



## Online Statistics Preparation Course 2021 for MSc Banking and Finance

August 9 – August 14

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You will 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.

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### 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 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.

During the **6 full course days**, theory will be discussed, and the solving of exercises practiced. The theory will be introduced in the morning sessions and then applied in the afternoon sessions. This model allows students to quickly grasp the concepts and learn the relevance and practical application.

### 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  
Senior Lecturer for “Statistics”, “Machine Learning” and “Deep Learning”.

## Prize

1350 CHF, including course material.  
*Early bird:* If you register July 1 at the latest, you will receive a 15% discount.

## 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 attend this course. In principle, all ZHAW students can participate.

## Course Dates

August 9 - August 14, six full course days.  
08:00 – 16:45 o'clock, with lunchtime break.

## Online Lectures

The entire course will be held interactively online with Microsoft Teams.

## Registration, Cancellation

Please register at <https://www.zhaw.ch/de/sml/studium/master/banking-and-finance/precourse-statistics/>.  
The closing date for registration is August 1, 2021 and registrations will be confirmed by e-mail. Cancellation after confirmed registration will result in a processing fee of CHF 100. If a cancellation is made after August 1, 2021, the course fees are non-refundable.

# Testimonials

The statistics preparation course was conducted as an online course for the first time in August 2020 and received very positive feedback from the course participants.

«The preparation course was excellent, although it was held online. I have taken two statistics courses two years ago and had some difficulties at that time. The structure of this course and your dedicated teaching helped me a lot. You managed to compress a one-year lecture into 6 days, and I am very grateful for that».

X. L., course participant

«As I will be studying in Capital Markets and Data Science and because it has been over 7 years since I did statistics for my bachelor's degree, it was very important for me to refresh the basics of statistics and I'm very glad that I took part in your preparation course. It will definitely help me during my master's studies to understand modules such as Quantitative Methods and Machine Learning better and faster».

D.D., course participant

«I want to thank you for teaching the course. The way you explained the topics was very clear and it was easy for me to understand it. As a student who did not take math classes a lot during my undergraduate studies, I will 100% recommend this course to future MSc students. This course has helped me understand the basic concepts of statistics and it is worth it».

R. J., course participant

«As I was working in marketing for the last 5 years and did not have any contact with statistics/math theory, this refresher course was great. I really appreciated how you wrote the detailed formulas or drew a graph to explain what we were actually doing (do we calculate an area, or a point, where does the point lie, etc.), not just filling out formulas, not knowing what the result of the formula means. You also took your time to explain the same things again, when someone asked».

S. S., course participant