



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Biochemistry 2

2627-1-I0203D001-I0203D00102

Aims

The course aims to develop in students an understanding of the fundamental mechanisms that regulate molecular organization, biochemical reactions, cellular and subcellular morphology, and the metabolic cycles that drive their function, as well as the anatomy of the osteoarticular system. The course also aims to develop students' knowledge of the structures that govern movement. At the end of the course, students are expected to have acquired the necessary skills to understand the physiological aspects of movement.

Contents

Biochemistry of muscle and connective tissue. Bioenergetic of muscle contraction; caloric value, equivalent caloric. Different esoergonic systems in the physical exercise (aerobic and anaerobic physical activity).

Detailed program

Lipids and proteins metabolims.

Biochemistry of muscle and connective tissues.

Bioenergetic of muscle contraction. Collagene and extracellular matrix.

Nutrition and sport

Prerequisites

Biology and Chemistry

Teaching form

Frontal lectures in attendance.

Textbook and teaching resource

Di Giulio A., etc...Biochimica per le scienze motorie. Casa ed Ambrosiana
Bertoli, Colombo, Magni, Marin Palestini Chimica e Biochimica Edises anche in e-book
MacLaren and Morton - Biochimica metabolica dello sport e dell'esercizio fisico edi-ermes 2020 anche in e-book
Siliprandi Tettamanti Biochimica Medica V Ed Piccin

Semester

1st year, I semester

Assessment method

Written exam- 15/20 questions (multiple choice; true/false).

Office hours

on appointment

Sustainable Development Goals

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