ORIENTATION PROGRAM
For students of Master programs
School of Business and Economics
Winter term 2023/24

Different dates	**Central welcome and information events, HU Berlin**	see https://hu.berlin/willkommen

Monday, October 09, 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, U. Battulga
Monday, October 09, 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), Course Adviser Master's Program Economics (Prof. Weizsäcker), Course Adviser Master's Program Business Administration (Prof. Schöttner) and the Student's Council.
Monday, October 09, 5:30 to 6:30 p.m. Location: Spandauer Str. 1, room 201	**Information regarding study abroad**, International Office, U. Battulga
Tuesday, October 10, 5 p.m. Location: Spandauer Str. 1, room 125	**Welcome meeting MEMS** (MA in Economics and Management Science), Prof. Brüggemann/Prof. Burda
Monday, October 16, 10 to 11 a.m. Location: Spandauer Str. 1, room 125	**Welcome meeting MA Statistics** Prof. Greven
Monday, October 16 4 to 5:30 p.m. Location: Campus North, Philippstraße 13, Lecture Hall Tent	Ceremonial opening of the Academic Year 2023/2024 - 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 17, 5 to 6 p.m. Location: tba	**Welcome meeting MA Information Systems** Prof. 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 10
Wednesday, October 11
Thursday, October 12

Moodle: https://moodle.hu-berlin.de/course/view.php?id=122350
Enrollment key: MathPrep23 (Enrollment is possible from October 6.)

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 constrants)
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, exercises in presence)
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 exercise dates **in presence** on Friday, October 13, 9:00 to 12:00 and 13:00 to 16:00 (Location: Spandauer Str. 1, Room 220). Both exercises are to be attend. Further information and lecture videos are accessible on Moodle: https://moodle.hu-berlin.de/course/view.php?id=121348

Enrollment key: econ2023

The courses of the winter semester start on October 17, 2023!