Amtliches Mitteilungsblatt



Wirtschaftswissenschaftliche Fakultät

Fachspezifische Studien- und Prüfungsordnung für den Masterstudiengang Volkswirtschaftslehre

Überfachlicher Wahlpflichtbereich für andere Masterstudiengänge

Herausgeber:

Die Präsidentin der Humboldt-Universität zu Berlin Unter den Linden 6, 10099 Berlin

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Satz und Vertrieb:

Stabsstelle Presse- und Öffentlichkeitsarbeit

25. Jahrgang/17. August 2016

Fachspezifische Studienordnung für den Masterstudiengang "Volkswirtschaftslehre"

Gemäß § 17 Abs. 1 Ziffer 3 der Verfassung der Humboldt-Universität zu Berlin in der Fassung vom 24. Oktober 2013 (Amtliches Mitteilungsblatt der Humboldt-Universität zu Berlin Nr. 47/2013) hat der Fakultätsrat der Wirtschaftswissenschaftlichen Fakultät am 25. Mai 2016 die folgende Studienordnung erlassen*:

- Anwendungsbereich
- Beginn des Studiums
- Ziele des Studiums 83
- Module des Studiums
- Module für den überfachlichen Wahlpflichtbereich anderer Masterstudiengänge
- In-Kraft-Treten

Anlage 1: Modulbeschreibungen

Anlage 2: Idealtypischer Studienverlaufsplan

Anwendungsbereich

Diese Studienordnung enthält die fachspezifischen Regelungen für den Masterstudiengang Volkswirtschaftslehre. Sie gilt in Verbindung mit der fachspezifischen Prüfungsordnung für den Masterstudiengang Volkswirtschaftslehre und der Fächerübergreifenden Satzung zur Regelung von Zulassung, Studium und Prüfung (ZSP-HU) in der jeweils geltenden Fassung.

Beginn des Studiums

Das Studium kann zum Wintersemester aufgenommen werden.

§ 3 Ziele des Studiums

(1) Ziel des Masterstudiums als zweitem berufsqualifizierendem Abschluss für das Gebiet der Volkswirtschaftslehre ist es, auf eine forschungsorientierte quantitativ-analytische Tätigkeit im volkswirtschaftlichen Umfeld vorzubereiten bzw. die Basis für eine ebenso ausgerichtete Promotion zu legen.

Die Ziele und Inhalte des Studiums sind:

- Die Vermittlung fortgeschrittener fachlicher Kenntnisse, Fähigkeiten und Methoden in der Volkswirtschaftslehre mit dem Ziel, verantwortliche Aufgaben zu übernehmen und zur Lösung komplexer wirtschaftlicher Probleme beizutragen.
- Ein forschungs- und anwendungsorientiertes Entwickeln eigener Ideen, wobei hierfür die
- Vermittlung eines detaillierten und kritischen

- Verständnisses des neuesten Wissensstands in ausgewählten Spezialbereichen der Volkswirtschaftslehre die Grundlage darstellt.
- Die Befähigung der Studierenden, wissenschaftliche Methoden selbstständig anzuwenden, um komplexe wirtschaftliche Probleme zu erfassen, zu analysieren und wissenschaftlich fundierte Entscheidungen zu treffen sowie forschungs- oder anwendungsorientierte Projekte durchzuführen.
- Vermitteln von Informationen, Beweggründen und Schlussfolgerungen gegenüber Fachvertreterinnen und Fachvertretern und Laien; Internationaler Austausch auf wissenschaftlichem Niveau auch im interdisziplinärem Rahmen und Übernehmen herausgehobener Verantwortung.
- Die Befähigung zum lebenslangen Lernen und zur Teamarbeit.
- (2) Der erfolgreiche Abschluss des Studiums qualifiziert für eine berufliche Tätigkeit in Wirtschaft, Wissenschaft oder Verwaltung.

§ 4 Module des Studiums

Der Masterstudiengang Volkswirtschaftslehre beinhaltet folgende Module im Umfang von insgesamt 120 LP:

(a) Pflichtbereich (32 LP)

8.2: Econometric Methods (12 LP) Masterarbeit (20 LP)

(b) Fachlicher Wahlpflichtbereich (78 LP)

Bereich A: Mikro- und Makroökonomie Es sind Module im Umfang von 12 LP zu wählen. Folgende Module stehen zur Auswahl:

- 100: Introduction to Advanced Microeconomic Analysis (6 LP) oder
- 101: Advanced Microeconomic Theory I (PhDlevel) (6 LP)

und

- 102: Introduction to Advanced Macroeconomic Analysis (6 LP) oder
- 103: Advanced Macroeconomic Analysis I (PhDlevel) (6 LP)

Bereich B: Volkswirtschaftslehre Es sind Module im Umfang von 18 LP zu wählen. Folgende Module stehen zur Auswahl:

104: Advanced Monetary Economics (6 LP)

105: Advanced International Trade: Theory and Empirics (6 LP)

106: Competition Policy (6 LP)

107: Decision-Making under Uncertainty (6 LP)

Die Universitätsleitung hat die Studienordnung am 19. Juli 2016 bestätigt.

108: Empirical Labor Economics (6 LP)

109: Information Economics (6 LP)

110: Public Economics (6 LP)

111: Advanced Labor Economics (6 LP)

Bereich C: Volkswirtschaftslehre und Methodische Grundlagen

Es sind Module der Volkswirtschaftslehre im Umfang von 24 LP zu wählen. Werden im Bereich A mehr als 12 und/oder im Bereich B mehr als 18 LP erfolgreich absolviert, verringert sich die Anzahl der LP entsprechend.

Es ist mindestens ein Modul der Methodischen Grundlagen im Umfang von 6 LP zu wählen. Die Module sind dem Modulkatalog der Wirtschaftswissenschaftlichen Fakultät zu entnehmen.

Bereich D: Wirtschaftswissenschaft

Es sind Module im Umfang von 18 LP aus der Wirtschaftswissenschaftlichen Fakultät zu wählen. Werden in den Bereichen A bis C mehr als 60 LP erfolgreich nachgewiesen, verringert sich der Bereich D entsprechend.

Die Module sind dem Modulkatalog der Wirtschaftswissenschaftlichen Fakultät zu entnehmen.

Module mit Seminar:

Im fachlichen Wahlpflichtbereich sind mindestens zwei Module mit Seminar nachzuweisen, davon mindestens ein Seminar aus dem Angebot der Wirtschaftswissenschaftlichen Fakultät.

(c) Überfachlicher Wahlpflichtbereich (10 LP)

Im überfachlichen Wahlpflichtbereich sind Module aus den hierfür vorgesehenen Modulkatalogen anderer Fächer oder zentraler Einrichtungen im Umfang von insgesamt 10 LP nach freier Wahl zu absolvieren.

10 LP können für ein sechswöchiges Vollzeitpraktikum angerechnet werden. Das Praktikum muss innerhalb des Masterstudiums absolviert werden und ist mit einem Arbeitszeugnis und einem Praktikumsbericht nachzuweisen. Nicht angerechnet werden Sprachkurse in der jeweiligen Muttersprache bzw. Amtssprache des Heimatlandes, Deutschkurse für Ausländer und Englischkurse unter C2-Niveau GER.

§ 5 Module für den überfachlichen Wahlpflichtbereich anderer Masterstudiengänge

Für den überfachlichen Wahlpflichtbereich anderer Masterstudiengänge werden folgende Module angeboten:

ÜWP MA-VWL 1: Introduction to Advanced Microeconomic and Macroeconomic Analysis (10 LP)

§ 6 In-Kraft-Treten

- (1) Diese Studienordnung tritt am Tage nach ihrer Veröffentlichung im *Amtlichen Mitteilungsblatt der Humboldt-Universität zu Berlin* in Kraft.
- (2) Diese Studienordnung gilt für alle Studentinnen und Studenten, die ihr Studium nach dem In-Kraft-Treten dieser Studienordnung aufnehmen oder nach einem Hochschul-, Studiengangs- oder Studienfachwechsel fortsetzen.
- (3) Für Studentinnen und Studenten, die ihr Studium vor dem In-Kraft-Treten dieser Studienordnung aufgenommen oder nach einem Hochschul-, Studiengangs- oder Studienfachwechsel fortgesetzt haben, gilt die Studienordnung vom 5. Dezember 2005 (Amtliches Mitteilungsblatt der Humboldt-Universität zu Berlin Nr. 54/2005) übergangsweise fort. Alternativ können sie diese Studienordnung einschließlich der zugehörigen Prüfungsordnung wählen. Die Wahl muss schriftlich gegenüber dem Prüfungsbüro erklärt werden und ist unwiderruflich. Mit Ablauf des 30. September 2019 tritt die Studienordnung vom 5. Dezember 2005 außer Kraft. Das Studium wird dann auch von den in Satz 1 benannten Studentinnen und Studenten nach dieser Studienordnung fortgeführt. Bisherige Leistungen werden entsprechend § 110 ZSP-HU berücksichtigt.

