



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Statistics in Medical Research

2122-2-I0102D012-I0102D039M

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#### Aims

By the end of the course, the student will know how to collect, to order and to analyze data from professional context.

#### Contents

The course provides basic knowledges about health data collection and analysis.

#### Detailed program

Collecting, measuring and analyzing data. Hints of probability assessment. The Gaussian distribution. Sampling and statistical inference. Introduction to evaluation and hypothesis testing. The sensitivity and specificity of a screening test. Presenting results of a research study.

#### Prerequisites

None

#### Teaching form

Lectures, practice exercises.

## **Textbook and teaching resource**

Slides shown during lectures.

Textbook (not mandatory): Fowler J, Jarvis P, Chevannes, Statistica per le professioni sanitarie , Edises 2006.

## **Semester**

II semester

## **Assessment method**

Written exam with exercises and multiple choice questions.

Oral exam with commentary to exercises and open questions.

## **Office hours**

On appointment upon e-mail request.

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