

## COURSE DETAIL

### STATISTICS

**Country**

Italy

**Host Institution**

University of Bologna

**Program(s)**

University of Bologna

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

157

**UCEAP Course Suffix****UCEAP Official Title**

STATISTICS

**UCEAP Transcript Title**

STATISTICS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrollment is by permission of the instructor. At the end of the module, students: know the most relevant univariate and multivariate analytical techniques and tools; can perform statistical analyses of cross-sector and longitudinal data and deliver suitable graphic representations, making results comprehensible to organizations' decision makers.

The course content is divided as follows:

1. Introduction to data: Data basics; Sampling principles; Experiments and observational studies
2. Summarizing data: Examining numerical data; Considering categorical data
3. Probability: Defining probability; Conditional probability; Bayes theorem
4. Random variables: Discrete and continuous; Expectation
5. Distributions of random variables: Normal; Geometric; Bernoulli
6. Foundations for inference: Point estimates; Confidence intervals; Hypothesis testing

## Language(s) of Instruction

English

## Host Institution Course Number

96844

## Host Institution Course Title

STATISTICS

## Host Institution Course Details

<https://www.unibo.it/en/study/course-units-transferable-skills-moocs/course-uni...>

## Host Institution Campus

BOLOGNA

**Host Institution Faculty****Host Institution Degree**

LM in LAW, ECONOMICS AND GOVERNANCE

**Host Institution Department**

SOCIOLOGY AND BUSINESS LAW

**Course Last Reviewed**

2025-2026

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