



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Biochemistry 2

2425-1-I0201D127-I0201D102M

Aims

The course aims at developing the students' understanding of basic mechanisms regulating the molecular organization, biochemical reactions, morphology, cellular and subcellular and metabolic pathways that guide the operation and the anatomy of the osteoarticular system. Moreover, this course will provide key concepts of neuroanatomy and movement neurophysiology that will help in the knowledge of the systems that control the movement. By the end of the course, the students will acquire the skills necessary to understand the physiological aspects of the 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

Biochemistry of muscle tissues.
Biochemistry of connective tissues.
Bioenergetic of muscle contraction. Collagene and extracellular matrix.
Nutrition and sport

Prerequisites

Biology and Chemistry

Teaching form

6 hr (3 classes of 2 hr): In presence frontal lectures

2 hr (1 class of 2 hr): Online live (or not) lectures

Textbook and teaching resource

Slides.

Suggested books:

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).

Office hours

on appointment claudia.corbo@unimib.it

Sustainable Development Goals

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