The University of Jordan

الجامعة الاردنية

Form: Course Syllabus		
	Form Number	EXC-01-02-02A
	Issue Number and Date	2/3/24/2022/2963
	Number and Date of Revision or Modification	05/12/2022
	Deans Council Approval Decision Number	
	The Date of the Deans Council Approval Decision	2/3/24/2023
	Number of Pages	23/01/2023

1	**Course title**	Human Physiology
2	**Course number**	5701103
3	**Credit hours**	3
	Contact hours (theory, practical)	(3,0)
4	**Prerequisites/co-requisites**	5701104
5	**Program title**	BSc. In Nursing
6	**Program code**	57
7	**Awarding institution**	The University of Jordan/Aqaba branch
8	**School**	Nursing
9	**Department**	Nursing 01
10	**Level of course**	1
11	**Year of study and semester (s)**	2023/2024 First semester
12	**Final Qualification**	B.Sc. in Nursing
13	**Other department (s) involved in teaching the course**	None
14	**Main Teaching Language**	English
15	**Delivery method**	☒Face to face learning ☐Blended ☐Fully online
16	**Online platforms(s)**	☒Moodle ☒Microsoft Teams ☐Skype ☐Zoom ☐Others……
17	**Issuing/Revision Date**	22nd SEP 2020/10 OCT 2021

18. Course Coordinator:

Name: Dr. Mahmoud Al-Kalaldeh
Office number:
Phone number: 36075
Email: m.kalaldeh@ju.edu.jo

19 Other instructors:

The University of Jordan **الجامعة الاردنية**

Name: Office number: Phone number: Email:

20 Course Description:

This course is designed to provide students with an understanding of the function & regulation of the human body and physiological integration of the organ systems to maintain homeostasis. Course content will include neural & hormonal homeostatic control mechanisms, as well as study of the blood and body fluid, musculoskeletal, cardiovascular, respiratory, digestive, urinary, autonomic nervous system, central nervous system, special senses, reproductive, and endocrine organ systems.

21. Program Intended Learning Outcomes:

PLO's	***National Qualifications Framework Descriptors***		
	Competency (C)	**Skills (B)**	**Knowledge (A)**
1.	☒	☐	☐
2.	☐	☒	☐
3.	☐	☒	☐
4.	☒	☐	☐
5.	☐	☒	☐
6.	☐	☐	☐
7.	☒	☐	☐

* Choose only one descriptor for each learning outcome of the program, whether knowledge, skill, or competency.

22. Course Intended Learning Outcomes: (Upon completion of the course, the student will be able to achieve the following intended learning outcomes)

Course ILOs
1. Describe the function of cell membrane and proteins of plasma membranes and modalities of transport.
2. Describe the role of plasma membrane in excitable tissues and changes in ion currents according to membrane potentials
3. Classify the functional organization of the Autonomic nervous system and its general effects on body systems, besides studying the neurotransmitters and functional receptors of the ANS and its relation with suprarenal glands.
4. Describe the basic interactions that occur between several endocrine and neuroendocrine systems. Feedback control of endocrine secretions, hormone metabolism, and metabolic and physiologic responses to various hormones.
5. Explain the mechanisms of heart functions including heart muscle and conductive tissue and vessels and their hemodynamics.

6. Analyzing possible alterations in the functional structures of the skeletal muscle and impact on skeletal muscle function.
7. Evaluate the normal functions of different components of the central nervous system and the effect of their disturbances
8. Analyzing functional changes in respiratory system and impacts on homeostasis of O2, pH and CO2 in blood**.**
9. Evaluate the significance of information taken in Physiology for subsequent Biomedical courses
10. Use of different resources to understand physiological process in human body.

23. The matrix links the intended learning outcomes of the course -CLO's with the intended learning outcomes of the program -PLOs:

PLO's * / CLO's	1	2	3	4	5	6	7	Descriptors**		
								K	S	C
1.			X					X		
2.							X	X		
3.			X					X		
4.		X						X		
5.				X				X		
6.					X				X	
7.						X			X	
8.							X		X	
9.	X									X
10.		X								X

***Linking each course learning outcome (CLO) to only one program outcome (PLO) as specified in the course matrix.**

****Descriptors are determined according to the program learning outcome (PLO) that was chosen and according to what was specified in the program learning outcomes matrix in clause (21).**

24. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction and Transport Membranes of Excitable tissues, Action	1	Physiology section	A1 A2, B1, C1	MCQ exams	Principles of anatomy and physiology by: Derickson and Tortora 14th

potential, Graded Potential					edition
NM junction, Skeletal Muscle contraction & relaxation,	1-2	Physiology section	A3, B2, C2	MCQ exams	As above
muscle Metabolism, fatigue and tone. Smooth muscle Cells					
Body fluids and Blood. Blood functions & properties, RBC, WBC & platelets Hemostasis, blood grouping and types	3-4	Physiology section	A5, B4, C3	MCQ exams	As above
Cardiovascular system Autonomic Nervous system	4-6	Physiology section	A6, B5, C4 A4, B3	MCQ exams	As above
Respiratory system	7	Physiology section	A7, B6, C5	MCQ exams	As above
Endocrine & Reproduction	8-10	Physiology section	A8, B8, C6	MCQ exams	As above
Renal system	11	Physiology section	A9, B9, C7	MCQ exams	As above
Gastrointestinal system	12	Physiology section	A10, B10, C8	MCQ exams	As above
Neurophysiology & special senses	12-15	Physiology section	A11,B11, C9	MCQ exams	As above

