

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Statistics for Research

2324-3-I0202D130-I0202D059M

Aims

Consolidation of basic knowledge of the main statistical-methodological tools of descriptive statistics and introduction to inferential statistics for study planning and data analysis

The module aims to make the student able to:

- Critically read the scientific literature that presents descriptive and inferential statistical analyzes with confidence intervals
- Have a solid basic knowledge to be involved in the design and implementation of studies

Contents

Basic definition of probability calculus, confidence interval

Detailed program

Basic definition of probability calculus: random experiment, sample space, simple events, compound events Probability with classical approach, Probability with Frequentist approach Incompatible events

Two or more events (simple and/or compound) are incompatible if it is not possible to observe them simultaneously.

 $Independent, \ dependent, \ compatible, \ incompatible \ events$

Probability of union and intersection

Conditional probability

	bility from censorship data (outline of Italian school open data) genesis, calculation, interpretation, simulation
Prerequisites	
Basic knowledge of	descriptive statistics.
Teaching form	
Specified in the sylla	abus of the course.
Textbook and te	eaching resource
"Fondamenti di stati	stica" Sullivan edito da Pearson
Semester	
Specified in the sylla	abus of the course.
Assessment me	ethod
Specified in the sylla	abus of the course.
Office hours	
Specified in the sylla	abus of the course.
Sustainable Dev	velopment Goals