



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Fisiologia Umana

2425-1-I0102D004

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#### Aims

Expand knowledge of human physiology and medical physics through learning from researchers in their fields. There is an emphasis on integrating systems and whole body function, which makes this teaching methodologically very relevant in order to be skillful in nursing and midwifery professions. Biophysics: statics and its applications to the equilibrium of the human body, hydrostatic and hydrodynamic of the circulatory system, physics of radiation.

#### Contents

Human Physiology course aims to give the student the concepts that govern integrated body functions in the living organisms. Emphasis is put on relationships between health and body homeostasis, from the cells to the organ systems. Thus, an attempt will be made to define the limit of physiological adaptation to environmental conditions or to a developing disease. The course also aims to provide the basic principles of biophysics and medical physics needed to understand the biophysical mechanisms underlying the more relevant physiological processes.

#### Detailed program

Please, refer to the specific module

#### Prerequisites

Basic knowledge of Chemistry, Biochemistry, and Mathematics

## **Teaching form**

Lectures. For the detailed teaching form, refer to the single modules.

## **Textbook and teaching resource**

Poltronieri Elementi di Fisiologia EdiSES

PHYSIOLOGY - Sherwood L. (2012) Fondamenti di Fisiologia Umana, Piccin-Nuova Libreria. Open choice by students among the Medicine Library's Physiology text books.

## **Semester**

1 year - 2 Semester

## **Assessment method**

The assessment method involves integrated evaluation of the profit obtained in the two modules according to the detail described in each module

## **Office hours**

Previous appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY | REDUCED INEQUALITIES

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