

COURSE: General Pathology			
ACADEMIC YEAR: 2016-2017			
TYPE OF EDUCATIONAL ACTIVITY: Basic			
TEACHER: Prof. Giuseppe Terrazzano			
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phone: 0971206163		mobile (optional):	
Language: Italian			
ECTS: 6	n. of hours: 40	Campus: Potenza Dept./School: Dipartimento di Scienze Program: BIOTECNOLOGIE (L2)	Semester: (from 03/10/2016 to 31/01/2017)

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

- The course of General pathology is the main teaching whose educational purpose is the transfer of knowledge about the biological basis of disease. The main objective of the course will be to address the study of the main pathogenic factors biological-chemical-physical features in human and animals and the pathogenetic mechanisms responsible for homeostasis alteration underlying disease's onset and the development and progression of pathological events. Additional aim is the acquisition of basic and common elements of medical terminology.
- The main knowledge provided will be:
 - the elements and the basic principles about the mechanism and determinism of diseases;
 - The knowledge of the pathological manifestations at the level of molecules and cells, as well as of tissues, organs, apparatuses and systems of the human body and animals;
 - The basic knowledge about the immune system and its role in defense against disease;
- The main student's ability will be:
 - the correct identification of the main causes of disease etiology, as well as the scientific-experimental methodologies for the understanding and study of pathogenetic mechanisms;
 - The analysis and evaluation of pathological processes,
 - The use of the acquired knowledge concerning the disease determinism for the identification of therapeutic and biotechnological strategies;
 - The appropriate acquisition of medical terminology.

PRE-REQUIREMENTS

The mandatory prerequisite is to have successfully argued the final examinations for the Biochemistry and General Biology courses. It is also considered crucial to have acquired and assimilated the following knowledge, typically provided by the courses of the first two years of the degree in Biotechnology:

1. elementary concepts of the structure of molecules, cells and cell substructure;
2. Knowledge over the fundamental concepts of biological and biochemical processes, particularly those relating to the Biology and Biochemistry representing prerequisites for Pathology;
3. Knowledge over the basics of anatomy and physiology of the cell, organs, apparatus and systems in human and animals;

SYLLABUS

The course is divided into the following thematic-learning modules based on classroom lessons (see detailed course program): 1. Basics (2 hours); 2. General etiology (4 hours); 3. Genetic Pathology (10 hours); 4. Adaptations and cellular mechanisms of injury (2 hours); 5. The molecular mechanisms of cell injury (6 hours); 6. Response to damage: repair processes (2 hours); 7. Response to damage: host-parasite interaction and immunities (6 hours); 8. Cellular and molecular basis of the immune response (6 hours of lectures); 9. Tumors (10 hours of lectures);

TEACHING METHODS

The course includes 48 hours of teaching, divided into classroom lessons

EVALUATION METHODS

Final oral examination to ascertain the acquisition by the students of the knowledge and skills described in the "Educational objectives and expected learning outcomes". The final evaluation will be expressed by a vote (30/30).

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Pontieri. Patologia Generale - PICCIN;
- Parham. Immunologia- EDISES;
- Robbins e Cotran, Le basi patologiche delle malattie, Elsevir Editore
- Abbas. "Immunologia Cellulare e Molecolare", Piccin Editore
- Doan, Le basi dell'immunologia, Zanichelli.

INTERACTION WITH STUDENTS

At the beginning of the course, after describing the objectives, the detailed program and the Learning method, the teacher will indicate the reference texts and the availability of teaching materials (lessons, lecture notes, scientific articles, the course program , etc.). In this regard, during the course, the teacher will share with students, in electronic format (pdf sheet), each lesson took place on an appropriate web platform. The hours reserved for the interaction with student will be from 11.30 to 13.30 on Wednesday and from 14.00 to 15.00 on Thursday. In addition, the teacher will be available for contact with the students, through the use of email or phone.

EXAMINATION SESSIONS (FORECAST)¹

8/02/2017, 13/04/2017, 10/05/2017, 05/07/2017, 12/09/2017, 14/11/2017

SEMINARS BY EXTERNAL EXPERTS YES ☐ NO ☒

FURTHER INFORMATION

¹ Subject to possible changes: check the web site of the Teacher or the Department/School for updates.