

ORIENTATION PROGRAM
For students of Master programs
School of Business and Economics
Winter term 2022/23

September 09 to October 10	Central welcome and information events, HU Berlin	For dates see https://hu.berlin/willkommen
Monday, October 10, 2 to 4 p.m. Location: Spandauer Str. 1, room 220	Welcome meeting for incoming exchange students at the Faculty of Economics and Management Sciences, International Office, L. Henn/M. Repenning	
Monday, October 10, 4 to 5:30 p.m. Location: Spandauer Str. 1, room 201	Welcome meeting for all Master programs from the Dean of the School of Business and Economics (Prof. Klapper) and the Student's Council.	
Monday, October 10, 5:30 to 6:30 p.m. Location: Spandauer Str. 1, room 201	Information regarding study abroad, International Office, L. Henn/M. Repenning	
Tuesday, October 11, 5:15 p.m. Location: Spandauer Str. 1, room 125	Welcome meeting MEMS (MA in Economics and Management Science), Lauren Henn	
Monday, October 17, 10 to 11 a.m. Location: Spandauer Str. 1, room 125	Welcome meeting MA Statistics Prof. Sonja Greven	
Monday, October 17 4 to 5:30 p.m. Location: Campus North, Philippstraße 13, Lecture Hall Tent	Ceremonial opening of the Academic Year 2022/2023 - Enrollment Ceremony of Humboldt-Universität zu Berlin. In presence and as Stream See: https://www.hu-berlin.de/de/studierende/veranstaltungen/zentrale-orientierungsveranstaltungen/semesterstart	
Tuesday October 18, 4 to 6 p.m. Location: tba	Welcome meeting MA Information Systems Prof. Stefan Lessmann	

Preparatory Courses

Mathematics Preparatory Course (in presence)

Location: Spandauer Str. 1, room 220

Lecturer: Miriam Ruprecht

Daily 10.00 – 17.00 (incl. breaks):

Tuesday, October 11

Wednesday, October 12

Thursday, October 13

Content:

The purpose of this course is to review and practice basic mathematical concepts that will be useful throughout your master studies at our faculty. Topics will include:

Basic Matrix Algebra (Systems of linear equations, Determinants, Eigenvalues)

Differential Calculus (of real and multivariate functions, Taylor series)

Optimization (of real and multivariate functions, with and without side constraints)

Integral Calculus

The course is open to all beginners in the Master's programs of the School of Business and Economics and will be taught in English.

Econometrics Preparatory Course (digital)

Lecturer: Dr. Vahidin Jeleskovic

Content:

1. Motivation
2. The Simple Regression Model (OLS: assumptions, model and estimator, Goodness-of-Fit, Statistical properties of the OLS estimator)
3. The Multiple Regression Model (Model, Interpretation of coefficients, Gauss-Markov-Theorem)
4. Inference & Hypothesis Testing (Testing a single parameter: the t-Test, Testing a linear combination of parameters, Testing multiple linear restrictions: the F-Test, Confidence intervals, OLS asymptotics)
5. Heteroscedasticity and Autocorrelation
6. Maximum-Likelihood-Estimation (The Likelihood function, The ML estimator, Properties)

There will be online lecture videos and two alternative exercise dates in presence on Friday, October 14, 9:00 to 12:00 and 13:00 to 16:00 (Location: Spandauer Str. 1, Room 220). Further information and lecture videos are accessible on Moodle:

<https://moodle.hu-berlin.de/course/view.php?id=114555> (Enrollment key: econprep22)

The courses of the winter semester start on October 18, 2022!