



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Biostatistics

2425-4-H4102D089-H4102D099M

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#### Aims

The student will learn:

- the basic tools to understand scientific results in observational and experimental studies with continuous outcome, binary outcome, survival time outcome.
- how to interpret results from regression models relating aforementioned outcome to explanatory/exposure variables.

#### Contents

- Recap on Descriptive Statistics
- Linear Regression Model
- Logistic Regression Model
- Survival analysis

#### Detailed program

- Recap on Descriptive Statistics
- Linear Regression Model
- Logistic Regression Model
- Survival analysis

## Prerequisites

Basic descriptive and inferential statistics

## Teaching form

Standard synchronous classes

## Textbook and teaching resource

- Recap on Descriptive Statistics  
<https://hbiostat.org/bbr/descript>
- Linear Regression Model  
<https://hbiostat.org/bbr/descript>
- Logistic Regression Model  
Book chapter 10 - Section 10.1
- Survival analysis  
Book chapter 17 - Section 17.1 17.2 17.3
- R studio software <https://posit.co/download/rstudio-desktop/>

## Semester

- First semester
- From 10 to 13, LAB in Monza

## Assessment method

On [esamionline.elearning](https://esamionline.elearning) platform.

Type of test: multiple choice/open questions (10 questions, 3 points for each correct answer, no penalties for wrong answers), 3 additional points scored by the offline question.

If the total score is  $\geq 18$  you pass.

## Office hours

Under request by the elearning email, in the Webex room of the teacher.

## **Sustainable Development Goals**

QUALITY EDUCATION | GENDER EQUALITY

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