Anlage 1: Modulbeschreibungen

Pflichtbereich

	Pflichtmodule	Credits	
8.2	Econometric Methods	12	

Fachlicher Wahlpflichtbereich

	Bereich A: Mikro- und Makroökonomie	Credits
100	Introduction to Advanced Microeconomic Analysis oder	6
101	Advanced Microeconomic Theory I (PhD-level)	
102	Introduction to Advanced Macroeconomic Analysis oder	6
103	Advanced Macroeconomic Analysis I (PhD-level)	

	Bereich B: Volkswirtschaftslehre	Credits
104	Advanced Monetary Economics	6
105	Advanced International Trade: Theory and Empirics	6
106	Competition Policy	6
107	Decision-Making under Uncertainty	6
108	Empirical Labor Economics	6
109	Information Economics	6
110	Public Economics	6
111	Advanced Labor Economics	6

(Nicht gewählte Wahlpflichtmodule aus Bereich A und B können wahlweise auch im Bereich C gewählt werden)

	Bereich C: Volkswirtschaftslehre und Methodische Grundlagen	Credits
	Bereich C: Volkswirtschaftslehre	
121	Advanced Macroeconomic Analysis II (PhD-level)	6
122	Topics in Macroeconomics	6
123	Topics in Labor Economics and Macroeconomics	6
130	European Economic History I	6
131	European Economic History II	6
132	Economic History	6
133	Spatial Economics	6
134	From Paul A. Samuelson to Elinor Ostrom - History of Economic Thought in the 20th Century	6
140	Selected Topics in Industrial Organization	6
150	Advanced Microeconomics	6
151	Behavioral Economics	6
152	Empirical Methods in Applied Microeconomics	6
153	Advanced Experimental Economics	6
154	Trust and Reputation	6
155	Advanced Microeconomic Theory II (PhD-level)	6
160	Theory of Incentives	6
161	Game Theory	6
162	Topics in Microeconomics	
170	Social Preferences	6
171	Seminar in Public Economics	6
172	Topics in Public Economics	6
180	Economic Growth	6
190	Emerging Markets	6
201	Selected Topics in Economics	6

	Bereich C: Methodische Grundlagen	Credits
8.1	Applied Econometrics	6
80	Time Series Analysis	6
81	Analysis of Panel Data	6
82	Microeconometrics	6
83	Advanced Econometrics	6
84	Estimation of Treatment Effects	6
85	Econometric Projects	6
86	Selected Topics in Econometrics	6
9	Multivariate Statistical Analysis	6
90	Statistical Programming Languages	6
91	Datenanalyse I	6
92	Datenanalyse II	6
93	Statistics of Financial Markets	6
94	Advanced Methods in Quantitative Finance	6
95	Selected Topics in Finance, Insurance and Mathematical Statistics	6
96	Multivariate Statistics and Non- and Semiparametric Modeling	6
97	Statistical Seminars	6
98	Selected Topics in History of Statistics	6
99	Privatissimum	6
202	Selected Topics in Quantitative Methods	6

Die Modulbeschreibungen folgender Wahlpflichtmodule sind der fachspezifischen Studienordnung für den Masterstudiengang Betriebswirtschaftslehre in der jeweils gültigen Fassung zu entnehmen:

	Bereich C: Methodische Grundlagen	Credits
7	Business Analytics and Data Science	6
70	Digital Marketing and Web Analytics	6
71	Seminar Information Systems	6
72	Applied Predictive Analytics	6
73	IT Security and Privacy	6

	Bereich D: Wirtschaftswissenschaft	Credits
	Accounting Courses	
1	Financial Accounting and Analysis	6
10	Accounting: Valuation	6
11	Accounting: Advanced Topics and Cases in Accounting	6
12	Accounting: Accounting Theory and Earnings Management	6
13	Accounting: Financial Accounting Research Group	6
14	Accounting: Master's Thesis Seminar Accounting	6
2	Grundzüge der Besteuerung	6
20	Umwandlung von Unternehmen	6
21	Steuerwirkungslehre	6
22	Internationale Unternehmensbesteuerung	6
23	Steuerliche Gewinnermittlung / Umsatzsteuer und Verfahrens- recht	
24	Master Tax Seminar	6
	Marketing	
3	Marketing Management	6
30	Customer Analytics and Customer Insights	6
31	Advanced Marketing Modeling	6
32	Seminar Marketing	6
	Management	
4	Organization and Management	6
40	Personnel Economics	6
41	Advanced Topics in Management	6
42	Incentives in Organizations	6

	Topics in Energy and Network Economics	
45	Financial Contracting	6
46	Network Based Energy Systems	6
47	Competition and Cooperation	6
	Entrepreneurship and Innovation	
5	Economics of Entrepreneurship	6
50	Entrepreneurial and Behavioral Decision Making	6
51	Design of Decision Experiments	6
52	Master Seminar on Entrepreneurship and Innovation	6
	Financial Economics	
6	Corporate Finance	6
60	Advanced Corporate Finance	6
61	Private Equity	6
62	Introduction to Financial Economics	6
63	Case Seminar Advanced Corporate Finance	12
64	Master Thesis Seminar Corporate Finance	6
65	Master Thesis Seminar Financial Economics	6
66.1	Advanced Financial Economics - Corporate Finance	6
66.2	Advanced Financial Economics – Asset Pricing	6
	Finance	
67	Finanzierungstheorie	6
68	Market Microstructure	6
69	Seminar Topics in Finance	6
200	Selected Topics in Business Administration	6

Überfachlicher Wahlpflichtbereich (üWP) für andere Masterstudiengänge

	üWP-Module	Credits
ÜWP MA-	Introduction to Advanced Microeconomic and Macroeconomic	10
VWL 1	Analysis	

Pflichtbereich

Modul 8.2: Econo	ometric Methods	Credits: 12	
nomic and statistic mation and inferer with the basic con- maximum likelihoo	a solid knowledge of the ecc cal assumptions. In particular ince in the linear regression m cepts of asymptotic theory are od and instrumental variable	r, they have a deep nodel and its extension and are able to apply e estimation. The st	gy including the fundamental role of eco understanding of the ingredients of esti ons with matrix algebra. They are familia them within the context of least squares udents are equipped with the necessar as to successfully address own research
	ic knowledge equivalent to m	odule "Introduction	to Econometrics" (Bachelor)
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Lecture Econometric Methods	4 SWS 180 hours 45 hours Attendance 135 hours Literature study and preparation	6 credits, participation	Linear regression model: least square estimation, optimality, hypothesis testing, confidence regions; Generalizations and applications of the linear model: selecting regressors, GLI estimation, heteroscedasticity and autocorrelation; Concepts of asymptotic theory and their application to OLS estimation tests and covariance estimation; Maximum likelihood estimation: basiconcepts and examples, asymptotic properties, likelihood-based testing numerical procedures; Instrumental variable estimation: motivation, asymptotic properties, I'based testing; Generalized Method of Moments: basiconcepts and applications
Exercise Econo- metric Methods	2 SWS 120 hours 25 hours Attendance 95 hours Literature study and preparation of course and special work- ing task	4 credits, participation and solving of 4 homework- exercises per term	Theoretical exercise questions; Empirical examples
Final exam	60 hours Written exam (150 min) and preparation	2 credits, pass	
Duration	☑ 1 semester ☐ 2 semester		
Start of module	⊠ winter term □ summer term		

Fachlicher Wahlpflichtbereich Bereich A: Mikro- und Makroökonomie

Modul 100: Intro	oduction to Advanced N	dicroeconomic Ana	alysis	Credits: 6
		-		omics: competitive markets, d bounded rationality.
	se theories to concrete ecor	nomic problems.		
Preconditions: none				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Introduction to Advanced Micro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	General Equilibrium; Partial Equilibri um; Externalities; Public goods; Im perfect Competition; Monopoly; Oli gopoly; Asymmetric Information; Ad verse Selection; Moral Hazard; Behav ioral Aspects	
Exercise Introduction to Advanced Micro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercises and model application	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	⊠ winter term	term		

Modul 101: Adva	Credits: 6			
Learning objectives The students under		onomic concepts and	tools on a very advanced level.	
Preconditions: none	2			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Advanced Microe- conomics Theory I (PhD-level)	4 SWS 60 hours 45 hours Attendance 15 hours Literature study and preparation	2 credits, participation	Theory of consumption and production optimal decision under uncertaint general equilibrium, matching, introduction to game theory	
Exercise Advanced Microe- conomics Theory I (PhD-level)	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation Exercises		
Final exam	60 hours Written exam (180 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	☑ winter term	☐ summer term		

Modul 102: Introd	s Credits: 6				
Learning objectives The students are ab		nic growth and dynam	nic stochastic general equilibrium for em		
pirical and theoretic	al analysis of macroeconon	nic issues.			
Preconditions: none					
Teaching format	Hours per week, workload in hours				
Lecture Introduction to Advanced Macro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Dynamic macroeconomic analys empirical and theoretical questions was be analysed		
Exercise Introduction to Advanced Macro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation Literature review, discussions, and tions			
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass			
Duration	☑ 1 semester	☐ 2 semester			
Start of module	⊠ winter term	☐ summer term			

Modul 103: Advan	Credits: 6			
	stand advanced methods o		nomic research questions, including intergeneral equilibrium models, and are able	
			e context of their own research.	
Preconditions: none				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Advanced Macro- economic Analysis I (PhD-level)	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Foundations of advanced macroeco- nomic analysis; empirical and theore cal questions will be analyzed	
Exercise Advanced Macro- economic Analysis I (PhD-level)	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature review, discussions, applic tions	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	⊠ winter term	□ summer term		

