



## Wintersemester 2025/26

Vorlesungszeit: 13.10.2025 - 14.02.2026

Wirtschaftswissenschaftliche Fakultät

Sitz: Spandauer Str. 1, 10178 Berlin

### **Dekan**

**Professor Dr. Daniel Klapper**

### **Prodekan für Forschung**

**Professor Dr. Roland Strausz**

### **Prodekan für Lehre und Studium**

**Professor Dr. Ralf Maiterth**

### **Dekanatssekretärin**

**Xenia Krüger, Tel. +49 30 2093-99500, Fax +49 30 2093-99501**

### **Verwaltungsleiter**

**Sebastian Sarch**

### **Frauenbeauftragte**

**Felicia Grätsch**

### **Referentin für Studium und Internationales**

**Dr. Anja Schwerk, Tel. +49 30 2093-99518, Fax +49 30 2093-99519**

### **Internationales**

Leiter Internationales Büro

Irene Orrigo

Studentische Mitarbeiterin ERASMUS-Programm,  
Outgoing students

N.N.

Studentischer Mitarbeiter ERASMUS-Programm,  
Incoming students

N.N.

### **Kommission Studium und Lehre**

Vorsitzende

Dr. Anja Schwerk, Tel. +49 30 2093-99518, Fax +49 30 2093-99519

### **Prüfungsausschuss für alle wirtschaftswissenschaftlichen Studiengänge**

Vorsitzender

Professor Dr. Dirk Engelmann

### **Prüfungsbüro**

Leiterin

Andrea Kath, Tel. +49 30 2093-99520, Fax +49 30 2093-99521

Ansprechpartnerin für Studierende zur  
Anerkennung: Einstufung in höhere Fachsemester

Andrea Kath, Tel. +49 30 2093-99520, Fax +49 30 2093-99521

Mitarbeiterin

Nancy Kaiser, Tel. +49 30 2093-99522, Fax +49 30 2093-99521

Mitarbeiterin

Dorit Protzek, Tel. +49 30 2093-99524, Fax +49 30 2093-99521

### **Studienbüro**

Leiterin

Jeanette Bönisch, Tel. +49 30 2093-99525, Fax +49 30 2093-99521

Studentische Studienfachberaterin

Oleksandra Varlamova

Studentische Studienfachberaterin

Mona Michelle Josephine Katzer

### **Studienfachberatung**

Studienfachberater BWL (Bachelor)

Professor Alex Stomper

Studienfachberater BWL (Master)

Professor Dr. Anja Schöttner

Studienfachberater VWL (Bachelor)

Professor Lutz Weinke

Studienfachberater VWL (Master)

Professor Georg von Weizsäcker

Studienfachberater MEMS-Programm

Professor Dr. Ulf Brüggemann

Studienfachberater Wirtschaftsinformatik (Master)

Professor Dr. Stefan Lessmann



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# Masterstudiengang Statistik - Lehrangebote der Wirtschaftswissenschaftlichen Fakultät (StO/PO 2016)

## Pflichtbereich

### 701032 Econometric Methods (englisch)

4 SWS

VL

Do

Fr

12-14

12-14

wöch.

wöch.

SPA 1, 202

SPA 1, 202

G. Uhrin

G. Uhrin

Estimation and testing in the general linear model, generalized least squares estimation, asymptotic theory, maximum likelihood estimation and likelihood based testing, nonlinear regression models, stochastic regressors, instrumental variable estimation, (generalized) method of moments.

Schätzen und Testen im allgemeinen linearen Modell, verallgemeinerte Kleinste-Quadratenschätzung, asymptotische Theorie, Maximum-Likelihood-Schätzung und Likelihood-basierte Tests, nichtlineare Regressionsmodelle, stochastische Regressoren, Instrumentalvariablenschätzung, (verallgemeinerte) Momentenmethode.

Part of the course are four ungraded homework-exercises (not applicable for the master's degree in statistics).

Literatur:

Davidson, R. and MacKinnon, J.G. (2004): Econometric Theory and Methods, Oxford University Press.

Hayashi, F. (2000): Econometrics, Princeton University Press.

Organisatorisches:

StO/PO MA 2016: 12 LP, Modul: "Econometric Methods"

StO/PO MA Statistik 2016: 10 LP, Modul "Econometric Methods"

Prüfung:

Written exam (150 min)

### 701032 Econometric Methods (englisch)

2 SWS

UE

Di

08:30-10:00

wöch. (1)

SPA 1, 202

N.N.

