

# Orientation Program

## For students of Master programs School of Business and Economics

**Thursday, 12<sup>th</sup> October 2017**  
Spandauer Straße 1, Room 220

9.00 – 10.00	Welcome from the Dean of the School of Business and Economics, Academic Advisors, and Student's Council of the School of Business and Economics.	Prof. Dr. Schade Prof. Dr. Gassen Prof. Weinke, PhD Ms Hahm Student Council
10.00 – 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 – 12.00	Information regarding study abroad	Ms Riesch
	<b>Break</b>	
	<b>Presentation of course descriptions by department chairs (Business Administration):</b>	
12.50 – 13.10	Management	Prof. Dr. Schöttner
13.10 – 13.30	Business Taxation	Prof. Dr. Maiterth
13.30 – 13.50	Accounting	Prof. Dr. Gassen
13.50 – 14.10	Entrepreneurial and Behavioral Decision Making	Ms Lauritzen
14.10 – 14.30	Marketing	Prof. Dr. Klapper
14.30 – 14.50	Business Information Systems	Prof. Dr. Lessmann
14.50 – 15.10	Financial Economics	N.N.
	<b>Break</b>	
16.00 – 17.00	Information on study organisation → Faculty of Theology, <b>Burgstraße 26, room 008!</b>	Compass-Tutor, Ms Dobler

**Friday, 13<sup>th</sup> October 2017**

Spandauer Straße 1, Room 220

	<b>Presentation of course descriptions by department chairs (Economics):</b>	
10.00 – 10.20	Economic Theory II (Macroeconomics)	G. Dlugoszek
10.20 – 10.40	Economic Policy	Prof. Weinke, PhD
10.40 – 11.00	Economic History	Prof. Dr. Wolf
11.00 – 11.50	Microeconomics	Prof. Weizsäcker, PhD
	<b>Break</b>	
	<b>Presentation of course descriptions by department chairs (Quantitative Methods):</b>	
13.10 – 13.30	Statistics	Prof. Dr. Härdle
13.30 – 13.50	Econometrics	Prof. Dr. Droge
13.50 – 14.10	Operations Research	Prof. Dr. Klimm
14.10 – 14.30	Information session for students interested in pursuing a doctoral degree	N.N.

**Monday, 16<sup>th</sup> October 2017**

14.00 – 16.00	Information for international students “Studying in Germany”, Spandauer Straße 1, Room 220	Mr Arney (International Office)
16.00	2016 Academic Year Opening Ceremony conducted by the Presidium of Humboldt University of Berlin, Unter den Linden 6, in the main auditorium (2116)	Prof. Dr.-Ing. habil. Dr. Sabine Kunst
18.00	A welcome for all newly enrolled students of the School of Business and Economics, Spandauer Straße 1, in the foyer of the Faculty (with support from WIWEX GmbH)	

Other Social Events see <https://www.wiwi.hu-berlin.de/de/international/incomings/admission/welcome-weeks>**Start of winter term 2017/18: Tuesday, 17<sup>th</sup> October 2017**

## Preparatory Courses

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

Daily 9.30 – 14.30 (incl. breaks):

6<sup>th</sup> October 2017

9<sup>th</sup> October 2017

10<sup>th</sup> October 2017

11<sup>th</sup> October 2017

Lecturer: Fabrice Wunderlich

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)

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

Daily 10.00 – 17.00 (incl. breaks):

02<sup>nd</sup> October 2017

04<sup>th</sup> October 2017

05<sup>th</sup> October 2017

Lecturer: N.N.

Content:

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

Basic Matrix Algebra and Linear Models  
Multivariate Functions (Taylor polynomials, Optimization)  
Basic Integral Calculus (if time allows)

The course is open to all Master students and will be taught in English.

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

Daily 09.00 – 16.00 (incl. breaks):

02<sup>nd</sup> October 2017

04<sup>th</sup> October 2017

05<sup>th</sup> October 2017

Lecturer: Prof. Dr. W. Wang

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