

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

## **COURSE SYLLABUS**

## **Preventive Medicine**

2425-4-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 particiapte 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