1) findet ab 21.10.2025 statt

### 701002 Multivariate Statistical Analysis I (englisch)

4 SWS

VL/UE

Fr

10-12

wöch. (1)

SPA 1, 202

S. Greven,

J. Feeser,

M. Jung

Mo

14-16

wöch. (2)

SPA 1, 125

S. Greven,

J. Feeser,

M. Jung

1) findet ab 17.10.2025 statt

2) findet ab 20.10.2025 statt

Moodle-Link:

<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

The students learn about theoretical foundations of multivariate statistics and are able to use basic multivariate techniques. Topics: Graphical display of multidimensional data, matrix algebra, linear model, correlation, Multivariate random variables, Multinomial distribution, Maximum likelihood theory, Principal components, Discriminant Analysis, and Cluster Analysis.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Multivariate Statistical Analysis"

Prüfung:

Written exam (90 min)

## Fachlicher Wahlpflichtbereich - Vertiefungsgebiet Statistische Inferenz

### 701015 Datenanalyse II

4 SWS

VL/UE

Di

Do

08:30-10:00

08:30-10:00

wöch.

wöch.

SPA 1, 23

SPA 1, 23

S. Klinke

S. Klinke

Moodle-Link:

<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

Die Veranstaltung beschäftigt sich mit der Zusammenhags- und Regressionsanalyse sowie der Multivariate Statistik. Themen: Bivariate Statistik, Grafik multivariater Daten, Hauptkomponentenanalyse, Faktoranalyse, Clusteranalyse, Multiple lineare Regression, Residualanalyse, Nicht- und semiparametrische Regression, Klassifikations- und Regressionsbäume und Neuronale Netze.

Organisatorisches:

StO/PO BA BWL und VWL 2016: 6 LP, Modul: Datenanalyse II"  
 StO/PO MA 2016: 6 LP, Modul: "Datenanalyse II"  
 StO/PO MEMS 2016: 6 LP, Modul: "Datenanalyse II", Major: Quantitative Methods

Prüfung:  
 Hausarbeit

## 701016 Statistical Programming Languages (englisch)

2 SWS

SE

16-19

Block (1)

SPA 1, 025

K. Reluga

1) findet vom 06.10.2025 bis 10.10.2025 statt

Moodle-Link:

<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

Students are introduced to the basic concepts of statistical programming languages such as R or Matlab and their application. They have in-depth knowledge of the mathematical and algorithmic foundations of statistical software.

Reason for block course: For educational reasons it is more reasonable to teach skills of a programming language in a block course.

The course is limited to 30 participants.

Registration via the Moodle page until 01.10.2025, 23:59, place allocation by lottery on 02.10.2025.

Selection process: Students who experience hardship, according to §90 (1) ZSP HU (health, social, disability-related or family reasons), are given preferential treatment in the selection process (evidence of hardship must be submitted to the lecturer during registration), otherwise the decision will be made using a random draw.

Please note that the course takes place within the 2nd examination period.

Organisatorisches:

StO/PO BA BWL und VWL 2016: 6 LP, Modul: "Statistical Programming Languages"

StO/PO MA 2016: 6 LP, Modul: "Statistical Programming Languages"

StO/PO MEMS 2016: 6 LP, Modul: "Statistical Programming Languages", Major: Quantitative Methods

Prüfung:

Term paper

## 7010321 Statistical Inference (englisch)

4 SWS

VL/UE

Do

10-12

wöch. (1)

SPA 1, 22

J. Feeser,

G. Keilbar

Mo

12-14

wöch. (2)

SPA 1, 125

J. Feeser,

G. Keilbar

1) findet ab 16.10.2025 statt ; Vorlesung

2) findet ab 20.10.2025 statt ; Übung

Moodle-Link:

<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

The students learn to understand the foundations and general properties of likelihood-based statistical inference and the Bayesian approach to statistical learning including the implementation of these approaches in statistical software using appropriate numerical procedures. Topics: likelihood function and likelihood principles, maximum likelihood estimators and their properties, numerical procedures for maximum likelihood estimation, likelihood-based tests and confidence intervals (derived from Wald, score, and likelihood ratio statistics), Bootstrap, Bayes theorem, Bayes estimators and their properties, Bayesian credible intervals, prior choices, computational approaches for Bayesian inference, model choice.

