



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Statistical Methods For Management

2021-1-F7701M093-F7701M104M

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#### Learning objectives

The course aims to present to students the statistical methods, that are typically applied to multivariate data.

#### Contents

Multivariate statistical data analysis

#### Detailed program

- Multiple linear Regression
- Principal Components Analysis
- Cluster Analysis
- Correspondences Analysis

- Discriminant Analysis

## **Prerequisites**

Elements of asymptotic inference and descriptive statistics

## **Teaching methods**

35 hours of theoretical lectures, 5 cfu, completely in remote mode, asynchronical with some events in physical presence

## **Assessment methods**

A paper (report), written in ENGLISH or in ITALIANO on an application on a data set of one or two tools presented in the course, by producing, in SPSS software, the output and developing a punctual comment on it. Then, the student will have a theoretical talk about the course program.

## **Textbooks and Reading Materials**

Slides in e-learning website, in italian

In english:

- G. Chow, ECONOMETRICS, Mc Graw Hill ed.,

chapter on "general linear regression", only

- W. Hardle, L. Simar APPLIED MULTIVARIATE STATISTICAL ANALYSIS, Method & Data Technologies ed.

chapters 11, 12.2 pp. 333-337 (in 2003 edition), 13

## **Semester**

First Semester

## Teaching language

Italian

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