



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Fisiologia

2324-1-I0301D003-I0301D012M

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#### Aims

The student will learn:

- To know and describe the functional mechanism of the integrated biological processes in conditions of normality and the fundamental tools for the pathologic alteration comprehension.

#### Contents

The Physiology Module provides the student with the essential theoretical of the functional mechanisms of the biological phenomenon integrated in normal conditions and the basic tools to interpret pathological changes.

#### Detailed program

- Physiology of the cardiocirculatory system: viscosity and density of the blood; the heart; ventricular pressure-volume relation; conduction system; electrocardiogram; arterial blood pressure and its determinants; blood pressure measurement;
- Respiratory physiology: oxygen transport-utilization system; transport of O<sub>2</sub> and CO<sub>2</sub> in the blood; principles of mechanics. Acid-base balance. Maintenance of water-salt balance: Homeostasis and internal environment;
- Renal physiology;
- Digestive system physiology;
- Nervous system physiology;
- Muscle physiology;
- Principles of sport physiology.

## **Prerequisites**

## **Teaching form**

Lectures

## **Textbook and teaching resource**

AA.VV. : Fisiologia dell'uomo. Edizioni Edi.Ermes, Milano.

Guyton A.C.: Elementi di fisiologia umana. Piccin Editore.

Last editions

Physiology: Teacher will provide other educational material.

## **Semester**

First semester

## **Assessment method**

The evaluation of the student includes a written exam (evaluation in thirtieths) composed of TEST WITH 30 CLOSED ANSWER (Multiple choice). At the discretion of the professor, the oral examination will be held.

## **Office hours**

Reception by appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION

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