

Course Outline: “4107- Pathophysiology”

1. General information

FACULTY/SCHOOL	School of Physical Education, Sport Science & Dietetics		
DEPARTMENT	Department of Nutrition and Dietetics		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	4107	SEMESTER	4 th
COURSE TITLE	Pathophysiology		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
Theory		3	5
COURSE TYPE	Background knowledge Scientific Expertise		
PREREQUISITE COURSES	No		
LANGUAGE OF INSTRUCTION	GREEK		
LANGUAGE OF EXAMINATION/ASSESSMENT	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES		
COURSE WEBSITE (URL)	https://eclass.uth.gr/courses/DND_U_239/		

2. LEARNING OUTCOMES

Learning Outcomes
<p>Pathophysiology is an important course for understanding the clinical presentation of various diseases. Knowledge of the underlying mechanisms of diseases and their clinical manifestations contributes to the optimal treatment of the patients. The main goal of the course is for the student to understand the dysfunction of various systems of the human body and how does this leads to the appearance of symptoms and clinical signs of specific diseases.</p> <p>Upon successful completion of the course students:</p> <ul style="list-style-type: none"> • Will be able to understand basic concepts and terms of pathophysiology • Be able to explain and describe the normal functions of the human body and relate their disorders to diseases • Will be able to understand the pathogenetic mechanism of the disease • They will have developed significant knowledge about the pathophysiology of diseases that need special diet regarding their prevention and/or treatment
General Competences
<ul style="list-style-type: none"> • Search for, analysis and synthesis of data and information • Adapting to new situations • Working in an interdisciplinary environment • Acquisition of the appropriate theoretical cognitive background so that further education is possible • Making a decision • Production of new research ideas

3. COURSE CONTENT

- Basic principles of cell physiology-Tissue damage
- Pathophysiology of the immune system dysfunction
- Pathophysiology of the respiratory system dysfunction
- Pathophysiology of the circulatory system dysfunction
- Pathophysiology of the hematopoietic system dysfunction
- Pathophysiology of renal diseases
- Pathophysiology of fluid-electrolytes-acid-base balance disorders
- Pathophysiology of the gastrointestinal system dysfunction
- Pathophysiology of endocrine diseases
- Metabolic diseases

4. TEACHING METHODS - ASSESSMENT

MODES OF DELIVERY	Face-to-face	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	-Use of PowerPoint presentation program during the educational process -Support of the Learning Process through the e-class platform -Communication with the students via email	
COURSE DESIGN	Activity/Method	Semester workload
	Lectures	40
	Study and analysis of bibliography	20
	Self-directed Study	65
	Total	125
STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS	Written final exam (100%) which includes: - Multiple choice questions - Short-answer questions	

5. SUGGESTED BIBLIOGRAPHY

1. Μουτσόπουλου Αρχές Παθοφυσιολογίας. Βλαχογιαννόπουλος Π, Τζιούφας Α. ISBN: 9789925563340. BROKEN HILL PUBLISHERS LTD. 2018
2. ΠΑΘΟΛΟΓΙΚΗ ΦΥΣΙΟΛΟΓΙΑ (Β' έκδοση). Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης. Συλλογικό έργο. ISBN: 9789601221830. UNIVERSITY STUDIO PRESS. 2014
3. Παθοφυσιολογία Νόσων. Hart N.M., Loeffler G.A. ISBN: 9789963716326. BROKEN HILL PUBLISHERS LTD. 2013