

Philadelphia University	 PHILADELPHIA UNIVERSITY THE WAY TO THE FUTURE	Approval date:
Faculty: Allied and Medical Sciences		Issue:
Department of Clinical Nutrition and Dietetics		Credit hours: 3
Academic year 2025/2026		Bachelor

Course information

Course#	Course title	Co /Pre-requisite	
0910260	Pathophysiology		
Course type		Class time	Room #
☐ University Requirement ☒ Faculty Requirement ☐ Major Requirement ☐ Elective ☐ Compulsory		Saturday, Monday 11:15-14:05 Monday 22:10-23:00	Blended

Instructor Information

Name	Office No.	Phone No.	Office Hours	E-mail
Dr. Bayan AL-Tarifi	161212	2434	Sat (12:15-14:05) Sun (11:15-12:05) Mon (9:45- 10:35) (13:15-14:05) Tue (13:15-15:05)	baltarifi@philadelphia.edu.jo

Course Delivery Method

Course Delivery Method			
☐ Physical		☐ Online	☒ Blended
Learning Model			
Percentage	Synchronous	Asynchronous	Physical
		50%	50%

Course Description

This course is designed to teach students about disease and dysfunction, cell injury including causes, mechanisms, morphologic changes and alterations, cellular death, adaptations of cellular growth and differentiation, inflammation including its types, and hemodynamics disorder including edema. Diseases and dysfunction of various body systems with special emphasis on the musculoskeletal, nervous (peripheral and central), and cardiovascular systems will be covered.

Course Learning Outcomes

Number	Outcomes	Corresponding Program outcomes	Corresponding Competences
Knowledge			
K1	Integrate knowledge of abnormal organ disorders with previously acquired concepts of pathology and disease.	KP1	
K2	Explain the basic mechanism of organs disorders and the mechanisms of disease in relation to different organs.	KP 1&2	
K3	Demonstrate understanding of commonly used medical terms describing disease, including signs, symptoms, etiology, pathogenesis, manifestations, sequelae, and prognosis.	KP3	
Skills			
S1	Analyze the pathological mechanisms underlying major disease processes such as cell injury, inflammation, vascular disorders, immunity, and neoplasia.	SP1	
S2	Interpret the pathophysiology of diseases affecting major organ systems (renal, cardiovascular, respiratory, gastrointestinal, endocrine, nervous, and musculoskeletal systems).	SP2	
Competencies			
C1	Apply critical thinking to correlate pathological changes with their clinical consequences.	CP1	CP1
C2	Develop vocabulary of appropriate terminology to effectively communicate information related to pathology	CP2	CP2

Learning Resources

Course textbook	1. Robbins & Cotran. Pathologic basis of disease 10th edition (2020) 2. Norries, Tommie. Porth's Pathophysiology: Concepts of altered Health States, 10th edition (2023)
Supporting References	Marianne & Ruth. Human Disease 6th edition (2022) Handouts prepared by the lecture
Supporting websites	http://evolve.elsevier.com/Goodman
Teaching Environment	☒ Classroom ☐ laboratory ☒ Learning platform ☐ Other

Meetings and subjects timetable

Week	Topic	Learning Methods	Learning Material
1	Vision, mission and values of faculty Introduction to the course syllabus	Lecture Discussion	
2	Introduction to pathology Cellular response to stress 1	Asynchronous text Video and discussion	Chapter 1 Ref 1
3	Cellular response to stress 2	Lecture video discussion	Chapter 2 Ref 1
4	Cellular response to stress 3	Asynchronous text book reading Case study	Chapter 2 Ref 1
5	Inflammation 1	lecture	Chapter 3 Ref 1
6	Inflammation 2	Asynchronous text Video Case study discussion	Chapter 3 Ref 1
7	Musculoskeletal system 1	Lecture Group Discussion problem solving	Chapter 12 Ref 2
8	Musculoskeletal system 2	Asynchronous text Lecture Discussion	Chapter 12 Ref 2
9	Musculoskeletal system 3	Lecture Group discussion Problem solving based learning	Chapter 12 Ref 2
10	Neurologic system 1	Asynchronous text book reading Case study	Chapter 11 Ref 2
11	Neurologic system 2	Lecture Case study Group discussion	Chapter 11 Ref 2
	Review and question		
	Midterm exam		
12	Neurologic system 3	Lecture	Chapter 11 Ref 2
13	Cardiovascular system 1	Lecture	Chapter 11 Ref 1
14	Cardiovascular system 2	Asynchronous text Problem solving based learning	Chapter 11 Ref 1
15	Cardiovascular system 3	Group discussion	Chapter 11