Organisatorisches:

StO/PO BA BWL und VWL 2016: 6 LP, Modul "Statistical Inference I"

StO/PO MA 2016: 6 LP, Modul: "Statistical Inference I"

StO/PO MEMS 2016: 6 LP, Modul: "Statistical Inference I", Major: Quantitative Methods

Prüfung:

Written exam (90 min)

## 7010324 Research Seminar in Statistics (englisch)

2 SWS

SE

Do

14-16

wöch.

SPA 1, 203

G. Keilbar

Moodle-Link:

<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

### Topic: Statistics of high-dimensional data

The purpose of this seminar is to familiarise students with fundamental topics of high-dimensional statistics. Topics covered in the course include high-dimensional inference and testing, linear regression in the  $p > n$  case, semiparametric inference, and doubly-robust machine learning methods for causal inference. A prerequisite for the seminar is a good understanding of fundamental statistical concepts (e.g., participation in Econometric methods, Multivariate statistical analysis or similar classes).

Organizational matters: Max. 20 participants.

The registration for the seminar will take place in the first week of the semester. If the maximum number of participants is exceeded, participation will be decided according to the rules of the HU ZSP (lottery).

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Research Seminar in Statistics"

StO/PO MEMS 2016: 6 LP, Modul: "Research Seminar in Statistics", Major: Quantitative Methods

Prüfung:

Portfolio exam (25.000 ZoL or digital equivalent)

## Fachlicher Wahlpflichtbereich - Vertiefungsgebiet Ökonometrie

### 701034 Time Series Analysis (englisch)

4 SWS

VL/UE

Do  
Fr

16-18  
08-10

wöch.  
wöch.

SPA 1, 21B  
SPA 1, 21B

G. Uhrin  
G. Uhrin

This course offers a modern introduction to the broad and dynamic field of time series analysis, with a focus on applications in macroeconometrics and financial econometrics. It balances theoretical foundations with practical tools and applications, providing students with a comprehensive understanding of key methodologies.

In the first part of the course, we focus on the most fundamental class of time series models: the ARMA model. Students will learn how to specify, estimate, diagnose, and forecast using ARMA models. We also address the crucial topic of stationarity, including methods for handling trends, seasonality, and unit roots.

The second part of the course expands to multivariate time series models, particularly the VARMA framework. We explore cointegration analysis and modern approaches to estimating Structural VARs and local projections. The course also introduces State Space Models, covering their estimation via the Kalman filter and modern Bayesian filtering and smoothing techniques.

We then turn to the challenges of high-dimensional time series modeling, comparing sparse models (regularization techniques) with dense models such as dynamic factor models. Finally, we delve into key models used in financial econometrics, including univariate GARCH models and multivariate copula-based models.

Literatur:

Linton, Oliver: Time Series for Economics and Finance. Cambridge: Cambridge University Press; 2024.

Kilian, Lutz and Lütkepohl, Helmut: Structural Vector Autoregressive Analysis. Cambridge University Press; 2017.

Särkkä, Simo and Svensson, Lennart: Bayesian Filtering and Smoothing. 2nd ed. Cambridge University Press; 2023.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Time Series Analysis"

StO/PO MEMS 2016: 6 LP, Modul: "Time Series Analysis", Major: Quantitative Methods

Prüfung:

Written exam (90 min)

### 701038 Econometric Projects (englisch)

2 SWS

SE

Fr

16-18

wöch.

SPA 1, 22

G. Ahlfeldt

The aim of the course is to introduce students to the process of idea creation and evaluation in quantitative research. The course will introduce the key criteria for research projects: originality, relevance, and rigor. Students will engage with early-stage research projects from researchers at different career stages, experience the process of providing professional feedback on research ideas, and practice assessing these projects against the above key criteria. Based on this experience, students will develop their own independent research and prepare a proposal for a research project that satisfies the key criteria.

This course integrates students into an interactive academic environment that mirrors real-world research practice. It is designed to bridge the gap between academic teaching and research and help with the transition from absorption of knowledge to the generation of knowledge. As such, the course represents a natural preparation for writing a Bachelor's or Master's thesis.

Much of the research presented and discussed in the seminar will be related to *quantitative spatial economics* (see [www.bqse.de](http://www.bqse.de) for an overview of related activities). However, students are welcome to develop research proposals in any area of applied econometrics.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Econometric Projects"

StO/PO MEMS 2016: 6 LP, Modul: "Econometric Projects", Major: Quantitative Methods

Prüfung:

Term paper

### 7010413 Applied Econometrics in Stata (englisch)

2 SWS

SE

Di

08-10

wöch.

