UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Animal and Cell Biology

2223-1-E3201Q088

Aims

The course is divided into two modules: Cell Biology (first module) e Animal Biology (second module).
The Cell biology module is delivered in the first part of the first semester, while the Animal biology (Zoology) module in the second part of the first semester.
The Cell Biology module will provide the student with the student with the basic morphological and functional knowledge of the animal eukaryotic cell and its subcellular components and knowledge related to tissue/organ organization. The lectures will be supported by the laboratory activity in which the technical-theoretical informations for the preparation of histological samples will be provided. Moreover, the theoretical description, together with the observation of histological samples, will allow students to understand the organization of the tissues / organs that represent the interface between the organism and the environment. This knowledge will allow students to understand some of the interactions that occur between the organism and environmental pollutants and will be preparatory with some courses that the student will follow during his training.
The contents of the Animal Biology (Zoology) module aim to provide the student with the knowledge related to the diversity of the animal kingdom in an evolutionary perspective. Specifically, the course aims to present an overview of the animal kingdom, recognize the evolutionary relationships between taxa and give meaning to the morphological-functional adaptations forged by selective pressures and appeared during the course of adaptive radiation. The course includes mandatory practical activities in which some of the topics covered during the lectures will be deepened, which will allow to better appreciate the meaning of the morphological-functional adaptations. To this end, slides of zoological preparations and soil and aquatic meiofauna deriving from specimens specifically collected will be viewed using optical instruments (stereoscopes and microscopes).
The acquired knowledge will be preparatory for the continuation of the training course aimed at preparing expert figures in the different professions in the environmental field.

Contents

For contents, consult the program of each single module

Detailed program

For contents, consult the program of each single module

Prerequisites

For contents, consult the program of each single module

Teaching form

For contents, consult the program of each single module

Textbook and teaching resource

For contents, consult the program of each single module

Semester

For contents, consult the program of each single module

Assessment method

For contents, consult the program of each single module

Office hours

For contents, consult the program of each single module

Sustainable Development Goals

QUALITY EDUCATION