25 Evaluation Methods:

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

Evaluation Activity	Mark	Topic(s)	SLOs	Period (Week)	Platform
MID exam	30%	All contents until the respiratory system	1, 2, 3,4	Week 6	Face to face
Participation/home work/Activities	10%		1,2,3,4,5,6	Week 14	Face to face

Quizzes	10%	All	1,2,3,4,5	Ongoing	Face to face
Final written exam	50%	All the topics	1,2,3,4,5,6	According to university	Face to face

26: Course Requirements (e.g: students should have a computer, internet connection, webcam, and account on a specific software/platform…etc):

- E-Learning Website
- Library Resources Textbook, CDs, Journals.
- Audiovisual Materials.
- Handouts
- Overhead projector

27: Course Policies:

A- Attendance policies:

- Students must attend all classes of this course.
- Any student with absence of 15% of the classes of any course, will not be allowed to sit for the final exam and will be given the university zero (F grade) in this course.
- In the case (b) above, if a student submits an official sick report authenticated by university clinic or an accepted excuse by the Dean of his/her faculty, the student will be considered as withdrawn from the course, and a "W" will be shown in the transcript for this course.
- Students are not allowed to come late to classes. Any student coming late will not be allowed to attend the class and he/she will be marked absent.

B- Absences from exams and submitting assignments on time:

- Failure in attending a course exam other than the final exam will result in zero mark unless the student provides an official acceptable excuse to the instructor who approves a make-up exam.
- Failure in attending the final exam will result in zero mark unless the student presents an official acceptable excuse to the Dean of his/her faculty who approves an incomplete exam, normally scheduled to be conducted during the first two weeks of the successive semester.
- Failure in attending the final clinical exam will result in zero mark and the student will not be allowed to set for the final theory exam, unless the student presents an official acceptable

excuse to the Dean of his/her faculty (before the final theory exam) who approves an incomplete exam, normally scheduled to be conducted during the first two weeks of the successive semester

- Assignments and projects should be submitted to the instructor on the due date and will not be accepted after the due date.

C- Health and safety procedures:

- Comply with all regulations and standards of regulatory authorities representing occupational health and safety.
- Staff should ensure that students in their areas of assignment, have been given adequate direction, training and instruction in the safe performance of their work and that it is performed without unnecessary risk;
- Immediately reporting to a supervisor all work related incidents and obtaining medical treatment without delay.
- Ensure compliance with occupational health and safety standards in conformity with both university policies
- Promote frequent and thorough hand washing using soap and running water, or for immediate action, use alcohol-based hand rubs containing at least 60% alcohol.
- Students should stay home if you are sick.
- Encourage respiratory etiquette, including covering coughs and sneezes
- Students should not use other students' phones, desks, pens, lab coat, stethoscope, , or other work tools and equipment, when possible.

D- Honesty policy regarding cheating, plagiarism, and misbehavior:

Cheating, plagiarism, misbehavior are attempts to gain marks dishonestly and includes; but not limited to:

- Copying from another student's work.
- Using materials not authorized by the institute.
- Collaborating with another student during a test, without permission.
- Knowingly using, buying, selling, or stealing the contents of a test.

- Plagiarism which means presenting another person's work or ideas as one's own, without attribution.

  Using any media (including mobiles) during the exam

- **The participation or the commitment of cheating will lead to applying penalties according to the University of Jordan Students' discipline rules and regulations No. (94, 49, 47,27, 29): http://units.ju.edu.jo/ar/LegalAffairs/Regulations.aspx**

E- Grading policy:

A grade of (D) is the minimum passing grade for the course.

Mark Range	Grade
0-39	F
40-49	D-
50-55	D
56-59	D+
60-63	C-
64-67	C
68-70	C+
71-74	B-
75-77	B
78-80	B+
81-83	A-
84-100	A

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

28. References:

A. Principles of Anatomy and Physiology, 13th Edition Gerard J. Tortora, Bryan H. Derrickson By

John Wiley & Sons, Inc.

B. Recommended books, materials, and media:

C. Human physiology, by: Lauralee Sherwood, last edition.

D. Textbook of medical physiology by: Guyton and Hall last edition

E. Electronic resources

Relevant Website and Journals

- Database
- Website

29: Additional information:

The University of Jordan

الجامعة الاردنية

Course E-Syllabus

Name of Course Coordinator: ----------Signature: ---------- Date: ----------

Head of Curriculum Committee/Department: ---------- Signature: ----------

Head of Department: ---------- Signature: ----------

Head of Curriculum Committee/Faculty: ---------- Signature: ----------

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