



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Laboratorio di Informatica

2223-1-E4101B004

Learning objectives

This course will introduce the SAS system and R, with a special focus on their programming languages, to allow the student to acquire the necessary knowledge and skills to use SAS and R to analyze data.

Knowledge and understanding

This course will provide the basic knowledge and understanding on:

- Managing tabular data in SAS (dataset)
- Managing tabular data in R (data frame)
- Data analysis in SAS

Ability to apply knowledge and understanding

At the end of the course the students will be able to:

- Write basic SAS programs for data analysis
- Write basic R programs for data analysis

Contents

Introduction to SAS

Managing data with SAS

Introduction to R

Detailed program

Introduction to SAS, Data step e Proc step. import, Proc print

Proc contents, Proc Means, output, maxid

Proc Freq

ODS

Proc Sort, Merge

Proc Format

Introduction to R: syntax and a comparison with SAS

Prerequisites

None

Teaching methods

The course is taught in blended e-learning.

The lectures are in a computer lab and are dedicated to discuss how to tackle and solve some problems. Some videos will provide the necessary notions on SAS and R.

There are several exercises via e-learning, where the acquired knowledge is applied to solve some problems on tabular data.

Assessment methods

Written exam consisting of writing (at the PC) some short SAS programs to solve some problems. Moreover, there will be a multiple choice quiz to assess the knowledge of R.

The grading is based on correctness, completeness, simplicity of the proposed solution.

Beware that you must be registered via "segreterie online" to take the exam. If you are not registered, you will not allowed to take the exam. No exceptions will be made.

Textbooks and Reading Materials

- [“The Little SAS Book](#), SAS Institute

Semester

Second

Teaching language

Italian

Sustainable Development Goals
