



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Preventive Medicine

2526-4-H4102D059-H4102D116M

Aims

The aim of the course is to provide students with principles, concepts, and methods of Preventive Medicine. In detail, the course aims to provide students with the cultural tools to be able to:

- Understand the study and research area of preventive medicine
- Recognize health problems in living and working environments, and manage them correctly
- Learn the concepts of epidemiology, surveillance, and prevention of infectious diseases
- Learn the concepts of epidemiology and prevention of non-communicable diseases
- Deepen knowledge on global health issues and the health problems that affect health and access to prevention and treatment at a global level

Contents

The course will provide students with knowledge in the following topics: an introduction to preventive medicine; epidemiology and control of communicable diseases, including vaccines; surveillance systems; epidemiology and control of non-communicable diseases; screening; and health problems of global interest.

Detailed program

Introduction to Preventive Medicine and Public Health

Epidemiology and prevention of infectious diseases

- Sources and reservoirs of infection. Modes and chain of transmission.

- Epidemiological patterns
- Surveillance and reporting
- Disinfection, sterilization, asepsis, antisepsis, pest control, decontamination
- Vaccines and vaccinations
- Passive immunoprophylaxis and chemoprophylaxis
- Diseases of global health interest. Travel medicine and measures to protect travelers

Epidemiology and prevention of non-infectious diseases

- Chronic degenerative diseases: main epidemiological patterns and their social health impact. Health promotion aspects.
- Secondary prevention and screenings

Environmental health

- Traditional and emerging environmental issues
- Enclosed environment, microclimate, and indoor pollution

Food hygiene

- Infections, foodborne infections, and intoxications
- Production, preservation, and handling of food

Hygiene in healthcare facilities

- Hygienic and organizational issues of healthcare facilities
- Epidemiology and prevention of healthcare-associated infections

Prerequisites

No prerequisites are required.

Teaching form

The lectures will be held in English, and all activities will be conducted in person.

Lessons will be characterized as follows:

4 lessons of 2 hours with a lecture part;

1 interactive lesson of 2 hours, where students will participate in a practical session on a case study

Textbook and teaching resource

Slides and other teaching resources that will be made available on the e-learning platform.

Semester

Second semester

Assessment method

Written exam including multiple choice questions, with the aim of testing the overall competence acquired on the program

Office hours

Upon request by email, in the Webex room of the teacher.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
