UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

# Epidemiology and Public Health

**2122-4-H4101D263-H4101D083M**

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### Aims

The aim of the course is to provide students with principles, concepts and methods of epidemiology along with the tools aimed to design a proper epidemiological study.

### Contents

The aim of the course is to provide students with principles, concepts and methods of epidemiology (descriptive, etiologic, prognostic), focusing on the Population-Observation-Inference paradigm.

### Detailed program

The aim of the course id to provide students with principles, concepts and methods of epidemiology, focusing on the Population-Observation-Inference paradigm. Diagnostic, prognostic and etiognostic study design will be presented and epidemiologic indicators will be discussed, including prevalence, incidence, absolute rand relative risk, oddds ratio, incidence density type ratios, NNT and NNH. Inference and necessary and sufficient causes will be presented. Examples will mostly be focused on non-communicable disease epidemiology and pharmaco-epidemiology.

### Prerequisites

### Teaching form

Lectures and practical workshops

## Textbook and teaching resource

Signorelli C (editor). Igiene e Sanità Pubblica. SEU, Roma, 2017

Digital learning material

Santos Silva I. IARC, Lyon. Cancer Epidemiology: Principles and Methods, 1999

## Semester

Second semester

## Assessment method

Written exam with subsequent discussion of the results from the written exam

## Office hours

By appointment, write to giampiero.mazzaglia@unimib.it