SPA 1, 026

S. Waights

In this course you will develop a practical understanding of the key methods of causal inference used in modern applied microeconomics such as difference-in-difference, instrumental variables, and regression discontinuity designs, and how to apply these methods in Stata. The course will also show you how to assess the validity of each method, e.g. how to show parallel trends for a DD, or how to provide the first stage F-stat for an IV. The course will be assessed by a short term paper where you will put what you have learned into practice by carrying out a small applied research project. The course will have a workshop element for some of the last sessions, where you can work on the term paper, and/or other projects such as a dissertation, and I will come round and provide help with specific problems. There are no pre-requirements for the course, and there will be an introduction to using Stata. However, an interest in applied microeconomics as well as a little experience using statistical packages or basic programming may be helpful. *What won't be covered:* we will not cover time series econometrics or any theoretical econometrics. We won't look at any other statistical packages e.g. R.

To register, students should send an email to Dr. Sevrin Waights ( [sevrin.waights@hu-berlin.de](mailto:sevrin.waights@hu-berlin.de) ) by October 7, 2025.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Selected Topics in Econometrics"

StO/PO MEMS 2016: 6 LP, Modul: "Selected Topics in Econometrics", Major: Quantitative Methods

Prüfung:  
Term paper

## Fachlicher Wahlpflichtbereich - Vertiefungsgebiet Angewandte Mikroökonomie und quantitative Wirtschaftsforschung

### 70 953 Empirical Labor Economics (englisch)

4 SWS  
VL/UE

Mi

12-14

wöch. (1)

SPA 1, 125

A. Spitz-Oener,  
S. Waights

Mo

14-16

wöch. (2)

SPA 1, 22

A. Spitz-Oener,  
S. Waights

1) findet ab 15.10.2025 statt  
2) findet ab 20.10.2025 statt

This course provides an overview on the economic analysis of labor markets. The emphasis is on applied microeconomics and empirical analysis. Topics to be covered include: labor supply and demand, human capital, education and training, changes in the wages structure and inequality, biased technological change and returns to skills, organizational change and skill demand, the closing gender gap. The introduction of topics will be on textbook level, but the focus will be on the discussion of empirical implementation strategies used in recent publications.

Acquaintance of intermediate microeconomics or labor economics and econometrics is highly recommended.

Literatur:

R. Ehrenberg and R. Smith, 2003, Modern Labor Economics;

P. Cahuc and A. Zylberberg, 2004, Labor Economics;

+ selected journal articles

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Empirical Labor Economics"

StO/PO MEMS 2016: 6 LP, Modul: "Empirical Labor Economics", Major: Macroeconomics

Prüfung:

Written exam (90 min)

### 707922 Business Analytics and Data Science (englisch)

2 SWS  
VL

Do

10-12

wöch.

SPA 1, 202

S. Lessmann

"Data is the new oil..."

You might have heard this saying or a similar phrase before. Big Data, Analytics, Data Science, Artificial Intelligence, Machine Learning, ... many 'colorful' terms refer to the increasing use of analytical models that aim at extracting insight from the vast amounts of data that the digital society is producing.

The module Business Analytics and Data Science (BADS) is concerned with theories, concepts, and practices to support decision-making by means of formal, data-driven methods. We will revisit different forms of model-based decision support, examine the standard workflow of modern data analysis, and discuss a broad set of models for descriptive and predictive analytics. Predictive analytics is the main focus of the course. Many corporate use cases of analytics and data science involve predicting some future state or behavior, for example, how customers will respond to certain marketing stimuli. We will introduce statistical principles of learning from data and cover several common prediction methods, ranging from established industry workhorses like logistic regression to state-of-the-art machine learning algorithms such as gradient boosting. Subsequently, we will dive into specific tasks in the predictive modeling pipeline such as e.g., feature selection or remedies to the class imbalance problem. Given a variety of specialized modeling tasks and challenges, we will focus on topics with high relevance to managerial decision-making including cost-sensitive learning and model explainability (i.e., XAI).

The module consists of a lecture and a tutorial session.

The lecture introduces relevant concepts and provides room for discussion. The goal of the tutorial is to empower students to develop state-of-the-art analytical models using contemporary programming libraries for data science. Specifically, we will use the Python programming language. Students receive demos on how to implement specific algorithms from scratch and work with real-world data to solve common modeling tasks themselves.

