



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Fisiologia Umana

1718-2-H4101D253

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#### Aims

It is essential that all medical students receive sufficient exposure to the physiological concepts underlying the functions of the human body that will provide the basis for further studies in pharmacology, pathology, pathophysiology and medical clinics and surgery. Curricular objectives are mainly focused on the normal function of the body, however, the material is presented in a context that prepares students for their role as doctors. Therefore, whenever possible, clinical examples will be used to illustrate physiological baseline principles.

#### Contents

The course is based on the systematic presentation of physiological concepts based on the functions of the human body. The mechanism leading to an imbalance of function cannot be appreciated without a deep understanding of the biophysical and physiological basics. Therefore, such mechanisms that ensure the functions at the cellular level, tissues, organs and apparatus and at the integrated level will be introduced. In particular, the course will address the physiology of excitable and non-excitable cells, of the cardio-circulatory, respiratory, renal, digestive, nervous system, motor functions and superior nervous functions.

#### Detailed program

For the detailed program, see modules Physiology 1A, Physiology 1B and PHYSIOLOGY 2

#### Prerequisites

Knowledge of the introductory courses indicated in the guidance of the degree course

## **Teaching form**

Lectures, Laboratories

## **Textbook and teaching resource**

KLINKE, Fisiologia EdiSES

CONTI, Fisiologia Medica, EDIERMES

GUYTON & J.E. HALL, Fisiologia medica, Piccin

D'ANGELO, PERES, Fisiologia, EDIERMES

GRASSI, NEGRINI, PORRO Fisiologia Medica, POLETTI EDITORE

MISEROCCHI G. Fisiologia e Fisiopatologia Respiratoria, CEA

MC ARDLE, KATCH, KATCH, Fisiologia applicata allo sport, CEA

KANDELL, SCHWARTZ, JESSEL, Principi di Neuroscienze, CEA

## **Semester**

First and Second Semester

## **Assessment method**

Multiple choice questions preparatory to the oral exam.

## **Office hours**

By appointment

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