

Philadelphia University	 PHILADELPHIA UNIVERSITY <small>THE WAY TO THE FUTURE</small>	Approval date:19/10/2021
Faculty: Allied Medical Sciences		
Department: Physical Therapy		Credit hours: 3
Academic year 2022/2023	Course Syllabus	Bachelor

Course information

Course#	Course title	Co requisite
0910260	Pathophysiology for Allied Medical Sciences	Anatomy and Histology
Course type		Class time
<input type="checkbox"/> University Requirement <input checked="" type="checkbox"/> Faculty Requirement <input checked="" type="checkbox"/> Major Requirement <input type="checkbox"/> Elective <input type="checkbox"/> Compulsory		Sun-Tue 11.15- 12.45
		Room #
		Hall 422

Instructor Information

Name	Office No.	Phone No.	Office Hours	E-mail
<i>Dr. Mohammad Shomali</i>	Third Floor		10:00-11:00 Sunday/Tuesday/	

Course Delivery Method

Course Delivery Method			
<input checked="" type="checkbox"/> Physical	<input type="checkbox"/> Online	<input type="checkbox"/> Blended	
Learning Model			
Precentage	Synchronous	Asynchronous	Physical
			%100

Course Description

This course is designed to provide the students with knowledge about disease & dysfunction cell injury including its causes, mechanisms, morphologic alterations and cellular death, adaptations of cellular growth and differentiation, Inflammation including its types, causes, morphologic features and mechanisms, tissue renewal, regeneration, and repair, hemodynamic disorders including edema, hyperemia, congestion, thrombosis, embolism infarction and shock, neoplasia including nomenclature and characteristics of benign and malignant neoplasms. The course also provides knowledge about diseases and dysfunctions of many systems, such as the musculoskeletal, neurologic, cardiovascular, renal, respiratory and hematologic, endocrine and gastrointestinal system.

Course Learning Outcomes

	Number	Outcomes	Corresponding Program outcomes
Knowledge			
1	K1	Build Knowledge on the abnormal organic KP1 disorders to previous obtained knowledge of Define pathology and disease	KP1
2	K2	Describe the basic mechanism of organs disorders and the mechanisms of disease in relation to different organs.	KP 1&2
3	K3	Understand and be able to define commonly used terms and vocabulary used to describe various aspects of disease (e.g. signs, symptoms, etiology, pathogenesis, manifestations, sequelae, prognosis.	KP1
Skills			
4	S1	Describe pathological mechanisms underlying particular disease processes affecting particular organ systems/tissues (cell injury, inflammation, immunity, neoplasia, vascular disturbances (congestion, hyperemia, edema, thrombosis, ischemia, shock and hemorrhage).	
5	S2	Discuss the diseases affecting particular organ systems/tissues e.g. hematopoietic and lymphoid, kidney and urinary tract, endocrine system, male and female genital tracts, lungs, breasts, gastrointestinal tract, hepatobiliary system, cardiovascular system, central nervous system and musculoskeletal system.	SP2
6	S3	Illustrate and identify the different parts of the body using different resources from video and quiz cards	SP1
Competencies			
7	C1	Apply critical thinking of integrating pathology clinical consequence of different diseases.	CP3,
8	C2	Develop vocabulary of appropriate terminology to effectively communicate information related to pathology	CP1

Learning Resources

Course textbook	Pathophysiology, Wolters Kluwer, 4 th edition Kumar, Cotran and Robbins basic pathology 10 th edition <i>Pathology: Implications for the Physical Therapist, edition 5</i>
Supporting References	Handouts prepared by the lecture
Supporting websites	http://evolve.elsevier.com/Goodman
Teaching Environment	<input checked="" type="checkbox"/> Classroom <input type="checkbox"/> laboratory <input checked="" type="checkbox"/> Learning platform <input type="checkbox"/> Other

Meetings and subjects timetable

Week	Topic	Learning Methods	Learning Material
1 23/10/2022	Vision, mission and values of faculty Introduction to the course syllabus	Lecture Discussion	
25/10/2022	Introduction to pathology Cellular response to stress I	Asynchronous textbook reading Video and discussion	Text book Prepared slides
2 30/10/2022	Cellular response to stress II	Lecture video discussion	Text book Prepared slides
3 01/11/2022	Inflammation I	Asynchronous text book reading Case study	Text book Prepared slides
06/11/2022	Inflammation II	Video discussion, lecture	Text book
4 08/11/2022	Musculoskeletal system I	Asynchronous text book reading Video Case study discussion	Text book prepared slides
13/11/2022	Musculoskeletal system II	Lecture Group Discussion	Text book prepared slides

		problem solving based learning	Selected websites
5 15/11/2022	Musculoskeletal system III	Asynchronous text book reading Discussion	Text book Selected website
20/11/2022	Neurologic system II	Lecture Group discussion Problem solving based learning	Text book prepared slides
6 22/11/2022	Neurologic system II	Asynchronous text book reading Case study	Text book Prepared slides
27/11/2022	Neurologic system 3	Lecture Case study Group discussion	Text book Prepared slides
7 29/11/2022	Cardiovascular system I	Asynchronous text book reading Problem solving based learning	Text book Prepared slides
04/12/2022	Midterm exam	Group discussion Lecture Case study	Text book Prepared slides
8 06/12/2022	Cardiovascular system II	Asynchronous text book reading Lecture Students	Text book Prepared slides
11/12/2022	Cardiovascular system III	Asynchronous text book reading Case study	Text book Prepared slides
9 13/12/2022	Respiratory system I	Lecture, discussion	Text book Prepared slides
18/12/2022	Respiratory system II	Asynchronous text book reading Case study	Text book Prepared slides
10 20/12/2022	Respiratory system III	Collaborative learning Lecture	Text book Prepared slides
25/12/2022	Immune system I	Asynchronous text book reading	Text book Prepared slides
11 27/12/2022	Immune system II		Text book

			Prepared slides
03/01/2023	Gastrointestinal system I	Asynchronous text book reading	Text book Prepared slides
12 08/01/2023	Gastrointestinal system II	Lecture and problem based learning	Text book Prepared slides
10/01/2023	Endocrine system I	Asynchronous text book reading	Text book Selected teaching material
13 15/10/2023	Endocrine system II	lecture	Text book Selected teaching material
17/01/2023	Renal system I	lecture	Text book
14 22/01/2023	Renal system II	Lecture	Selected websites Text book
24/01/2023	Hematologic system	Presentation	All previous topics
15 29/01/2023	Cancer	Presentation	Selected websites Text book
31/01/2023	Cancer	Presentation	Selected websites Text book
16 05/02/2023	Revision		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,S3,C1
Total	%100		

* includes: quiz, in class and out of class assignment, presentations, reports, videotaped assignment, 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	<ul style="list-style-type: none"> • 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	The program will graduate students able 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	95% 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	95% of students get 60% of the exam results