In summary, the module pursues the following learning objectives:

- Students are familiar with the three branches of descriptive, predictive, and prescriptive analytics and appreciate the relationships between these streams.
- Given some data, students are able to select appropriate techniques to summarize and visualize the data to maximize managerial insight.
- Students understand the potential and also limitations of predictive analytics to aid decision-making. Given a decision task, they can discuss the relative merits and demerits of alternative algorithms and recommend a suitable prediction method.
- Students are familiar with Python programming and standard Python libraries for data handling and machine learning. Using these tools, they can develop basic and advanced prediction models and assess their accuracy in a statistically sound manner.

It is not strictly necessary that students join the course with prior experience in computer programming. We reserve a little bit of the tutorial to introduce programming principles and the Python programming language. That said, high and continuous engagement with the module in general and the tutorial in particular including ample time for self-study is expected to ensure the completion of our ambitious learning program. Students who wish to prepare for the course are invited to complete some of the many excellent tutorials on Python programming. A simple web search for "Python programming introduction" produces tons of results. The resources at Python.org also provide an excellent starting point.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Business Analytics and Data Science"

Prüfung:

Written exam (90 min)

**707922 Business Analytics and Data Science (englisch)**  
2 SWS  
UE Do 14-16 wöch. SPA 1, 202 S. Lessmann

**707922 Business Analytics and Data Science (englisch)**  
2 SWS  
TU Di 12-14 wöch. (1) SPA 1, 22 G. Velez  
1) findet ab 21.10.2025 statt

Optional additional tutorial.

**70 709 Advanced Marketing Modeling (englisch)**  
4 SWS  
VL/UE Mi 12-14 wöch. SPA 1, 22 D. Klapper  
Do 16-18 wöch. SPA 1, 22 D. Klapper

Evaluating marketing decisions and developing goal-oriented marketing strategies, e.g. maximizing firm profits, depend on the measurement of causal relationships between firms' objectives and marketing activities. In this course, we discuss in depth advanced methods to empirically determine the causal relationship between marketing activities and firms' objectives. In exercise courses students learn how to apply these methods to real data. Special attention is given to modeling the effects of marketing on sales and market share data. In this course we also focus on discrete choice models for individual purchase data and aggregate sales data. Successful participation in this class will enable students to quantify the impact of marketing on key performance measures and to evaluate the success of marketing activities.

Course Prerequisite:

Successful participation of "Applied Econometrics" or an equivalent course.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Advanced Marketing Modeling"

StO/PO MEMS 2016: 6 LP, Modul: "Advanced Marketing Modeling", Major: Quantitative Management Science

Prüfung:

Portfolio exam: 3 assignments

1. assignment: learn and understand how to use the statistical package R for data preparation and data analysis (non-graded)
2. assignment: learn and understand how to estimate price elasticities and promotional uplifts with log-log-models applying modern econometric tools, make use of modern statistical software packages and learn how to document and interpret the estimation results carefully.
3. assignment: learn and understand how to estimate parameters of an aggregate logit demand models using of modern statistical software packages and learn how to document and interpret the results from these models carefully.

The final grade will be given for the portfolio of all three assignments.

**Exam registration and deregistration via AGNES until November 10, 2025. Submission of first assignment: November 19, 2025.**

**701038 Econometric Projects (englisch)**  
2 SWS  
SE Fr 16-18 wöch. SPA 1, 22 G. Ahlfeldt  
*detaillierte Beschreibung siehe S. 6*

**7010413 Applied Econometrics in Stata (englisch)**  
2 SWS  
SE Di 08-10 wöch. SPA 1, 026 S. Waights  
*detaillierte Beschreibung siehe S. 6*

## Fachlicher Wahlpflichtbereich - Vertiefungsgebiet Data Science

**707922 Business Analytics and Data Science (englisch)**  
2 SWS  
VL Do 10-12 wöch. SPA 1, 202 S. Lessmann  
*detaillierte Beschreibung siehe S. 7*

**707922 Business Analytics and Data Science (englisch)**  
2 SWS  
UE Do 14-16 wöch. SPA 1, 202 S. Lessmann  
*detaillierte Beschreibung siehe S. 8*



**707922 Business Analytics and Data Science (englisch)**  
 2 SWS  
 TU Di 12-14 wöch. (1) SPA 1, 22 G. Velez  
 1) findet ab 21.10.2025 statt  
*detaillierte Beschreibung siehe S. 8*

**7010332 Research Seminar in Data Science (englisch)**  
 2 SWS  
 SE Di 16-18 wöch. SPA 1, 21B K. Reluga

Moodle-Link:  
<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

**Topic: Learning from Incomplete Data: Causal Inference, Semi-Supervised Learning, and Beyond**

Description of the contents: This seminar examines how statistical and machine learning methods tackle the challenge of missing and partially observed data. We will start by introducing key concepts of missingness, using examples from real-world applications such as survey nonresponse and unlabelled data. Building on this, we will explore how causal inference and semi-supervised learning can be understood as special cases of learning under missing data. In the following sessions, students will present and discuss recent research papers on imputation, causal inference with missing data, and semi-supervised learning, followed by group discussions. Toward the end of the seminar, each student will submit a short, paper-style report based on the research paper they presented. This report will be formally assessed.

