

Orientation Program

For students of Master programs School of Business and Economics

Thursday, 10th October 2019
Spandauer Straße 1, Room 220

10.00 – 10.20	Welcome from the Dean of the School of Business and Economics and the Student's Council of the School of Business and Economics.	Prof. Dr. Klapper Student Council
10.20 – 11.00	General and study-specific information about examination procedures and regulations by the Chairman of the Examinations Commission and the Director of the Examination Office (in German!)	Prof. Weinke, PhD Ms Kath
11.00 – 11.30	Information regarding study abroad	Mickaël Maillé, International Office
11:30 – 12:30	Information on study organisation	Sevinc Bahcivan, International Office
Break		
Presentation of course descriptions by department chairs (Business Administration)		
Management Science		
13.30 – 14.00	Management Entrepreneurial and Behavioral Decision Making Marketing Business Information Systems Operations Research	Prof. Dr. Klapper
Accounting/Taxation		
14:00 – 14:20	Business Taxation Accounting	Prof. Dr. Gassen
Finance		
14.20 – 14.40	Finance	Prof. Adam, PhD
Presentation of course descriptions by department chairs (Economics)		
14.40 – 15.00	Macroeconomics	Prof. Weinke, PhD
15.00 – 15.30	Microeconomics	Prof. Weizsäcker, PhD
15.30 – 15.50	Economic History	Miriam Röhrkasten
Presentation of course descriptions by department chairs (Quantitative Methods)		
15.50 – 16.10	Statistics and Econometrics	Prof. Dr. Greven/Prof. Dr. Droge
Doctoral Program (Berlin School of Economics)		
16.10 – 16.30	Information session for students interested in pursuing a doctoral degree	Prof. Dr. Schöttner

Monday, 14th October 2019

18.00	<p>The opening ceremony of academic year 2019/2020 – enrollment celebration of Humboldt Universität zu Berlin.</p> <p>Keynote speech: Ranga Yogeshwar – “Im Offenwerden neuer Möglichkeiten” (is taught in German)</p> <p>The program you can find here: https://www.hu-berlin.de/de/service/veranstaltungen/veranstaltungen_neu?stat=show&vk_id=7652</p>	Audience hall is in Campus Nord (Entry: Philippstraße 13 or Luisenstraße 56)
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Other Social Events see <https://www.wiwi.hu-berlin.de/de/international/incomings/admission/welcome-weeks>

Information for international students “Studying in Germany”:

Wednesday, 2nd October 2019, Time: 17.00 – 18.30	Spandauer Straße 1, Room 202	Mickaël Maillé, International Office
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Start of winter term 2019/20: Tuesday, 15th October 2019

Preparatory Courses

Mathematics Preparatory Course, Location: Spandauer Str. 1, 220

Daily 10.00 – 17.00 (incl. breaks):

September, 30th of 2019

October, 1st of 2019

October, 2nd of 2019

Lecturer: Philipp Warode

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 Master students and will be taught in English.

Advanced Mathematics Preparatory Course, Location: Spandauer Str. 1, 203

Daily 10.00 – 17.00 (incl. breaks):

September, 30th of 2019

October, 1st of 2019

October, 2nd of 2019

Lecturer: Almond Stöcker

Content: This background course on mathematics aims to provide fundamental mathematical knowledge essential for advanced economic analysis. Although open to all master students, it is specifically tailored to those wishing to directly pursue the advanced Y-track of courses. Therefore in content and form, this intensive course is intended to deliver methods beyond refreshing advanced calculus and linear algebra.

The course solely deals with deterministic mathematics. For some theorems formally rigorous proofs are presented in order to make participants more comfortable with - and ideally to provide some intuition for – constructing and understanding of mathematical proofs. Throughout the course proper use of notation will be stressed. Topics presented in class constitute the minimal required program given the above aim, and the maximal feasible program given time. Self-study should cover topics skipped in class, as well as the areas of personal weakness.

The lecture takes place as an intensive crash course in the week before the semester.

1. Sets, Relations, Preferences

characterization of and operations on sets
truth function
mappings, functions and relations
preference relations

2. Vector Spaces and Linear Algebra

general vector spaces, linear independence, basis of a vector
linear mappings between vector spaces, matrix algebra
basis transformations, eigenvalue - eigenvector decomposition

3. Topology and Convex Optimization

general definition topology, open and closed sets, topological space
metric, metric space, sequences and convergence in general metric spaces
norm, normed space and completeness of spaces: Banach and Hilbert spaces
continuity in general spaces
compactness and convexity, concavity of sets and functions and relations
separating hyperplane theorem
correspondences and fixed point theorems
existence result of convex optimization problem: Kuhn-Tucker Theorem

4. Differential calculus

differentiability in one and higher dimensions
Taylor approximation
optimization problems

Econometrics Preparatory Course, Location: Spandauer Str. 1, Room 220

Daily 9.30 – 14.30 (incl. breaks):

4th October 2019

7th October 2019

8th October 2019

9th October 2019

Lecturer: Manuel Pfeuffer and Eunseong Park

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)