### ORIENTATION PROGRAM

**For students of Master programs**  
**School of Business and Economics**  
**Winter term 2020/21**

<table>
<thead>
<tr>
<th>Date and Time</th>
<th>Event Details</th>
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| Monday, October 26, 10 a.m. to 1 p.m. | Digital | Central HU welcoming and information event  
[https://www.hu-berlin.de/de/studierende/veranstaltungen/zentrale-orientierungsveranstaltungen](https://www.hu-berlin.de/de/studierende/veranstaltungen/zentrale-orientierungsveranstaltungen) |
| Wednesday, October 28, 12 o'clock | Digital | Welcome meeting MEMS (MA in Economics and Management Science)  
Join Zoom Meeting  
[https://hu-berlin.zoom.us/j/67817816930?pwd=UE9zWHFxeVQzVFl4TitiWWE5WHJyUT09](https://hu-berlin.zoom.us/j/67817816930?pwd=UE9zWHFxeVQzVFl4TitiWWE5WHJyUT09) |
| Thursday, October 29, 2 to 5 p.m. | Digital | Welcome meeting for all Master programs from the Dean of the School of Business and Economics and the Student's Council of the School of Business and Economics. Followed by general and study-specific information about examination procedures and regulations  
Please register for the Moodle course:  
There you will also find the zoom link. |
| Monday, November 2 | Digital | Opening ceremony of academic year 2020/2021 – enrollment celebration of Humboldt Universität zu Berlin  
[https://www.hu-berlin.de/de/pr/veranstaltungen/regelmaessige-veranstaltungen/imma](https://www.hu-berlin.de/de/pr/veranstaltungen/regelmaessige-veranstaltungen/imma) |

### Preparatory Courses

**Mathematics Preparatory Course (digital)**  
Lecturer: Philipp Warode

Online Course in the week from Monday, October 26 to Friday, October 30.

**Opening and Introduction via Zoom on Tuesday, October 27 at 10 a.m.**

There will be videos for the topics listed below as well as exercises and short online tests for practice.

**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 linear algebra (Solving systems of linear equations, determinants, eigenvalues)
- Differential calculus of real valued functions of one or more variables
- Computation of extreme values
- Taylor Series
- Integral calculus
The course is open to all Master students and will be taught in English.

Kursname: Online Mathematics Preparatory Course for Master Students 2020
Link: https://moodle.hu-berlin.de/course/view.php?id=98349
Enrollment key: math2020

Econometrics Preparatory Course (digital)
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


We have created a Moodle course and a Zoom link. The videos and materials will be accessible on Moodle from October 26, 2020.

There will be two exercise dates about zoom: Thursday, October 29 and Friday, October 30, 10 a.m. to 1 p.m.

Moodle: https://moodle.hu-berlin.de/course/view.php?id=98259
(Enrollment key: econprep20)

Zoom: https://hu-berlin.zoom.us/j/69841980801?pwd=THVSU253NmpHeURaNktRZWZQS2tCZz09
(Meeting ID: 698 4198 0801, Password: 887468)

The courses of the winter semester start on November 3, 2020!