Recommended prior lectures or prior knowledge: Participants should be familiar with core concepts in probability and statistical inference (e.g. Statistical Inference or equivalent). Prior coursework in computational statistics, econometrics, or machine learning is helpful but not required.

Part of the seminar is an ungraded presentation.

Organizational matters: Max. 20 participants. Registration in first session. If there are more registrations than places, the decision will be made by lot.

Recommended prior lectures:

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Research Seminar in Data Science"

StO/PO MEMS 2016: 6 LP, Modul: "Research Seminar in Data Science", Major: Quantitative Methods

Prüfung:

Term paper

## Fachlicher Wahlpflichtbereich - Frei wählbarer Bereich

Wählbar sind weitere Module aus den Vertiefungsgebieten sowie Module aus dem Fachlichen Wahlpflichtbereich des Masterstudiengangs Volkswirtschaftslehre. Werden in den Vertiefungsgebieten mehr als 15 LP absolviert, reduziert sich der frei wählbare Fachliche Wahlpflichtbereich entsprechend.

**3314465 Maßtheorie**  
 2 SWS  
 VL Di 10-12 wöch. (1) SPA 1, 21A J. Bielagk  
 1) Raum an der WiWi-Fak

**33144651 Maßtheorie**  
 2 SWS  
 UE Di 12-14 wöch. (1) SPA 1, 21A J. Bielagk  
 1) Raum an der WiWi-Fak

**7010333 Blockchains, Crypto Currencies, Network Analytics (englisch)**  
 2 SWS  
 SE Mo 16-18 wöch. (1) SPA 1, 22 W. Härdle  
 1) findet ab 20.10.2025 statt

Moodle-Link:  
<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

Blockchain and other distributed ledger technologies (DLT) have defined a transformative era by ensuring data security and enabling traceable transfers. Over recent years, digital currencies or cryptocurrencies (cryptos) have transitioned from digital novelties to trillion-dollar technologies, poised to reshape the global financial system. In particular, Central Bank Digital Currencies (CBDCs) have surged to prominence, sparking discussions and controversies. The Economist said, "Divide the Cryptocurrency Sheep from the Blockchain Goats." There is a widespread tendency to overlook the functionalities and capabilities of the underlying blockchain, while society often places a strong emphasis on technology hype. In fact, numerous industrial instances showcase successful empowerment through the adoption of emerging technologies, thereby advancing their markets. As one pillar of the Fourth Industrial Revolution, blockchain technology is catalysing a profound transformation across industries. Its global impact is evident as it furnishes a secure and tamper-proof mechanism for recording and tracking digital transactions. This course provides a comprehensive introduction to blockchain technology, exploring its fundamental concepts and applications through the lenses of economics and statistics.

Recommended requirements: DEDA, Statistics of Financial Markets, MVA Course

Part of the seminar is an ungraded presentation.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Selected Topics in Quantitative Methods"

StO/PO MEMS 2016: 6 LP, Modul: "Selected Topics in Quantitative Methods", Major: Quantitative Methods

Prüfung:

Portfolio Exam:

Creation of two Courselets

## **7010928 Economic Change and Social Cohesion (ca. 1850-1930) (englisch)**

2 SWS

SE

Di

16-18

wöch.

DOR 24, 1.404

F. Kersting,  
A. Nützenadel

This seminar explores how economic and political transformations—such as globalization, technological change, welfare reform, or migration—affect social cohesion. We examine key theoretical perspectives and recent empirical studies to understand the mechanisms through which change influences social cohesion along various dimensions. Students will apply these insights by conducting their own research projects, each focusing on a specific case study of their choice.

While the course does not require advanced skills in statistics or economics, students of history are expected to read and discuss research papers from economics and other social sciences. Students from economics, meanwhile, will engage with methods of historical research and source/data collection. The first part of the seminar (weeks 1–7) is dedicated to discussing methodological and theoretical issues, while the second part (weeks 8–15) is focusing on present historical case studies. Research groups will consist of students from both History and Economics to encourage interdisciplinarity.