Fachlicher Wahlpflichtbereich Bereich B: Volkswirtschaftslehre

Modul 104: Adva	Credits: 6			
Learning objectives The students are a ysis.		ic general equilibrium	models for positive and normative anal-	
Preconditions: the	module "Introduction to Adv	vanced Macroeconomi	ic Analysis" is recommended.	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Advanced Mone- tary Economics	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	The lecture develops a stochastic dynamic general equilibrium model featuring monopolistic competition and sticky prices. Compared with the exposition in the course "Monetary Economics" more emphasis will be put on the technical aspects that one needs to understand in order to use this framework. We will also analyze some recent extensions of the baseline model that is at center stage in the course "Monetary Economics".	
Exercise Advanced Mone- tary Economics	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	The Exercise helps understand the material of the lecture in different ways. First, some additional derivations of theoretical and empirical results are provided. Second, applications of the theory are illustrated. Third, some aspects of the practical implementation of monetary policy are discussed.	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☐ 1 semester	2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 105: Adva	cs Credits: 6			
Learning objective	S:			
with the classic Ric		trade models, studer	de, both in theory and empirics. Starting its know the frontier of research including & Ottaviano (2008).	
Preconditions: bas	ics in both microeconomics	and macroeconomics		
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Advanced Inter- national Trade: Theory and Em- pirics	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Ricardian trade model, Heckscher- Ohlin trade model, Eaton-Kortum trade model, Melitz-Ottaviano trade model, economic policy, economic history, economic geography	
Exercise Advanced Inter- national Trade: Theory and Em- pirics	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation Discussion and empirical application theoretical concepts from the lection		
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 106: Comp	Credits: 6			
cuss issues in com	rstand the structure of elem		ustrial organization. They are able to disto develop simple models to address se-	
Preconditions: none	e			
Teaching format	Hours per week, workload in hours	Credits Topics, contents preconditions for granting		
Lecture Competition Poli- cy	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Neoclassical welfare theory; normative results of static (SCP, dynamic price competition, vertical restraints) and dynamic (patent races, endogenous growth theory) industrial organization theory.	
Exercise Competition Poli- cy	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation Practice of the theoretic analypolicy question with the help of examples.		
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 107: Deci	Credits: 6			
They analyze beha	amiliar with the most impo		omic decision-making under uncertainty. nknown probabilities, under probability-	
Preconditions: none	2			
Teaching format	Hours per week, workload in hours	Credits Topics, contents preconditions for granting		
Lecture Decision-Making under Uncertainty	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	The general model of choice under uncertainty; Expected utility; Probability weighting; Prospect Theory; Ambiguity preferences	
Exercise Decision-Making under Uncertainty	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation Exercises and applications		
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 108: Empirical Labor Economics Credits: 6 Learning objectives: The students have knowledge of the economic analysis of labor markets, in particular of their applied microeconomic and empirical analysis, with a focus on the identification of causal effects. They are acquainted with topics such as labor supply and demand, human capital, education and training, changes in the wages structure and inequality, immigration, biased technological change and returns to skills, as well as organizational change and skill demand. Preconditions: module "Econometric Methods", recommended "Advanced Econometrics" or "Microeconometrics", knowledge in Labor Economics. Teaching format Hours per week, Credits Topics, contents workload in hours preconditions for granting Lecture 2 SWS 2 credits, This course provides an overview on Applied Predictive the economic analysis of labor marparticipation Analytics I 60 hours kets. The emphasis is on applied mi-25 hours Attendance croeconomics and empirical analyses. 35 hours Literature study and preparation Lecture 2 SWS 2 credits, Topics to be covered include: Empirical Labor participation Instrumental variable methods, differ-Economics II 60 hours ences-in-differences, regression discontinuity design, labor supply and 25 hours Attendance demand, human capital/returns to 35 hours Literature study and preparation skills, education and training, changes in the wages structure and inequality, biased technological change and organizational change and skill demand, the closing gender pay gap, immigration Final exam 60 hours 2 credits, Written exam (90 min) pass and preparation Duration □ 1 semester 2 semester Start of module ☑ winter term summer term

Modul 109: Infor	Credits: 6			
	the effect of asymmetric in ucture that underlies an eco		ic markets. They know the crucial role of oply these ideas and concepts to concrete	
Preconditions: mod	lule "Introduction to Advanc	ed Microeconomic An	alysis"	
Teaching format	Hours per week, workload in hours	Credits Topics, contents preconditions for granting		
Lecture Information Eco- nomics	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Incomplete quality information (Lemons problem), Labour markets with asymmetric information (signaling, efficiency wages, equilibrium unemployment), Insurance markets with asymmetric information (screening), Credit markets with asymmetric information (rationing), Principal-Agent Problems	
Exercise Information Eco- nomics	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercises	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	☐ winter term	⊠ summer term		

Credits: 6 Modul 110: Public Economics Learning objectives: The students know key theoretical concepts of public economics and can explain the key reasons for government intervention regarding the provision of public goods, externalities, social policy and the aims of They can discuss important limitations of government intervention and know key results on taxation. They can assess the implications of recent research regarding extensions and empirical relevance of key theoretical concepts of public economics. Preconditions: module "Introduction to Advanced Microeconomic Analysis" or equivalent and Knowledge of elementary game theory Teaching formats Hours per week, Credits and pre-Topics, contents workload in hours conditions for granting Lecture 2 SWS 2 credits, Foundations of government interven-**Public Economics** participation tion; 60 hours Public goods; 25 hours presence Externalities; in class, Social policy; 35 hours preparation Taxation; and learning Recent research results Exercise 2 SWS 2 credits, Applied problems based on the lecture; **Public Economics** participation Discussion of further literature 60 hours 25 hours presence in class, 35 hours preparation and learning Final exam 60 hours 2 credits, Written exam (90 min) pass and preparation Duration □ 1 semester 2 semester Start of Module ☐ winter term

Modul 111: Advanced Labor Economics Credits: 6 Learning Objectives: Students gain a command of central theoretical frameworks for thinking about how labor markets function and how they deviate from the standard competitive paradigm. They are able to apply theory of labor economics and available empirical evidence to practical labor market contexts and understand the possibilities and limitations which can arise in the empirical verification of labor market theory using data. Preconditions: module "Introduction to Advanced Microeconomic Analysis" or "Advanced Microeconomics Theory I (PhD-level)" and module "Introduction to Advanced Macroeconomics Analysis" or "Advanced Macroeconomic Analysis I (PhD-level)" Teaching format Hours per week, work-Credits precondi-Topics, contents load in hours tions for granting Lecture 2 SWS 2 credits. Theoretical models of labor markets, Advanced Labor participation their applications and empirical imple-Economics 60 hours mentation; survey of literature 25 hours Attendance 35 hours Literature study and preparation Exercise 2 SWS 2 credits, Review of models and exercises Advanced Labor participation **Economics** 60 hours 25 hours Attendance 35 hours Literature study and preparation Final exam 60 hours 2 credits, Written exam (90 min) pass and preparation Duration □ 1 semester 2 semester Start of module ☐ winter term

Fachlicher Wahlpflichtbereich

Bereich C: Volkswirtschaftslehre und Methodische Grundlagen

Volkswirtschaftslehre

Modul 121: Advar	nced Macroeconomic Ana	Credits: 6		
dynamic stochastic finance, business c	ble to build on their know general equilibrium model ycle theory, and models w	s to study advanced	topics in mor	n, stochastic processes and netary macroeconomics and rn more advanced methods
	estimation and simulation. ule "Advanced Macroeconor	mic Analysis I (PhD-le	evel)"	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, con	tents
Lecture Advanced Macro- economic Analysis II (PhD-level)	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	preference and applica models; m and wage and time analysis, m frictions. More advar	ide asset pricing, advanced theory, dynamic contracts stions, growth models, OLG oney and models of price rigidities; economic policy consistency, applied VAR odels of labor markets with need tools of model solution ed and developed.
Exercise Advanced Macro- economic Analysis II (PhD-level)	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	In-depth re exercises	eview, literature review and
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester.	2 semester		
Start of module	□ winter term ⊠ summer term			

Modul 122: Topic	s in Macroeconomics		Credits: 6		
methods.	s: ble to address selected topics ither a lecture and exercise (
Preconditions: non	e				
Teaching format	Hours per week, workload in hours	Credits Topics, contents preconditions for granting		tents	
Lecture	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Lectures on current issues in macro conomics		
Exercise	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature re tions	eview, discussions, applica-	
Seminar I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Seminar on conomics	current issues in macroe-	
Seminar II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature retions	eview, discussions, applica-	
Final exam	60 hours Written exam (90 min) and preparation or term paper (45,000 ZoL) and preparation	2 credits, pass			
Duration	☑ 1 semester	2 semester			
Start of module	☑ winter term or	⊠ s	⊠ summer term		

Learning objectives	<u>s:</u>				
state-of-the-art qu	able to address selected top antitative methods. either a lecture and exercise				
Preconditions: non	e				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, con	tents	
Lecture	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Lectures on current issues in labor an macroeconomics		
Exercise	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature review, discussions, applications		
Seminar I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Seminar on macroecon	current issues in labor and omics	
Seminar II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, Literature review, discussions, appli tions		review, discussions, applica-	
Final exam	60 hours Written exam (90 min) and preparation or term paper (45,000 ZoL) and preparation	2 credits, pass			
Duration	☐ 1 semester	2 semester			
Start of module	⊠ winter term or ⊠ summer term				

Modul 130: Euro	pean Economic History I	Credits: 6		
Learning objective	<u>S:</u>			
stand the long-ter gain new insights i empirical methods and Germany and	m perspective and the role nto long-term development . Students have an impressi	of historical case stu and are able to apply on of the economic hi research in economic	the period 1800-1914. Students under dies for economic decision making. They their knowledge of economic theory and story of the world, in particular of Europe history. Students are able to devise own	
Preconditions: non	e			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture European Eco- nomic History I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	European Economic History 1800 - 1914	
Exercise European Eco- nomic History I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercise sessions	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	☑ winter term ☐ summer term			

Modul 131: Europ	pean Economic History II		Credits: 6	
Learning objectives	5:			
stand the long-teri gain new insights i empirical methods. and Germany and	the field of Economic History perspective and the role nto long-term development. Students have an impression know a variety of modern that and research designs for the	of historical case stu and are able to apply on of the economic hi research in economic	dies for econo their knowled story of the w	omic decision making. They dge of economic theory and orld, in particular of Europe
Preconditions: non	e			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture European Eco- nomic History II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	European E to now	conomic History 1914 – up
Exercise European Eco- nomic History II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercise se	ssions
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	☐ winter term ⊠ summer term			

Modul 132: Economic History Credits: 6 Learning objectives: The students have a long-term perspective and are able to understand the role of historical case studies for economic decision making. They gain new insights into long-run development and are able to apply their knowledge of economic theory and empirical methods. Students have an impression of particular aspects of economic history within the context of global, European and German developments. The students know modern research in economic history and are able to devise own research questions and research designs for their master's thesis. Preconditions: none Teaching format Hours per week, Credits Topics, contents workload in hours preconditions for granting Seminar 1 SWS 1 credit, The seminars cover key topics in Euro-**Economic History** Participation pean economic history, ranging from 30 hours methods of modern research in eco-15 hours Attendance nomic history, over economic crises to 15 hours Literature long-run economic developments, and study and preparation specific historical case-studies. The focus of the first part is on theoretical concepts. Seminar 1 SWS 2 credits. The focus of the first part is on empiri-Economic History Participation cal applications of the theoretical con-II 60 hours cepts from part 1. 15 hours Attendance Presentation (30 45 hours Literature min) study and preparation of course and special working task Final exam 90 hours 3 credits. Term paper (40,000 pass ZoL) and preparation Duration □ 1 semester 2 semester Start of module ☐ winter term Summer term

