



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pathology

2627-2-I0301D007

Aims

Knowledge and understanding - At the end of the course, the student will have acquired knowledge and understanding of the ethiology and molecular and cellular mechanisms underlying human pathologies including genetic diseases. Furthermore, the student will understand the pathogenesis of inflammation, neoplasia. Likewise, the student will acquire knowledge and understanding of microbic genetics and metabolism and of microbic disease pathogenesis, and will understand the physiology of immune defense and of hemopoietic system, and the effects of their dysfunction.

Applying knowledge and understanding: Upon completing the course, student will be able to recognize the causes and pathogenetic mechanisms underlying various genetic, infective and neoplastic pathologies. She/he will also be able to analyze the impact of immune system alterations on its function.

Making judgments - Through the description of pathologies that are frequent among general population, the student will integrate knowledge related to ethiology and pathogenesis of neoplastic, inflammatory and microbic diseases developing the ability to evaluate its impact on clinical aspects.

Communication skills - At the end of the course, the student will have gained the ability to clearly explain, with appropriate terminology and scientific rigor, the topics covered during the course.

Learning skills - By the end of the course, students will have received the tools to continue learning and updating autonomously, thanks to constant reference to the described ethiopathogenetic processes.

Contents

Ethiopathogenesis of genetic, inflammatory, oncological and immunological diseases; ; microbic genetics and metabolism; pathogenesis of microbic diseases; the effects of functional alterations of haematological and

immunological cells.

Detailed program

For the detailed program of the course, look at the detailed program of the single modules

Prerequisites

Teaching form

The lessons of General Pathology, General Fisiopathology, Clinical Pathology, Genetic Pathology and Blood and Immune system diseases are frontal lessons in attendance

The lessons of Microbiology are both frontal and interactive lessons in attendance

Textbook and teaching resource

- G.M. Pontieri ELEMENTI DI PATOLOGIA GENERALE E FISIOPATOLOGIA GENERALE IV ed. PICCIN
 - Lanciotti, Microbiologia clinica con approfondimenti online e laboratorio simulato, Quinta edizione Eudes 2021
 - Thompson and Thompson, Genetics in medicine, 8 ed. Elsevier
 - Strachan & Reid, Human Molecular Genetics, 4 Ed. Garland Science
- Teachers will provide other didactic materials

Semester

Second year- First semester

Assessment method

Written tests with mandatory final oral test.

Written test will be composed of:

? Multiple choice test to evaluate global knowledges about course program of Microbiology

? Multiple choice test to evaluate global knowledges about course program of Genetic Pathology

? Multiple choice test to evaluate global knowledges about course program of Blood and Immunological Diseases

Final Oral test to evaluate scientific and disciplinary communication skills on General Pathology, General Fisiopathology and Clinical Pathology topics

Final judgment is based on both written and oral tests evaluation

Office hours

making an appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION
