard Drake, A. Wayne Vogl, Adam Mitchell, Richard Tibbitts, and Paul Richardson. ***Gray's Atlas of Anatomy***. (Churchill Livingstone, 3rd edition: 2020). ISBN: 9780323636391
- Anthony L. Mescher. ***Junqueira's Basic Histology: Text and Atlas***. (McGraw-Hill Education. 15th edition: 2018). ISBN: 978-1260026177

Course objectives

After course completion, students will be able to:

1. To acquire an appropriate background knowledge about the normal structure and function of the body and of each its major systems.
2. To acquire an appropriate background about and understanding different types of tissues of each body system.
3. To identify and examine the normal anatomy of the body and of each its major organ systems grossly.
4. To correlate anatomical facts with their clinical applications

COURSE INTENDED LEARNING OUTCOMES (CILOs)

A. Foundational Knowledge

A1. Describe the major anatomical structures and systems of the human body.

A2. Recognize the functional relevance of anatomical structures and their relationships.

A3. Recognize the developmental processes and stages of human anatomy.

A4. Describe the microscopic structure of tissues and organs.

A5. Recognize the functional significance of various cell types and tissue structures.

A6. Match the knowledge of gross anatomy with histological features to understand the structure-function relationship in the human body.

B. Essentials for Practice and Care

B1. Apply anatomical models and imaging technologies to enhance understanding of human anatomy.

B2. Interpret histological findings accurately.

B3. Analyze the interrelationships between anatomical structures and their physiological functions.

C. Approach to Practice and Care

C1. Demonstrate students in enduring ways (i.e., medical databases) about imparting the most accurate information.

C2. Work collaboratively in in interdisciplinary teams to enhance understanding and application of anatomical and histological concepts.

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section:

Tel: **00962-5-3903333** **Extension:** **4209**

Location: **Students Affairs Deanship/ Department of Student Welfare Services** **Email**: **amalomoush@hu.edu.jo**

amalomoush@staff.hu.edu.jo

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance*. It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

Sharing of course materials is forbidden. No course material including, but not limited to, course outline, lecture hand-outs, videos, exams, and assignments may be shared online or with anyone outside the class. Any suspected unauthorized sharing of materials will be reported to the university's Legal Affairs Office. If a student violates this restriction, it could lead to student misconduct procedures.

Plagiarism

Plagiarism is considered a serious academic offense and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples, and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected

Student Complaints Policy

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

Others

- At the beginning of the lectures, be on time and don't leave before the end of the lecture without an acceptable excuse.
- If you missed a class, it is your responsibility to find out about any announcements or assignments you have missed.
- For any clarification, please communicate with your instructor at his posted office hours or by appointment.
- Switch off your mobile or keep it silent throughout the lecture.
- Listen well to the lecture and avoid side discussions, if you have a question, ask your instructor and not your colleague.
- Exams are scheduled to be given three times throughout the semester; you are expected to attend all. If not, make-up exams will be offered for valid reasons. It may be different from regular exams in content and format.
- Cheating, academic misconduct, fabrication, and plagiarism will not be tolerated, and the university policy will be applied.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment:

Assessment	Grade Weighting	Deadline Assessment
First Exam	30%	~ 6th week
Second Exam	30%	~ 10th week
Final Exam	40%	~ 15th /16th week

Description of Exams

Test questions will predominately come from the material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. The exam will consist of a combination of multiple-choice, true and false, and/or short answers.

No make-up exams will be given. Only documented absences will be considered as per HU guidelines. Make-up exams may be different from regular exams in content and format.

Grades are not negotiable and are awarded according to the following criteria*

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

"Lecture hours and weeks are approximate and may change as needed"

Note: For the 2 lecture periods per week (S/T, M/W), one lecture period covers 2 hours (120 minutes). The course content specifies chapters of the textbook that will be included in exams.

70-80% of the lectures are delivered by face-to-face learning.

Assessment method	Delivery method	Subject	CILOs	No. of hours	Week
-Exams -Oral questions by choosing students to answer randomly (with no mark).	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Introduction to anatomy**	A C	1	1
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active 2Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Tissues**	A C	2	2
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Nervous system**	A B	4	3,4
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Skin**	A B	1	5
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Skeleton system**	A B	4	5,6,7

-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Muscular system**	A B	3	7, 8
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Cardiovascular system**	A B	4	9, 10
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Lymphatic system**	A B	1	11
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Renal system**	A B	1	11
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Respiratory system**	A B	1	12
-Exams -Oral questions by choosing students to answer randomly (with no mark)	-Active Classroom-Based Discussions -PowerPoint Lectures -Relevant Videos	**Digestive system**	A B	2	12, 13
-Exams -Oral questions by choosing students to	-Active Classroom-Based Discussions	**Endocrine system**	A B	1	13

answer randomly (with no mark)	-PowerPoint Lectures -Relevant Videos				