Credits: 6 Modul 133: Spatial Economics Learning objectives: The students know a variety of the vast literature on Spatial Economics. They are familiar with ideas developed by Von Thünen and Krugman leading to modern theories on the interaction between economics and geography. Students know models and empirics for topics such as international specialization, the clustering of industries, the spatial pattern of economic growth, and the relationship between core and periphery within economic regions. Preconditions: module "Introduction to Advanced Microeconomic Analysis" or "Advanced Microeconomics Theory I (PhD-level)" and module "Introduction to Advanced Macroeconomics Analysis" or "Advanced Macroeconomic Analysis I (PhD-level)" Teaching format Hours per week, Credits Topics, contents preconditions for workload in hours granting Seminar 1 SWS 1 credit, Core and periphery, increasing returns Spatial Economics participation to scale, transport costs, Law of one 30 hours price, clustering, specialization, theoretical concepts 15 hours Attendance 15 hours Literature study and preparation Seminar 1 SWS 2 credits, Core and periphery, increasing returns Spatial Economics Participation to scale, transport costs, law of one price, clustering, specialization, empir-60 hours 15 hours Attendance Presentation (30 ical applications 45 hours Literature min) study and preparation of course and special working task Final exam 90 hours 3 credits, Term paper (40,000 pass ZoL) and preparation Duration □ 1 semester 2 semester Start of module winter term ☐ summer term

Credits: 6 Modul 134: From Paul A. Samuelson to Elinor Ostrom - History of Economic Thought in the 20th Century Learning objectives: The students should learn to analyse, to understand and to interpret historical events and developments in the history of economic thought. They should learn to analyse publications on economics. The exceptional role of mathematics, the close connections between economic theories and mathematical methods and the limits of mathematics will be studied too. The aim of the seminar is to study classical papers on economics and to analyse them from a historical perspective. Active participation is desired; the seminar is for students who are interested in history of economics and mathematical economics. Preconditions: none Teaching format Hours per week, Credits Topics, contents preconditions for workload in hours granting Seminar I 1 SWS 1 credit, Serious reading of classical papers (book chapters or articles) on economparticipation 30 hours ics, written by economists and math-15 hours attendance ematicians, who were awarded with 15 hours literature study the Nobel Prize in Economics, i. e. the and preparation Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel; study of economic theories by investigating significant publications of some of the 76 Laureates between 1969 and 2015. The development of mathematical and statistical methods which became important tools, will be studied. Seminar II 1 SWS 2 credits, Serious reading on the background of participation the history of economics in general; on 60 hours presentation the history of the Nobel Foundation, its 15 hours attendance (30 min) Prizes, and the establishment of the 45 hours Sveriges Riksbank Prize in Economic literature study and Sciences in Memory of Alfred Nobel. preparation of course Reading on contributions to economic and special working task thought, by developing either economic theories or special methods for a better understanding of micro- and macroeconomics, or using mathematical methods and tools. Final exam 90 hours 3 credits, Term paper (45.000 pass ZoL) and preparation □ 1 semester Duration 2 semester

☐ summer term

Start of module

Modul 140: Select	ted Topics in Industrial O	rganization		Credits: 6
search topic in indu	stand the fundamental arguistrial organization. They are the selected topic.			
Preconditions: mod	ule " Introduction to Advanc	ed Microeconomics A	Analysis"	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, cont	tents
Lecture Selected Topics in Competition Poli- cy	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation of course and special work- ing task	1 credit, participation, written test (45 min)	The fundamental arguments of the selected topic are introduced. A writte exam (pass/fail) has to be taken in order to continue with the seminar.	
Seminar Selected Topics in Compe- tition Policy	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation of course and special work- ing task	2 credits, Participation, presentation (30 min)		of selected papers, guided a feasible extension of the erature.
Final exam	90 hours Term paper (30,000- 45,000 ZoL) and prepa- ration	3 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	⊠ winter term	☐ summer term		

Modul 150: Adva	nced Microeconomics	Credits: 6		
	amiliar with the leading the	oretical models in a si	ub-field of microeconomics and can apply	
Preconditions: non	ific economic context.			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Seminar I	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Depends on seminar topic	
Seminar II	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Depends on seminar topic	
Final exam	120 hours Term paper (30,000 ZoL) and preparation	4 credits, pass	1	
Duration	☐ 1 semester	2 semester		
Start of module	⊠ winter term	☐ summer term		

Modul 151: Beh	avioral Economics	Credits: 6		
Learning objective: The students are f opments in the lite	amiliar with the most impor	tant models of beha	vioral economics, including recent devel-	
Preconditions: mod	dule " Introduction to Advanc	ed Microeconomics A	Analysis"	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Seminar Behavioral Eco- nomics I	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Decision under uncertainty, mark power, strategic interaction, gar theory	
Seminar Behavioral Eco- nomics II	1 SWS 60 hours 15 hours Attendance 45 hours Literature study and preparation of course and special work- ing task	2 credits, participation presentation (25 min)	Asymmetric information, incentives, mechanism design, contract theory	
Final exam	90 hours Term paper (30,000 ZoL) and preparation	3 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 152: Empi	irical Methods in Applie	d Microeconomic	s	Credits: 6
Learning objectives The students are farecent development	amiliar with the most impor	tant empirical meth	ods in applied	d microeconomics, including
Preconditions: mod	ule "Introduction to Advance	ed Microeconomics Ar	nalysis"	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, con	tents
Seminar Empirical Methods in Applied Micro- economics I	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Microecono Applied Mic	metrics; roeconomics;
Seminar Empirical Methods in Applied Micro- economics II	1 SWS 60 hours 15 hours Attendance 45 hours Literature study and preparation of course and special work- ing task	2 credits, participation presentation (25 min)	Public Polic	у
Final exam	90 hours Term paper (30,000 ZoL) and preparation	3 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	⊠ winter term □ summer term			

Modul 153: Adv	Credits: 6			
Learning objectives The students are farecent developmen	amiliar with the most importa	ant methods and resu	ults in experimental economics, including	
Preconditions: mod	lule "Introduction to Advance	ed Microeconomics A	nalysis"	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Seminar Advanced Exper- imental Econom- ics I	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Economic experiments, social preferences, non-equilibrium beliefs, quanta response equilibrium, econometric estimation	
Seminar Advanced Exper- imental Econom- ics II	1 SWS 60 hours 15 hours Attendance 45 hours Literature study and preparation of course and special work- ing task	2 credits, participation presentation (25 min)	Exercises	
Final exam	90 hours Term paper (30,000 ZoL) and preparation	3 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	☑ winter term	☐ summer term		

Modul 154: Trus		Credits: 6		
Learning objectives The students are farecent development	miliar with the most importa	ant microeconomic a	nalyses of tru	st and reputation, including
Preconditions: mod	ule "Introduction to Advance	ed Microeconomic An	alysis" or "Ga	me Theory" [or equivalent].
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, con	tents
Seminar Trust and Reputa- tion I	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	asymmetric on the roles	f economic behavior under information with a focus s of and mechanisms behind eputation. Empirical application.
Seminar Trust and Reputa- tion II	1 SWS 60 hours 15 hours Attendance 45 hours Literature study and preparation of course and special work- ing task	2 credits, participation presentation (25 min)	Exercise	
Final exam	90 hours Term paper (30,000 ZoL) and preparation	3 credits, pass	•	
Duration	☑ 1 semester	1 semester		
Start of module	⊠ winter term □ summer term			

Modul 155: Adva	nced Microeconomic Theo	Credits: 6		
Learning objectives The students under		onomic concepts and	tools on a very advanced level.	
Preconditions: none	e			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Advanced Microe- conomic Analysis II (PhD-level) I	4 SWS 60 hours 45 hours Attendance 15 hours Literature study and preparation	2 credits, participation	Decision under uncertainty, mark power, strategic interaction, gam theory, asymmetric information, incer tives, mechanism design, contract the ory.	
Lecture Advanced Microe- conomic Analysis II (PhD-level) II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercises	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 160: The	Credits: 6			
	the main topics and mode		heory and asymmetric information. They selection and signaling. Furthermore they	
	eories and concept to concre			
Preconditions: mod	dule "Introduction to Advance	ed Microeconomic An	alysis"	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Theory of Incentives	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Adverse Selection, Revelation Principle, Solution Techniques, Ex-Post view Ex-Ante Contracting, Limited Liability Moral Hazard, First-Order-Approach Mixed Models of Adverse Selection and Moral Hazard, Dynamic Aspects in Incentive Theory	
Exercise Theory of Incen- tives	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercises and model application	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 161: Gan	Credits: 6			
Learning objective				
	w the main concepts of stra theory. They can apply these		ehavior. They know the various solution e economic problems.	
Preconditions: mod	dule "Introduction to Advanc	ed Microeconomics A	nalysis"	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Game Theory	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Normal-form games, extensive-form games, games with incomplete information, standard solution concepts and refinements	
Exercise Game Theory	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercises	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 162: Topics in Microeconomics Credits: 6 Learning objectives: The students are able to address selected topics in microeconomics using state-of-the-art quantitative methods. The students study applications of microeconomic techniques and analyze microeconomic problems in different fields of economics. Students choose either a lecture and exercise (with written exam) or seminar I and seminar II (with term paper). Preconditions: none Teaching format Credits Hours per week, Topics, contents preconditions for workload in hours granting Lecture 2 SWS 2 credits, Lectures on current issues in microeparticipation conomics 60 hours 25 hours Attendance 35 hours Literature study and preparation Exercise 2 SWS 2 credits, Literature review, discussions, applicaparticipation tions 60 hours 25 hours Attendance 35 hours Literature study and preparation Seminar I 2 credits, Seminar on current issues in microe-2 SWS participation conomics 60 hours 25 hours Attendance 35 hours Literature study and preparation Seminar II 2 SWS 2 credits, Literature review, discussions, applicaparticipation tions 60 hours 25 hours Attendance 35 hours Literature study and preparation Final exam 60 hours 2 credits, Written exam (90 min) pass and preparation term paper (45,000 ZoL) and preparation Duration □ 1 semester 2 semester Start of module