A component of the seminar is an ungraded presentation.

Max. 20 participants.

Application: Please send a mail to Felix Kersting (f.kersting@hu-berlin.de) indicating also the program you study. If there are more applicants than spots, we will draw a lottery in advance and let you know about the result.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Economic History"

StO/PO MEMS 2016: 6 LP, Modul: "Economic History", Major: Macroeconomics

Prüfung:

Term paper

## **70 777 Seminar Information Systems (englisch)**

2 SWS

SE

Mi

12-14

wöch.

SPA 1, 21A

G. Velez,  
A. Zharova

The module targets experienced students with a strong interest in machine learning and artificial intelligence (ML/AI). Working in a group with peer students, you will research a specific topic and share your findings with other seminar participants in the form of a presentation. Each team will further prepare a seminar thesis; for example in the form of a replicable research paper (RRP). Seminar topics vary from year to year and always aim at extending your knowledge of and experience with advanced ML/AI methodology. The seminar is also designed to ready you for writing a master dissertation at the Chair of IS. Specifically, we guarantee each student who successfully completes the seminar an opportunity to write their MSc. thesis at the Chair of IS.

The seminar targets students in their third study semester. You should have completed Business Analytics and Data Science ( **BADS** ) and Deep Learning for Text Analytics ( **DELTA** ) prior to taking the seminar. Specifically, we expect a solid understanding of (deep) machine learning and data science as well as proficiency in Python from every participant. These competencies can be acquired in the above modules but also elsewhere. Therefore, completion of BADS and DELTA is recommended but not a mandatory requirement to participate in the seminar. Completion of other modules in the scope of computational statistics, econometrics, and machine learning prior to attending the seminar is useful but not a prerequisite.

Part of the seminar: Ungraded presentation of the term paper and discussion.

Audience: master students in the 3rd semester (not suitable for students in the 1st semester)

Participation limit: 32

Registration for the seminar takes place online via AGNES till October 08, 2025.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Seminar Information Systems"

StO/PO MEMS 2016: 6 LP, Modul: "Seminar Information Systems", Major: Quantitative Management Science

Prüfung:

Portfolio:

7/9 Homework + 1 Presentation

## **709941 Topics in Advanced Information Economics (englisch)**

4 SWS

VL/UE

Do

10-14

wöch.

SPA 1, 23

W. Lefez,  
D. Ravindran

This lecture covers the literature on information economics including: communication, information design, mechanism design, social learning, and experimentation. Exercises related to content from lecture, variants of models studied in lecture, discussion. Learning objectives: The students have knowledge of the core models in theoretical information economics and an understanding of the current state of research in the field. They are able to apply methods and solution concepts from microeconomic theory to situations with asymmetric information: e.g. games of communication, social learning, experimentation, and the design of information and mechanisms.

Special working task: presentation, 10-30 min (not graded).

Recommended module or comparable previous knowledge: "Theory of Incentives", "Market Design" or comparable courses.

Organisatorisches:

StO/PO MA BWL und VWL 2016: 6 LP, Modul: "Topics in Advanced Information Economics"

StO/PO MA MEMS 2016: 6 LP, Modul: "Topics in Advanced Information Economics", Major: Microeconomics

Prüfung:  
Written exam (90 min)

## 709943 European Energy Policy (englisch)

2 SWS

SE

Fr

08:30-10:00

wöch.

SPA 1, 125

G. Zachmann

Electricity is set to become the dominant energy carrier in Europe. The corresponding sector is transitioning fast - entailing very specific economics questions – such as market power, cross-border trading, externality pricing, risk mitigation. The seminar provides an introduction to key issues in European energy policy – focusing on the electricity sector. In the seminar, specific policy challenges are introduced, and corresponding economics questions are identified. In assignments and presentations students employ (primarily empirical) microeconomic analysis methods to specific problems. Several assignments require some command of mathematical programming (e.g., Python or R).

