



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Biomedical Sciences 1

2324-1-I0102D001

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#### Aims

Students will acquire the knowledge of the histological and anatomical bases essential for the study and understanding of human physiology and pathology. He must also know the structure and function of cellular components and the related molecular mechanisms. Chromosomal pathologies; the concepts and methods of transmission of hereditary characters and "non-traditional" pathogenetic mechanisms; the basis for the qualitative and quantitative knowledge of biological phenomena.

#### Contents

The course aims to provide information for understanding the organization of the human body; to explain how cells and tissues are organized to form organs and systems; to highlight the functional correlations of the micro- and macroscopic anatomy. It also aims to transmit the knowledge of the structure and function of the various components of eukaryotic cells, the molecular mechanisms involved in cell replication, the molecular mechanisms involved in gene expression; chromosomal pathologies; the concepts and methods of transmission of hereditary characteristics "non-traditional" pathogenetic mechanisms, as well as the foundations for the qualitative and quantitative knowledge of biological phenomena for a correct application of therapeutic prescriptions.

#### Detailed program

Details are provided in each specific module

## **Prerequisites**

## **Teaching form**

Frontal lectures

## **Textbook and teaching resource**

Details are provided in each specific module

## **Semester**

1st year, I semester

## **Assessment method**

Written exam.

Details are provided in each specific module

## **Office hours**

on appointment

## **Sustainable Development Goals**

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

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