Credits: 6 Modul 170: Social Preferences Learning objectives: The students know key experimental evidence on social preferences and can apply the most important models of social preferences to explain key experimental results and know their limitations. They can contribute to the debate about the relevance of laboratory experiments on social preference and are able to explain the relevance of social preferences for economic theory and have an understanding how economic models can be extended to incorporate social preferences. Preconditions: module "Introduction to Advanced Microeconomic Analysis" or equivalent; Knowledge of elementary game theory; knowledge of statistical analysis will make it easier to follow the data analysis in the experimental papers and thus enable a more critical view, but is not strictly necessary Teaching formats Credits and pre-Hours per week, Topics, contents workload in hours conditions for granting Lecture 2 SWS 2 credits, Experimental evidence of social prefer-Social Preferences participation ence; - Theories and Models of social preferences and their 60 hours Evidence 25 hours Attendance applications; 35 hours Literature Testing models of social preferences; study and preparation Multiplicity of fairness norms and heterogeneity of social preferences; Relevance and generalizability of laboratory experiments on social prefer-Applications to economic theory Exercise 2 SWS 2 credits, Discussions of further literature, ex-Social Preferences participation amples, and applications of the topics - Theories and from the lecture 60 hours Evidence 25 hours Attendance 35 hours Literature study and preparation Final exam 60 hours 2 credits, Written exam (90 min) pass and preparation

2 semester

☐ summer term

Duration

Start of Module

□ 1 semester

winter term

Modul 171: Semi	Credits: 6			
				ic economics. They are able economics.
Preconditions: mod	ule "Introduction to Advance	ed Microeconomic An	alysis" [or equ	iivalent].
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, cont	tents
Seminar Voting Behavior I	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Theoretical results on a recent topic public economics.	
Seminar Voting Behavior II	1 SWS 60 hours 15 hours Attendance 45 hours Literature study and preparation of course and special work- ing task	2 credits, participation, presentation (45 min)	Empirical results on a recent topic public economics.	
Final exam	90 hours Term paper (40,000 ZoL) and preparation	3 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	⊠ winter term	□ summer term		

Modul 172: Topic		Credits: 6		
methods. Students choose e	s: able to address selected to			
Preconditions: non	e			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, conf	tents
Lecture	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Lectures of Economics	n current issues in Public
Exercise	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature r tions	review, discussions, applica-
Seminar I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Seminar or economics	n current issues in public
Seminar II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature r	review, discussions, applica-
Final exam	60 hours Written exam (90 min) and preparation or term paper (45,000 ZoL) and preparation	2 credits, pass		
Duration	☑ 1 semester		semester	
Start of module	⊠ winter term or	er term or Summer term		

Modul 180: Econ	Credits: 6			
Learning objectives The students are alther research analy	ble to understand and apply	exogenous and ende	ogenous economic growth models for fur-	
Preconditions: none	2			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Economic Growth	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	The lecture covers the first attempts of growth models, advanced exogenous models and introduces different types of endogenous models.	
Exercise Economic Growth	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	The problem sets are additional mathematical examples to give students a better understanding of the lecture.	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	☐ 2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 190: Emer	Credits: 6			
know about stylize	able to characterize the spec	velopment, about me	economies in the world economy. They echanisms of financial crises, the founda- arracteristics on behavior.	
Preconditions: bas	ic knowledge in monetary, fir	nancial and internatio	nal economics	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation of course and special work- ing task	2 credits, participation assignment (about 20,000 characters)	Principles of emerging economies Financial sector development Financial crisis Microfinance Risk attitude and financial literacy	
Seminar	2 SWS 90 hours 25 hours Attendance 65 hours Literature study and preparation of course and special work- ing task	3 credits, participation term paper (30,000 ZoL) and preparation	Selected topics of emerging markets	
Final exam	30 hours Multimedia exam (30 min) and preparation	1 credit, pass		
Duration	□ 1 semester □ 2 semester			
Start of module	⊠ winter term □ summer term			

Modul 201: Selec	Credits: 6			
	ble to address selected topics			
Students choose e	ither a lecture and exercise (with written exam) o	r a seminar (with term paper).	
Preconditions: non	e			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Current issues in economics	
Exercise	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature review, discussions, applications	
Seminar	2 SWS 90 hours 25 hours Attendance 65 hours Literature study and preparation of course and special work- ing task	3 credits, participation , presentation (30 -60 min) and discussion	Current issues in economics	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
	90 hours Term paper (45,000 ZoL) and preparation	3 credits, pass		
Duration	☑ 1 semester	nester		
Start of module	⊠ winter term or ⊠ summer term			

Fachlicher Wahlpflichtbereich

Bereich C: Volkswirtschaftslehre und Methodische Grundlagen

Methodische Grundlagen

Modul 8.1: Applie	ed Econometrics			Credits: 6
panel data and tin empirical studies	a basic knowledge of econo ne series data as well as of to investigate particular ec ods and interpret the results	their applicability in conomic problems, w	practice. They hereby they	y are able to carry out own
Preconditions: bas	ic knowledge equivalent to r	module "Introduction	to Econometri	cs" (Bachelor)
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, con	tents
Lecture Applied Econo- metrics	3 SWS 90 hours 35 hours Attendance 55 hours Literature study and preparation	3 credits, participation	ear regress Model select Stochastic tal variable Introduction Models for pendent v models, tru tobit model Time series	tion and model diagnostics; regressors and instrumen- estimation; n to panel data analysis; qualitative and limited de- ariables (logit and probit incated and censored data,
Exercise Applied Econo- metrics	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Application ta;	exercise questions; of methods to empirical da- nometric software
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	□ 1 semester □ 2 semesters			
Start of module	⊠ winter term □ summer term			

Modul 80: Time S	eries Analysis	Credits: 6	
tic/statistical conce estimate and valida carry out own emp iar with the main of ty.	a sound knowledge of the opts, with a focus on univar ate an ARIMA model in ord irical studies and to interpro oncepts of multivariate tim	riate modeling tools. er to forecast future of et the results in a mea ne series analysis and	ries methodology including its probabilis. They know how to appropriately specify values of the time series, and are able to aningful way. The students are also familiof modeling conditional heteroscedasticities of Econometrics" (Bachelor)
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Lecture Time Series Anal- ysis	3 SWS 90 hours 35 hours Attendance 55 hours Literature study and preparation	3 credits, participation	Exploratory time series analysis based on components models (linear filtering trend estimation, seasonal adjust ment); Stochastic processes and stationarity Specification, estimation, validation and forecasting of AR(I)MA models Nonstationary processes and unit roo testing; GARCH models for clustered volatility Stable VAR processes; Causality and impulse-response analy sis; Cointegration analysis
Exercise Time Series Anal- ysis	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Theoretical exercise questions; Appli cation of time series methods to em pirical data; Use of econometric software
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass	
Duration	☑ 1 semester ☐ 2 semester		
Start of module	□ winter term □ summer term		

Modul 81: Analys	Credits: 6			
fronted with an eco	a thorough knowledge of t	they are able to speci	d methods for analyzing panel data. Con- ify appropriately a model, to carry out an	
Preconditions: basi	c knowledge equivalent to r	module "Introduction	to Econometrics" (Bachelor)	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Analysis of Panel Data	3 SWS 90 hours 35 hours Attendance 55 hours Literature study and preparation	3 credits, participation	Basic concepts; Error component regression models with fixed and random effects; Tests of hypotheses with panel data; Serial correlation and heteroscedasticity; Simultaneous equations with error components; Dynamic panel data models; Models for qualitative dependent variables	
Exercise Analysis of Panel Data	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Theoretical exercise questions; Application of methods to empirical data; Use of econometric software	
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	☐ winter term	⊠ summer term		

Modul 82: Microeconometrics Credits: 6 Learning objectives: The students have a good understanding of microeconometric methods for analyzing cross-sectional, individual-level data. They have a sound knowledge of models of discrete choice, censoring, truncation, sample selection, treatment effects, duration, and the analysis of count data. The students are able to carry out own empirical studies to investigate the economic behavior of individuals or firms, and to interpret the results in a meaningful way. Preconditions: basic knowledge equivalent to module "Introduction to Econometrics" (Bachelor) Teaching format Hours per week, Credits Topics, contents workload in hours preconditions for granting Lecture 3 SWS 3 credits, Binary, multinomial and ordered re-Microeconometrics participation sponse models: identification, interpre-90 hours tation and estimation of parameters, 35 hours Attendance model diagnostics; 55 hours Literature Tobit model: truncated and censored study and preparation regression; Sample selection models and evaluation of treatment effects; Models for duration data: hazard functions, estimation with censored data, heterogeneity; Count data analysis: Poisson and negative binomial regression model Exercise 1 SWS 1 credit, Theoretical exercise questions; Appli-Microeconometrics participation cation of methods to empirical data; 30 hours Use of econometric software 15 hours Attendance 15 hours Literature study and preparation Final exam 60 hours 2 credits, Written exam (90 min) pass and preparation Duration □ 1 semester 2 semester Start of module ☐ summer term

Credits: 6 **Modul 83: Advanced Econometrics** Learning objectives: The students have a rigorous knowledge of regressions methods and maximum likelihood estimation both for cross-sectional and panel applications with a focus on causal analysis in microeconometrics. They are familiar with asymptotic analysis with a focus on robust standard errors and LM-tests under heteroscedastic settings. They learn advanced estimation techniques in modern econometrics such as generalized methods of moments (GMM), binary response models, limited dependent variables models, selection models, and selected semiparametric methods. Preconditions: module "Econometric Methods" Hours per week, Credits Topics, contents Teaching format workload in hours preconditions for granting Lecture 3 SWS 3 credits. single-equation regression (OLS and 2SLS), Wald estimator and LATE, sys-Advanced Econoparticipation tem estimation, panel regression, rometrics 90 hours bust standard errors, LM-Tests, maxi-35 hours Attendance mum likelihood, binary response models, limited dependent variables 55 hours Literature study and preparation selected models, selection models, semiparametric methods such as nonparametric regression, partially linear models, or quantile regression Exercise 1 SWS 1 credit, Theoretical exercise questions; Advanced Econoparticipation Application of methods to empirical dametrics 30 hours 15 hours Attendance Use of econometric software 15 hours Literature study and preparation Final exam 60 hours 2 credits, Written exam (90 min) pass and preparation Duration □ 1 semester 2 semester Start of module ☐ winter term Summer term

