

ref# FR/P1/P1/1/v1

COURSE DESCRIPTIONS

Faculty	Pharmacy					
Department	Pharmacy	NQF level	5			
Course Title	physiology	Code	901358 Prerequisite		902123	
Credit Hours	3	Theory	3 Practical			
Course Leader	Dr ali alsarhan	email	sarhan@jadara.edu.jo			
Lecturers	Dr ali alsarhan	emails	sarhan@jadara.edu.jo			
Lecture time	[11:30_13:00] Tuesday, Thursday	Classroom	D306			
Semester	Second semester	Production	2021 Updated 202		2021	
Awards			Attendance Fulltime			

Short Description

The student studies and analyzes how complex body works composed of human body structures. Throughout this course we will highlight the communication mechanisms between body systems and the importance of these mechanisms throughout maintaining homeostasis and the proper functioning of other body systems. In addition, this course explores, describes and explains the prevalent concepts of body function as a mandatory to understand pharmacology and pathology taught in later years

Course Objectives

Human physiology aims to introduce the students to the Physiological concepts of homeostasis and control mechanisms and to study the functions of body systems- with emphasis on clinical relevance. The body systems dealt with in the autonomic nervous system, excitable tissues, the cardiovascular system, respiration, the gastrointestinal tract, renal physiology, and an introduction to metabolism and body temperature regulation, the endocrine and the nervous system.

Learning Outcomes

A. Knowledge - Theoretical Understanding

a1. explain the body's fundamental physiological processes for maintaining homeostasis

a2. explain the interaction between different organ systems and how organs and cells interact to maintain biological equilibria in the face of a variable and changing environment.

B. Knowledge - Practical Application

B. Skills

b1. illustrate the mechanism of performing the functions of the several body systems and how it is controlled.

C. Competence: Autonomy, Responsibility, and Context

c1. decide the significance of information taken in physiology for subsequent pharmaceutical and biomedical courses.

Teaching and Learning Methods

- Advanced Lecture (Presentations)
- Discussion
- Brainstorming

Using instructional technologies (video tutorial)

Assessment Methods

quizzes - midterm and final exam

	Course Contents					
Week	Hours	CLOs	Topics	Teaching & Learning Methods	Assessment Methods	
1.	3	a1, a2	Introduction to Physiology	Advanced Lecture (Presentations)	quizzes - midterm and final exam	
2.	3	a1, a2	Interactions Between Cells and the Extracellular Environment	Advanced Lecture (Presentations) Discussion Brainstorming	quizzes - midterm and final exam	
3.	3	a1, a2,b1, c1	The Nervous System (Neurons & Synapses)	Advanced Lecture (Presentations)	quizzes - midterm and final exam	
4.	3	a1, a2,b1, c1	The Autonomic Nervous System.	Advanced Lecture (Presentations) Discussion Brainstorming	quizzes - midterm and final exam	
5.	3	a1, a2,b1, c1	SENSORY PHYSIOLOGY	Advanced Lecture (Presentations)	quizzes - midterm and final exam	
6.	3	a1, a2,b1, c1	Mechanisms of Contraction and Neural Control	Advanced Lecture (Presentations) Discussion Brainstorming	quizzes - midterm and final exam	
7.	3	a1, a2,b1,	Midterm exam and discussion			

		c1			
8.	3	a1, a2,b1, c1	Cardiac Physiology	Advanced Lecture (Presentations)	quizzes - midterm and final exam
9.	3	a1, a2,b1, c1	Cardiac Physiology Cardiac Output, Blood flow, & Blood Pressure:	Advanced Lecture (Presentations) Discussion Brainstorming	quizzes - midterm and final exam
10.	3	a1, a2,b1, c1	Respiratory System	Advanced Lecture (Presentations)	quizzes - midterm and final exam
11.	3	a1, a2,b1, c1	Respiratory System	Advanced Lecture (Presentations) Discussion Brainstorming	quizzes - midterm and final exam
12.	3	a1, a2,b1, c1	DIGESTIVE SYSTEM	Advanced Lecture (Presentations)	quizzes - midterm and final exam
13.	3	a1, a2,b1, c1	PHYSIOLOGY OF THE KIDNEYS	Advanced Lecture (Presentations) Discussion Brainstorming	quizzes - midterm and final exam
14.	3	a1, a2,b1, c1	ENDOCRINE SYSTEM	Advanced Lecture (Presentations) Discussion Brainstorming	quizzes - midterm and final exam
15. 16.		-		Final exam Final exam	

Infrastructure				
Textbook	Human Physiology, 15th Edition, Stuart Ira Fox, McGraw Hill, 2019.			
References	Essentials of Human Anatomy and Physiology, 14th edition, Marieb E.N. (2019) Pearson Education, Inc. Principles of Anatomy			
Required reading				

Electronic materials	http://highered.mheducation.com/sites/0073403628/information_center_view0/index.html
Other	Presentations

Course Assessment Plan							
Assessment Method		Grade	CLOs				
			a1	a2	b1	c1	
First (Midterm)		30	4	6	10	10	
Second (if applicable)		-	-	-	-		
Final Exam		50	8	12	15	15	
Coursework							
nt	Assignments						
sme	Case study						
sses ds	Discussion and interaction						
vork asse methods	Group work activities						
Coursework assessment methods	Lab tests and assignments						
	Presentations						
	Quizzes	20	5	5	5	5	
Total		100	17	23	30	30	

Plagiarism

Plagiarism is claiming that someone else's work is your own. The department has a strict policy regarding plagiarism and, if plagiarism is indeed discovered, this policy will be applied. Note that punishments apply also to anyone assisting another to commit plagiarism (for example by knowingly allowing someone to copy your code). Plagiarism is different from group work in which a number of individuals share ideas on how to carry out the coursework. You are strongly encouraged to work in small groups, and you will certainly not be penalized for doing so. This means that you may work together on the program. What is important is that you have a full understanding of all aspects of the completed program. In order to allow proper assessment that this is indeed the case, you must adhere strictly to the course work requirements as outlined above and detailed in the coursework problem description. These requirements are in place to encourage individual understanding, facilitate individual assessment, and deter plagiarism.