

Self-Study Preparation Course Statistics for MSc Banking and Finance

You get the chance to learn the basics of statistics which are required for the lectures “Quantitative Methods”, “Investments”, “Risk Management”, “Advanced Quantitative Methods”, “Machine Learning” and “Deep Learning” in the MSc Banking and Finance.

Course Description

Students will learn the basics of statistics, which are required for the methodological lectures of our master’s program MSc Banking and Finance. This course is setup as a self-study program with Q&A sessions held by lecturers who will also teach these lectures in the MSc Banking and Finance. It contains material on descriptive and inferential statistics and thus covers the basics for

understanding many aspects of finance and data science.

The course provides statistic theory as well as several hands-on exercises. This model allows students to quickly grasp the main concepts and learn their relevance and practical application in their own time-set.

Course Content

Block 1: Basic math (functions, derivatives and integrals)

Block 2: Basic statistical notions (samples, data types, diagrams), statistical parameters

Block 3: Probability theory

Block 4: Discrete and continuous random variables

Block 5: Sampling and sample distributions

Block 6: Point- and interval estimation

Additional Information

Head of Program

Dr. Bledar Fazlija is Senior Lecturer for “Statistics”, “Machine Learning” and “Deep Learning” at ZHAW School of Management and Law.

Costs

The self-study program is free of charge.

Target Audience

This course is the ideal preparation for ZHAW students who will begin the Banking and Finance Master's program or master's programs such as International Business, Business Administration, etc.

We recommend all students who need to improve their mathematical and statistical background efficiently and adequately to join this course. In principle, all ZHAW students can participate.

Course Dates

The self-study area is accessible as of June 8th, 2026. During the semester we will organize three onsite or remote Q&A sessions. Dates will be announced via MS Teams channel.

MS Teams

Students will be invited to join a closed MS Teams channel where the entire course material is accessible. Interactions and knowledge-transfer through the channel are welcome.

Registration, Cancellation

Please register at <https://www.zhaw.ch/de/sml/studium/master/banking-and-finance/precourse-statistics/>.