Modul 84: Estima	Credits: 6		
of modern microeco tial outcome appro and for selection b data, both repeate methods using Stat	pnometric methods for trea ach, and students learn va ased on unobservables. Th d cross-sections and panel	tment effects estimat prious methods to acc ese methods are use I data. Students will	emiparametric regression techniques and ion. The treatment focuses on the potentount for selection based on observables of for cross-section data and longitudina familiarize themselves with applying the
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Lecture Estimation of Treatment Effects	3 SWS 90 hours 35 hours Attendance 55 hours Literature study and preparation	3 credits, participation	Kernel Estimation, Nearest Neighbor estimation, Nonparametric Regression Semiparametric selection model; Potential Outcome Approach; Methods to account for selection or observables (regression, matching, inverse probability weighting); Methods to account for selection on unobservables (Heckman selection correction difference-in-differences, panel regression, instrumental variable regression regression discontinuity design)
Exercise Estimation of Treatment Effects	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Work on Exercise Problems; Application of methods using real empirical data; Use of econometric software
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass	
Duration	☑ 1 Semester ☐ 2 Semester		
Start of module	⊠ ws □ SoSe		

Modul 85: Econor	metric Projects	Credits: 6		
Learning objectives	<u>5:</u>			
of how to apply ap iar with empirical	propriately chosen economet data-handling and with the estimated. The students have	ric methods to real di way of translating a	search. They have a good understanding ata or to simulated data. They are famil- in economic model into an econometric ent their research findings orally as wel	
Preconditions: mod	dule "Econometric Methods" a	and one other course	in econometrics	
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents	
Lecture Econo- metric Projects	1 SWS 30 hours 15 hours Attendance 15 hours Literature study and preparation	1 credit, participation	Introduction of econometric prob- lems, models and software	
Seminar Econo- metric Projects	1 SWS 60 hours 15 hours Attendance 45 hours Literature study and preparation of course and special work- ing task	2 credits, participation, oral presentation (max. 30 min)	Presentation and discussion of em pirical student projects or simula tion studies	
Final exam	90 hours Term paper (about 15 pages/ 27,000 ZoL) and preparation	3 credits, pass		
Duration	☑ 1 semester	2 semester		
Start of module	⊠ winter term	or 🛮 su	mmer term	

Modul 86: Selecte	Credits: 6		
know how to apply	a deep understanding of ad	I data. They are a	n certain special fields of econometrics, and ble to understand and evaluate current re-
Preconditions: mod	dule "Econometric Methods"		
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
This module consists of a combination of: Lecture/ Exercise/ Seminar	4 SWS 120 hours 45 hours Attendance 75 hours Literature study and preparation of course and special work- ing task	4 credits, participation and if seminar, speci work assignmen oral presentation (max. 30 min)	parametric techniques, resampling methods, Bayesian inference, multiple
Final exam	60 hours Seminar: Term paper (ca. 10 pp./ 18.000 characters) and preparation – 1 credit Lecture: Written exam (90 min if 4 periods/week or 60 min if 2 periods/week) or oral exam (30 min) and preparation – 1 credit	2 credits, pass	
Duration	☑ 1 semester	or 🗵	2 semester
Start of module	⊠ winter term	and/or	summer term

Modul 9: Multivar	iate Statistical Analysis		Credits: 6
Learning objectives The students have basic multivariate to	overview about theoretical	foundations of mu	ltivariate statistics. They are able to use
Preconditions: none	2		
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Lecture Multivariate Sta- tistical Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Graphical display of multidimensional data, Repetition: matrix algebra, linear model, correlation, Multivariate random variables, Multinormal distribution, Maximum likelihood theory, Principal components, Discriminant Analysis, Cluster Analysis
Exercise Multivari- ate Statistical Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Practical work with statistical software
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass	
Duration	☑ 1 semester		2 semesters
Start of module	⊠ winter term		summer term

Modul 90: Statistic	al Programming Languages		Credits: 6
	roduced to the basic concepts of stat have in-depth knowledge of mathe		
Preconditions: basic	knowledge equivalent to module "Sta	tistik I" und "Stati	stik II" (Bachelor)
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Seminar Statistical Programming Languages I	1 SWS 30 hours 15 hours attendance 15 hours literature study and preparation	1 credit, participation	Data analysis and program- ming statistical algorithms in a statistical programming language
Seminar Statistical Programming Languages II	1 SWS 60 hours 15 hours attendance 45 hours literature study and preparation of course and special working task	2 credits, participation presentation (45 min)	Application in programming, e.g. in Numerical Linear Alge- bra, Curve Fitting, Optimiza- tion, Random Number Gener- ation, Numerical Solutions of Stochastic Differential Equa- tions
Final exam	90 hours Term paper (45.000 ZoL) and preparation	3 credits, pass	
Duration	☑ 1 semester	☐ 2 ser	mester
Start of module	⊠ winter term	sumi	mer term

Leistungspunkte: 6 Module 91: Datenanalyse I Lern- und Qualifikationsziele: Die Studierenden haben eine Übersicht über Methoden zur Aufbereitung und Analyse von Beobachtungsdaten mittels deskriptiver, explorativer, grafischer und induktiver statistischer Verfahren unter Einsatz von statistischer Software. Sie sind in der Lage, komplexe Statistik-Prozeduren theoretisch fundiert anzuwenden und die Ergebnisse sachgerecht zu interpretieren. Die Veranstaltungen decken dabei die Datenaufbereitung, univariate Statistik und (Unter-)Gruppenanalyse ab. Fachliche Voraussetzungen für die Teilnahme am Modul bzw. bestimmten Lehrveranstaltungen des Moduls: Lehrveranstaltungsart Präsenzzeit Leistungspunkte, Themen, Inhalte Workload in Stunden Voraussetzung für deren Erteilung 2 LP. Wiederholung Statistik I und II, 2 SWS Vorlesung Datenanalyse I Teilnahme Fragebogenkonstruktion, 60 Stunden Datenbereinigung, Ausreißer, 25 Stunden Präsenzzeit Fehlende Werte, 35 Stunden Vor- und Univariate und Bivariate Statistik Nachbereitung der (Grafiken, Kennzahlen und Tests) Lehrveranstaltungen 2 LP, Praktische Aufgaben zum Vorlesungs-Übung 2 SWS Teilnahme stoff, die mit statistischer Software Datenanalyse I gelöst werden 60 Stunden 25 Stunden Präsenzzeit 35 Stunden Vor- und Nachbereitung der Lehrveranstaltungen 2 LP, Modulabschlussprüfung 60 Stunden Klausur (90 min) oder Bestehen mündliche Prüfung (30 min) und Vorbereitung Dauer des Moduls □ 1 Semester ☐ 2 Semester Beginn des Moduls ☐ Wintersemester

Modul 92: Datenanalyse II Leistungspunkte: 6 Lern- und Qualifikationsziele: Die Studierenden haben eine Übersicht über Methoden zur Aufbereitung und Analyse von Beobachtungsdaten mittels deskriptiver, explorativer, grafischer und induktiver statistischer Verfahren unter Einsatz von statistischer Software. Sie sind in der Lage, komplexe Statistik-Prozeduren theoretisch fundiert anzuwenden und die Ergebnisse sachgerecht zu interpretieren. Die Veranstaltungen decken dabei die Zusammenhangs- und Regressionsanalyse sowie die Multivariate Statistik ab. Fachliche Voraussetzungen für die Teilnahme am Modul bzw. bestimmten Lehrveranstaltungen des Moduls; keine Lehrveranstaltungsart Präsenzzeit Leistungspunkte, Themen, Inhalte Workload in Stunden Voraussetzung für deren Erteilung Vorlesung 2 SWS 2 LP. Multivariate Statistik. Datenanalyse II Teilnahme Lineare Regression, 60 Stunden Nicht- und semiparametrische Re-25 Stunden Präsenzzeit gression 35 Stunden Vor- und Nachbereitung der Lehrveranstaltungen Übung 2 SWS 2 LP, Praktische Aufgaben zum Vorle-Datenanalyse II Teilnahme sungsstoff, die mit statistischer 60 Stunden Software gelöst werden 25 Stunden Präsenzzeit 35 Stunden Vor- und Nachbereitung der Lehrveranstaltungen Modulabschlussprüfung 2 LP, 60 Stunden Klausur (90 min) oder Bestehen mündliche Prüfung (30 min) und Vorbereitung Dauer des Moduls □ 1 Semester ☐ 2 Semester Beginn des Moduls ☐ Sommersemester

Modul 93: Statisti	cs of Financial Markets		Credits: 6
	the basic concepts of option		obabilistic foundations and stochastic pro-
and numerical solut		w about various me	ethods, e.g. Black-Scholes Option model
Preconditions: none			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Lecture Statistics of Financial Mar- kets I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Financial derivative, Option management, Basic concepts of probability theory, Stochastic processes in discrete time, Stochastic Integrals and differential equations, Black-Scholes option pricing model, Binomial model for European options and American options, Exotic options and interest rate derivatives. As a part of the course, an obligatory trip to an European financial institution will be organized.
Exercise Statistics of Financial Markets I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Practical applications
Final exam	60 hours Oral exam (30 min) and preparation	2 credits, pass	
Duration	☑ 1 semester		2 semester
Start of module	⊠ winter term		summer term

Modul 94: Advanc	ed Methods in Quantitati	ve Finance		Credits: 6
Learning objectives: The students have applications for risk	detailed knowledge of finar	icial time series and	alysis. They kr	now various techniques and
Preconditions: none				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, cont	rents
Lecture Statistics of Financial Mar- kets II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	ARIMA mod Volatility, N nancial time	epts of statistical models, el, Time series of stochastic lonparametric model on fi- e series, Value at risk and g, Copulas, Extreme value, etwork
Lecture Advanced Methods in Quan- titative Finance	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	atility, math	sk, Credit Risk, Implied Vol- nematical and computation- of risk managements in
Final exam	60 hours Oral exam (60 min) and preparation	2 credits, pass		
Duration	☑ 1 semester		2 semester	
Start of module	☐ winter term		summer term	

Modul 95: Selecte tistics	d Topics in Finance, Insu	rance and Mathem	natical Sta-	Credits: 6
Learning objectives		al book applied in	finance and is	They have no le
	out the mathematical found			nsurance. They have an in-
Preconditions: none				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, con	tents
Lecture Statistical Tools for Finance and Insurance	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Modern sta nance and i	ntistical tools applied in fi- insurance
Lecture Mathematical Foundations for Finance and In- surance	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation		al foundations for statistical ince and insurance
Final exam	60 hours Oral exam (60 min) and preparation	2 credits, pass		
Duration	☑ 1 semester		2 semester	
Start of module	⊠ winter term	□ s	summer term	

