

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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