1. Organisation of the Seminar (distribution of topics/dates for presentation, commitment list, grading system) + Overview of European electricity sector 1: the regulatory basics
2. Overview of European electricity sectors 2: main actors
  - Homework: Market power in generation [calculating the HHI: data from openinfrastructure-maps]
3. Overview of European electricity sectors 3: organization of cross-border trade
  - Homework: Law of one price [scatterplot price-differential vs. electricity flows]
4. Challenges of the Energy Transition 1: the electricity supply side
  - Homework: Optimal dispatch for different generation mix
5. Challenges of the Energy Transition 2: the electricity demand side
  - Homework: Estimating demand elasticity [data: EnergyCharts]
6. Challenges of the Energy Transition 3: electricity grids
  - Homework: European value added [national vs. EU residual peak loads; data: ERRa]
7. Challenges of the Energy Transition 4: electricity storage
  - Homework: Valuating storages [Least Squares Monte Carlo; data electricity price series from SMARD]
8. Electricity Markt Design 1: Short term markets and market power
  - Welfare loss
9. Electricity Markt Design 2: investment signals
  - Homework: Payouts of different contract-mix [CfDs for Ukraine: data from GDU]
10. European emission markets and their impact on the energy sector
  - Homework: Fuel switching based on carbon prices [data: prices from ember]
11. Final Session: Energy Security

Preconditions: Recommended is a command of mathematical programming (e.g., Python and/or R).

Participation limit: 24

Registration for the seminar takes place online **via AGNES** till October 08, 2025.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Topics in Microeconomics"

StO/PO MEMS 2016: 6 LP, Modul: "Topics in Microeconomics", Major: Microeconomics

Prüfung:

**Portfolio:** Homework assignments + Presentation

## Studienabschluss-Seminare (ohne LP)

### 701020 Privatissimum Statistik (deutsch-englisch)

4 SWS

SE

Di

14-18

wöch.

S. Greven,

G. Keilbar

Moodle-Link:

<https://moodle.hu-berlin.de/course/view.php?id=90845#section-3>

The students learn about advanced topics in statistics. Topics are the review and discussion of statistical research results as well as current bachelor and master theses at the Chair of Statistics.

**Location:** Institute for Statistics, Library

A component of the seminar is an ungraded presentation.

Registration in the first meeting. No participation limit.

Organisatorisches:

StO/PO MA 2016: 6 LP, Modul: "Privatissimum"

StO/PO MEMS 2016: 6 LP, Modul: "Privatissimum", Major: Quantitative Methods

Prüfung:

Oral exam (45 min)

### 709026 Thesis Seminar on Topics of Migration Economics (englisch)

2 SWS

SE

Do

16-18

wöch.

SPA 1, 342

S. Sardoschau

This seminar provides both bachelor and master students with a comprehensive platform to author an empirical thesis centered on applied micro issues. Enrolled students will gain in-depth knowledge and practical experience in scientific writing, encompassing the acquisition of relevant data and the application of empirical methodologies. The course emphasizes the development of skills

necessary for effectively structuring research papers and presenting findings. Participants are required to engage in empirical analysis, critically review pertinent literature and data sources, and become well-versed in scientific writing. Additionally, the program includes two opportunities for students to present and critique their work. While the seminar generally conducts presentations in English, bachelor students have the option to present in German, subject to prior approval from the lecturer. Students should register by October 7th 2025 with Sulin Sardoschau directly: [sulin.sardoschau@hu-berlin.de](mailto:sulin.sardoschau@hu-berlin.de). Participation in this seminar is required for those writing a thesis with Prof. Sardoschau in 2025.

Organisatorisches:

Keine Leistungspunkte / no credit points.

### **709030 Studienabschlusssseminar Ökonometrie (englisch)**

2 SWS

CO

Mi

12-14

wöch.

SPA 1, 140

G. Ahlfeldt

Discussion of Master and Bachelor theses.

Organisatorisches:

Keine Leistungspunkte / no credit points.

### **709031 Doktorand:innenseminar Econometrics (englisch)**

2 SWS

CO

Mi

10-12

wöch.

SPA 1, 140

G. Ahlfeldt

Organisatorisches:

Keine Leistungspunkte / no credit points.

### **709048 Seminar zur Präsentation der Abschlussarbeiten in Wirtschaftsinformatik**

2 SWS

FS

Do

16-18

wöch.

SPA 1, 338

G. Velev,  
A. Zharova

Präsentationen der Abschlussarbeiten und Zwischenberichte, Dissertationen

Organisatorisches:

Keine Leistungspunkte / no credit points.

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## Gebäudeverzeichnis

Kürzel	Zugang	Straße / Ort	Objektbezeichnung
DOR 24		Dorotheenstraße 24	Doro24 Universitätsgebäude am Hegelplatz
SPA 1		Spandauer Straße 1	Spand1 Institutsgebäude

## Veranstaltungsartenverzeichnis

CO	Kolloquium
FS	Forschungsseminar
SE	Seminar
TU	Tutorium
UE	Übung
VL	Vorlesung
VL/UE	Vorlesung/Übung