Modul 96: Multiva ing	riate Statistics and Non-	and Semiparamet	ric Model-	Credits: 6
Learning objectives:	2			
The students have i	n-depth knowledge of select	ted statistical topics.		
Preconditions: none				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, con	tents
Lecture Multivari- ate Statistical Analysis II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	tors, Factor scaling, Ca spondence	tion of data matrices by fac- r analysis, Multidimensional nonical correlations, Corre- analysis, Projection pursuit, easurement analysis, SIR
Lecture Non- and Semiparametric Modeling	2 SWS 60 hours 25hours Attendance 35 hours Literature study and preparation	2 credits, participation	timation, Additive Mo alized Lines Single-Inde	Nonparametric Density Es- Nonparametric Regression, odels, Linear Models, Gener- ar Models, Additive Models, ex Models, Generalized Par- Models, Generalized Additive
Final exam	60 hours Written exam (180 min) and preparation	2 credits, pass		
Duration	☑ 1 semester		2 semester	
Start of module	☐ winter term	—————————————————————————————————————	summer term	

Modul 97: Statisti	cal Seminars			Credits: 6
Learning objectives The students have i	: n-depth knowledge of curre	nt research in financ	cial and related	mathematical statistics.
Preconditions: none				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, conto	ents
Seminar Mathe- matical Statistics	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation		of research results in top- matical statistics
Seminar Economic Risk	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Selected Top	oics of Economic Risk
Final exam	60 hours Oral exam (45 min) and preparation	2 credits, pass	•	
Duration	☑ 1 semester		2 semester	
Start of module	⊠ winter term		summer term	

Credits: 6 Modul 98: Selected Topics in History of Statistics Learning objectives: The students should learn to be able to analyse, to understand and to interpret historical events and developments in the history of statistics. They should learn methodological approaches to analyse publications on statistics and mathematics. The aim of the seminar is to study classical papers on statistics and mathematical statistics and to analyse them from a historical perspective. Active participation is desired; the seminar is for students who are interested in history of statistics and mathematical statistics. Preconditions: module "Statistik I" and "Statistik II" or equivalent knowledge Teaching format Hours per week, Credits Topics, contents workload in hours preconditions for granting 1 SWS Seminar Selected 1 credit, Serious reading of classical papers (book chapters or articles) on mathematics and mathematical Topics in History of participation Statistics I 30 hours statistics (for example written by 15 hours attendance Leontief, Kantorovich, Koopmans, 15 hours literature study Dantzig) and preparation Reading on history of ideas, theories, and methods, and biographies related to the topic Reading on history of computer technology, and computer programming, related to statistics Seminar Selected Serious reading of classical papers 1 SWS 2 credits, Topics in History of participation on statistics (for example written Statistics II presentation 60 hours by von Bortkiewicz, von Mises, 15 hours attendance (30 min) and others) 45 hours Reading on history of ideas, theories, and methods, and biographies related to the topic literature study and preparation of course and special working task Comparative analysis of the development of statistics in different countries and various time periods Final exam 90 hours 3 credits, Term paper (45.000 ZoL) pass and preparation Duration □ 1 semester 2 semester Start of module ☐ winter term Summer term

Modul 99: Privatiss	simum		Credits: 6
	ald acquire methodological k		ant for statistics and their historical destorical analysis of statistical and math
Preconditions: none			
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Seminar Privatissi- mum I	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Review and discussion of statistical research results
Seminar Privatissi- mum II	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation of course and special working task	2 credits, participation, presentation (30 min)	Presentation of research results at the Ladislaus von Bortkiewicz Chair of Statistics
Final exam	60 hours Oral exam (45 min) and preparation	2 credits, pass	
Dauer des Moduls	☑ 1 semester		2 semester
Beginn des Moduls	⊠ winter term		summer term

Modul 202: Selec	cted Topics in Quantitative	Methods	Credits: 6
	able to address selected topics		nods a seminar (with term paper).
Preconditions: nor	ne		
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, contents
Lecture	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Current issues in Quantitative Methods
Exercise	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature review, discussions, applications
Seminar	2 SWS 90 hours 25 hours Attendance 65 hours Literature study and preparation of course and special work- ing task	3 credits, participation, presentation (30 - 60 min) and dis- cussion	Current issues in Quantitative Methods
Final exam	60 hours Written exam (90 min) and preparation	2 credits, pass	
	90 hours Term paper (45,000 ZoL) and preparation	3 credits, pass	
Duration	☐ 1 semester	□ 2	semester
Start of module	☑ winter term or	⊠ su	mmer term

Überfachlicher Wahlpflichtbereich für andere Masterstudiengänge:

Macroeconomic A	Introduction to Advan- nalysis	ced Microeconom	ic and	Credits: 10
Learning objectives:				I
externalities and pu They can apply thes	blic goods, imperfect compe se theories to concrete ecor	tition, asymmetric in nomic problems. The	formation are students are	omics: competitive markets, nd bounded rationality. e able to use models of eco- retical analysis of macroeco-
Preconditions: none				
Teaching format	Hours per week, workload in hours	Credits preconditions for granting	Topics, cor	ntents
Lecture Introduction to Advanced Micro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	um; Exter perfect Co gopoly; As	quilibrium; Partial Equilibri- malities; Public goods; Im- ompetition; Monopoly; Oli- symmetric Information; Ad- ection; Moral Hazard; Behav- cts
Exercise Introduction to Advanced Micro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Exercises a	and model application
Lecture Introduction to Advanced Macro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Dynamic empirical a be analyse	macroeconomic analysis and theoretical questions wil ed
Exercise Introduction to Advanced Macro- economic Analysis	2 SWS 60 hours 25 hours Attendance 35 hours Literature study and preparation	2 credits, participation	Literature tions	review, discussions, applica-
Final exam	60 hour Written exam Introduction to Advanced Microeconomics Analysis (90 min) and preparation or Written exam Introduction to Advanced Macroeconomic Analysis (90 min) and preparation	2 credits, pass		
Duration	☑ 1 semester		semester	
Start of module	⊠ winter term	□ s	ummer term	

Anlage 2: Idealtypischer Studienverlaufsplan¹

Nr. d. Moduls	Name oder Kürzel des Moduls	1. Se- mester	2. Se- mester	3. Se- mester	4. Se- mester
8.2	Pflichtmodul Econometric Methods	12 LP			
100	Wahlpflichtmodule Mikro- und Mak- roökonomie Introduction to Advanced Microeconomic Analysis				
101	oder Advanced Microeconomics Theory I (PhD-level)	12 LP			
102	Introduction to Advanced Macroeconomic Analysis oder				
103	Advanced Macroeconomic Analysis I (PhD-level)				
	Wahlpflichtmodule Volkswirtschaftslehre				
104	Advanced Monetary Economics				
105	Advanced International Trade: Theory and Empir-				
	ics	6 LP	12 LP		
106	Competition Policy				
107	Decision-Making under Uncertainty				
108	Empirical Labor Economics				
109	Information Economics				
110	Public Economics				
111	Advanced Labor Economics				
	Wahlpflichtmodule		18 LP	30 LP	
	Überfachlicher Wahlpflichtbereich				10 LP
	Masterarbeit				20 LP
LP je Sei	mester	30 LP	30 LP	30 LP	30 LP

Das 3. Semester eignet sich besonders für ein Studium an einer Universität im Ausland. Zur Vereinfachung der Anrechnung der an der ausländischen Universität erbrachten Studienleistungen und Prüfungen wird der vorherige Abschluss eines Learning Agreements empfohlen.

Fachspezifische Prüfungsordnung

für den Masterstudiengang "Volkswirtschaftslehre"

Gemäß § 17 Abs. 1 Ziffer 3 der Verfassung der Humboldt-Universität zu Berlin in der Fassung vom 24. Oktober 2013 (Amtliches Mitteilungsblatt der Humboldt-Universität zu Berlin Nr. 47/2013) hat der Fakultätsrat der Wirtschaftswissenschaftlichen Fakultät am 25. Mai 2016 folgende Prüfungsordnung erlassen:

- § 1 Anwendungsbereich
- § 2 Regelstudienzeit
- § 3 Prüfungsausschuss
- § 4 Modulabschlussprüfungen
- § 5 Rücknahme von Prüfungsanmeldungen
- § 6 Abschlussnote
- § 7 Akademischer Grad
- § 8 In-Kraft-Treten

Anlage: Übersicht über die Prüfungen

§ 1 Anwendungsbereich

Diese Prüfungsordnung enthält die fachspezifischen Regelungen für den Masterstudiengang Volkswirtschaftslehre. Sie gilt in Verbindung mit der fachspezifischen Studienordnung für den Masterstudiengang Volkswirtschaftslehre und der Fächerübergreifenden Satzung zur Regelung von Zulassung, Studium und Prüfung (ZSP-HU) in der jeweils geltenden Fassung.

§ 2 Regelstudienzeit

Der Masterstudiengang Volkswirtschaftslehre hat eine Regelstudienzeit von vier Semestern.

§ 3 Prüfungsausschuss

Für die Prüfungsangelegenheiten des Masterstudienganges Volkswirtschaftslehre ist der Prüfungsausschuss Volkswirtschaftslehre zuständig. Der Ausschuss wird auf Vorschlag der im Fakultätsrat der Wirtschaftswissenschaftlichen Fakultät vertretenen Gruppen durch den Fakultätsrat für 2 Jahre eingesetzt.

§ 4 Modulabschlussprüfungen

Mündliche Modulabschlussprüfungen werden in Anwesenheit einer sachkundigen Beisitzerin oder eines sachkundigen Beisitzers abgenommen, soweit nicht nach Maßgabe der ZSP-HU zwei Prüferinnen und Prüfer bestellt werden. Die Beisitzerin oder der Beisitzer beobachtet und protokolliert die Prüfung. Sie oder er beteiligt sich nicht am Prüfungsgespräch und der Bewertung.

§ 5 Rücknahme von Prüfungsanmeldungen

Prüfungsanmeldungen können bis zum Ablauf des dritten Arbeitstages (Montag bis Freitag) vor einem Prüfungstermin oder Beginn einer Bearbeitungszeit ohne Angabe von Gründen zurückgenommen werden. Für die Einhaltung der Fristen sind die Studierenden verantwortlich.