		Lecture Quiz	Ref 1
16	Immune system 1	Asynchronous text Lecture Group discussion	Chapter 7 Ref 1
17	Immune system 2	Asynchronous text Case study	Chapter 7 Ref 1
18	Gastrointestinal system 1	Lecture, video discussion	Chapter 9 Ref 2
19	Gastrointestinal system 2	Asynchronous text Lecture Case study	Chapter 9 Ref 2
20	Endocrine system 1	Collaborative learning Lecture	Chapter 10 Ref 2
21	Endocrine system 2	Asynchronous text Lecture	Chapter 10 Ref 2
22	Renal system 1	Lecture, Discussion	Chapter 14 Ref 1
23	Renal system 2	Asynchronous Text Lecture	Chapter 14 Ref 1
25	Respiratory system1	Lecture and problem based learning	Chapter 13 Ref 1
26	Respiratory system2	Asynchronous text Lecture	Chapter 13 Ref 1
27	Revision	Flipped learning	Selected websites

* includes: Lecture, flipped Class, project- based learning, problem solving based learning, collaborative learning

☐ Online session

Course Contributing to Learner Skill Development

Using Technology
Use data from different resources mainly textbook and scientific websites in different assigned activities Example: problem solving, collaborative learning, group discussion
Communication skills
confidence, respect, responsiveness, teamwork, competence
Application of concepts learnt
Apply understanding and description of anatomical organization of human system

Assessment Methods and Grade Distribution

Assessment Methods	Grade Weight	Assessment Time (Week No.)	Link to Course Outcomes
Mid Term Exam	30%	7 th week	K1, K2, K3
Various Assessments *	30%	Overall course duration	S1,S2,C1,C2
Final Exam	% 40	16 th week	K1,K2,S2,C1
Total	%100		

* includes quizzes, in-online and out-of-class assignments, presentations, reports, videotaped assignments, and group or individual projects.

Alignment of Course Outcomes with Learning and Assessment Methods Course Policies

Policy	Policy Requirements
Passing Grade	The minimum passing grade for the course is (50%) and the minimum final mark recorded on transcript is (35%).
Missing Exams	- Missing an exam without a valid excuse will result in a zero grade to be assigned to the exam or assessment. - A Student who misses an exam or scheduled assessment, for a legitimate reason, must submit an official written excuse within a week from the exam or assessment due date. - A student who has an excuse for missing a final exam should submit the excuse to the dean within three days of the missed exam date.
Attendance	The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lectures days (Sun,Tus) and seven lectures (S,T,R). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory excuse accepted by the dean of the faculty, s/he will be prohibited from taking the final exam and the grade in that course is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college, then withdrawal grade will be recorded.
Academic Honesty	Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as: cheating, plagiarism (academic theft), collusion, and violating intellectual property rights.

Program Learning Outcomes to be assessed in this Course

Number	Learning Outcome	Course Title	Assessment Method	Target Performance level
KP1	students able The program will graduate recognize the role of physiotherapy in the context of the health needs of the community and national priorities in the health sector	Pathology for physiotherapy	Short exams	75% of students get 60% of the exam results
KP2	The program will graduate students able to acquire knowledge in basic medical sciences, various medical conditions and surgical treatments, and determine their impact on the individual and society.	Pathology for physiotherapy	Short exams	75% of students get 60% of the exam results

Assessment Rubric

	4 pts	3 pts	2 pts	1 pt
Completion How much of the work was completed?	The entire assignment was completed	3/4 of the assignment was completed	At least 1/2 of the assignment was completed.	Less than 1/2 of the assignment was completed.
Accuracy How correct was the work?	The entire assignment (or almost all) of the assignment was done correctly.	3/4 of the assignment was done correctly.	At least 1/2 of the assignment was done correctly.	Less than 1/2 of the assignment was done correctly.
Scientific reasoning Did the student apply pathophysiological concepts logically?	Excellent clinical reasoning; mechanisms clearly linked to signs/symptoms and organ dysfunction	Good reasoning with minor gaps; links generally clear.	Limited reasoning; connections are weak or partially incorrect.	Little to no reasoning; mechanisms missing or incorrect
Legibility/ Neatness Is the work readable and well organized?	Very neat. Writing illustrates a lot of thought and preparation.	Mostly neat and legible Writing illustrates some thought and preparation.	Slightly legible. Writing illustrates little thought or preparation.	Not legible Hard to read. Ideas expressed are difficult to understand.
Directions Did you follow directions? Was the assignment completed showing all work?	The assignment was done showing lots of work neatly and easily followed.	The assignment was done showing most of the work.	The assignment was done showing some work	The assignment was answers only.
Effort The student worked at what level of their ability?	Outstanding work, the student should be proud of their effort!	Good effort was made and the student met my expectations.	Some effort was made, The student just did enough work.	Minimal effort was given. The student should try harder.
Time Management Was the assignment turned in on time?	The assignment was turned in on time.	The assignment was turned in one day late.	The assignment was turned in two days late.	The assignment was turned in more than two days late.
Total: 20				