

COURSE DETAIL

STATISTICS

Country

Italy

Host Institution

University of Commerce Luigi Bocconi

Program(s)

Bocconi University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics Mathematics

UCEAP Course Number

108

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 aims at providing the basic theoretical and applied tools for a rigorous statistical analysis. Specifically, the course focuses on techniques to summarize and visualize data of different types and their possible relations, as well as on basic sampling and inferential procedures, and on the assessment of the risk associated to extrapolation and inference. In particular, students learn how to extract information from data and how to assess the reliability of such information. The course covers the following topics: collection, management, and summary of data using frequency distributions, graphical representations, and summaries; study of the relationship between two variables; statistical inference and sampling variability; theory of point estimation and confidence intervals; hypothesis testing; and simple and multiple regression models. All the descriptive and inferential tools introduced during the course are applied to data using the statistical software R - and in particular the integrated development environment (IDE) RStudio. Prerequisites: understanding of the concepts of probability theory and random variables.

Language(s) of Instruction

English

Host Institution Course Number

30001

Host Institution Course Title

STATISTICS

Host Institution Course Details

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Host Institution Campus

Bocconi University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Decision Sciences

Course Last Reviewed

2023-2024

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