§ 6 Abschlussnote

- (1) Die Abschlussnote des Masterstudiengangs Volkswirtschaftslehre wird aus den Noten der Modulabschlussprüfungen des Pflicht- und des fachlichen Wahlpflichtbereichs und der Note der Masterarbeit, gewichtet nach den gemäß Anlage für die Module ausgewiesenen Leistungspunkten, berechnet. Zur Berechnung der Abschlussnote werden im Fachlichen Wahlpflichtbereich die besten Noten in dem in der Anlage spezifizierten Umfang berücksichtigt. Darüber hinausgehende Noten für Modulabschlussprüfungen bleiben unberücksichtigt.
- (2) Modulabschlussprüfungen, die nicht benotet werden oder im Rahmen einer Anrechnung mangels vergleichbarer Notensysteme lediglich als "bestanden" ausgewiesen werden, sowie die für die entsprechenden Module ausgewiesenen Leistungspunkte werden bei den Berechnungen nach Abs. 1 nicht berücksichtigt.

§ 7 Akademischer Grad

Wer den Masterstudiengang Volkswirtschaftslehre erfolgreich abgeschlossen hat, erlangt den akademischen Grad "Master of Science" (abgekürzt "M.Sc.").

§ 8 In-Kraft-Treten

- (1) Diese Prüfungsordnung tritt am Tage nach ihrer Veröffentlichung im *Amtlichen Mitteilungsblatt der Humboldt-Universität zu Berlin* in Kraft.
- (2) Diese Prüfungsordnung gilt für alle Studentinnen und Studenten, die ihr Studium nach dem In-Kraft-Treten dieser Prüfungsordnung aufnehmen oder nach einem Hochschul-, Studiengangs- oder Studienfachwechsel fortsetzen.

Die Universitätsleitung hat die Prüfungsordnung am 19. Juli 2016 bestätigt.

(3) Für Studentinnen und Studenten, die ihr Studium vor dem In-Kraft-Treten dieser Prüfungsordnung aufgenommen oder nach einem Hochschul-, Studiengangs- oder Studienfachwechsel fortgesetzt haben, gilt die Prüfungsordnung vom 28. Januar 2008 (Amtliches Mitteilungsblatt der Humboldt-Universität zu Berlin Nr. 02/2008) übergangsweise fort. Alternativ können sie diese Prüfungsordnung einschließlich der zugehörigen Studienordnung wählen. Die Wahl muss schriftlich gegenüber dem Prüfungsbüro erklärt werden und ist unwiderruflich. Mit Ablauf des 30. September 2019 tritt die Prüfungsordnung vom 28. Januar 2008 außer Kraft. Das Studium wird dann auch von den in Satz 1 benannten Studentinnen und Studenten nach dieser Prüfungsordnung fortgeführt. Bisherige Leistungen werden entsprechend § 110 ZSP-HU berücksichtigt.

Anlage: Übersicht über die Prüfungen

Masterstudiengang Volkswirtschaftslehre (120 LP)²

Nr. des Moduls	Modul	Ч	rachispezinische Zulas- sungsvoraussetzungen für die Prüfung	zeit/Umfang, ggf. Sprache der Prüfung im Sinne des § 108 Abs. 2 ZSP-HU	Benotung
Pflichtbereich (32 LP)	32 LP)				
8.2	Econometric Methods	12	keine	Written exam (150 min)	ja
	Masterarbeit	20	keine	Masterarbeit ist innerhalb von 90 Tagen zu erstellen und soll in der Regel einen Umfang von ca. 100.000 -120.000 Zeichen ohne Leerzeichen (ca. 60 Textseiten ohne Anhang) haben.	ej.
Fachlicher Wahl	Fachlicher Wahlpflichtbereich (78 LP) (die 58 LP der bestbenoteten Module gehen in die Benotung ein)	n Module gehen	in die Benotung ein)		
Von den 78 LP s schaftslehre (24	Von den 78 LP sind 12 LP aus dem Bereich A: Mikro- und Makroökonomie, 18 LP aus dem Bereich B: Volkswirtschaftslehre, 30 LP aus dem Bereich C: Volkswirt-schaftslehre, 12 LP aus dem Bereich C: Volkswirt-schaftslehre (24 LP) und Methodische Grundlagen (6 LP) und 18 LP aus den Bereichen A - D zu wählen.	nomie, 18 LP au P aus den Bereic	roökonomie, 18 LP aus dem Bereich B: Volkswirtsc 18 LP aus den Bereichen A - D zu wählen.	chaftslehre, 30 LP aus dem Bereich	: Volkswirt-
Bereich A: Mikro	Bereich A: Mikro- und Makroökonomie	12			
100	Introduction to Advanced Microeconomic Analysis Or Advanced Microeconomic Theory I (Ph) Level)	9 4	Keine	Written exam (90 min)	ja
101		,	No.	With exam (±50 mm)	
102	Introduction to Advanced Macroeconomic Analysis	9	keine	Written exam (90 min)	ja
103	Advanced Macroeconomic Analysis I (PhD-level)	9	keine	Written exam (90 min)	
Bereich B: Volks	Bereich B: Volkswirtschaftslehre	18			
104	Advanced Monetary Economics	9	keine	Written exam (90 min)	ja
105	Advanced International Trade: Theory and Empirics	9	keine	Written exam (90 min)	ja
106	Competition Policy	9	keine	Written exam (90 min)	ja

² In den englischsprachigen Modulen wird die Modulabschlussprüfung in englischer Sprache abgenommen.

107	Decision-Making under Uncertainty	6 keine	Written exam (90 min)	ja
108	Empirical Labor Economics	6 keine	Written exam (90 min)	ja
109	Information Economics	6 keine	Written exam (90 min)	ja
110	Public Economics	6 keine	Written exam (90 min)	ja
111	Advanced Labor Economics	6 keine	Written exam (90 min)	ja
Bereich C: Vo	Bereich C: Volkswirtschaftslehre und Methodische Grundlagen	30		
Volkswirtschaftslehre	laftslehre	24		
121	Advanced Macroeconomic Analysis II (PhD-level)	6 keine	Written exam (90 min)	ja
122	Topics in Macroeconomics	6 keine	Written exam (90 min) or term paper (45,000 ZoL)	ja
123	Topics in Labor Economics and Macroeconomics	6 keine	Written exam (90 min) or term paper (45,000 ZoL)	ē
130	European Economic History I	6 keine	Written exam (90 min)	ja
131	European Economic History II	6 keine	Written exam (90 min)	ja
132	Economic History	6 keine	Term paper (40,000 ZoL)	ja
133	Spatial Economics	6 keine	Term paper (40,000 ZoL)	ja
134	From Paul A. Samuelson to Elinor Ostrom - History of Economic Thought in the 20th Century	6 keine	Term paper (45.000 ZoL)	ė
140	Selected Topics in Industrial Organization	6 keine	Term paper (30.000-45.000 ZoL)	ja
150	Advanced Microeconomics	6 keine	Term paper (30,000 ZoL)	ja
151	Behavioral Economics	6 keine	Term paper (30,000 ZoL)	ja
152	Empirical Methods in Applied Microeconomics	6 keine	Term paper (30,000 ZoL)	ja
153	Advanced Experimental Economics	6 keine	Term paper (30,000 ZoL)	ja
154	Trust and Reputation	6 keine	Term paper (30,000 ZoL)	ja
155	Advanced Microeconomic Theory II (PhD-level)	6 keine	Written exam (90 min)	ja
160	Theory of Incentives	6 keine	Written exam (90 min)	ja
161	Game Theory	6 Keine	Written exam (90 min)	ja
162	Topics in Microeconomics	6 keine	Written exam (90 min) or term pa-	ja

				per (45,000 ZoL)	
170	Social Preferences	9	keine	Written exam (90 min)	ja
171	Seminar in Public Economics	9	keine	Term paper (40.000 ZoL)	ja
172	Topics in Public Economics	9	keine	Written exam (90 min) or term paper (45,000 ZoL)	ja
180	Economic Growth	9	Keine	Written exam (90 min)	ja
190	Emerging Markets	9	keine	Multimedia exam (30 min)	ja
201	Selected Topics in Economics	9	keine	Written exam (90 min) or term paper (45,000 ZoL)	ja
Methodische Grundlagen	Grundlagen	9			
7	Business Analytics and Data Science	9	keine		ja
70	Digital Marketing and Web Analytics	9	keine	Gemäß Anlage der Prüfungsordnung	ja
71	Seminar Information Systems	9	keine	für den Masterstudiengang Betriebs- wirtschaftslehre in der geltenden	ja
72	Applied Predictive Analytics	9	keine	Fassung	ja
73	IT Security and Privacy	9	keine		ja
8.1	Applied Econometrics	9	keine	Written exam (90 min)	ja
80	Time Series Analysis	9	keine	Written Exam (90 min)	ja
81	Analysis of Panel Data	9	keine	Written Exam (90 min)	ja
82	Microeconometrics	9	keine	Written exam (90 min)	ja
83	Advanced Econometrics	9	keine	Written Exam (90 min)	ja
84	Estimation of Treatment Effects	9	keine	Written exam (90 min)	ja
85	Econometric Projects	9	keine	Term paper (27,000 ZoL)	ja
98	Selected Topics in Econometrics	9	keine	Seminar: Term paper (ca. 10 pp./ 18.000 characters) – 1 credit Lecture: Written exam (90 min if 4 periods/week or 60 min if 2 peri- ods/week) or oral exam (30 min) – 1 credit	/ ja
6	Multivariate Statistical Analysis	9	keine	Written exam (90 min)	ja

06	Statistical Programming Languages	9	keine	Term paper (45,000 ZoL)	ja
91	Datenanalyse I	9	keine	Klausur (90 min) oder mündliche Prüfung (30 min)	ęj
92	Datenanalyse II	9	keine	Klausur (90 min) oder mündlichen Prüfung (30 min)	jā
93	Statistics of Financial Markets	9	keine	Oral exam (30 min)	ja
94	Advanced Methods in Quantitative Finance	9	keine	Oral exam (60 min)	ja
95	Selected Topics in Finance, Insurance and Mathematical Statistics	9	keine	Oral exam (60 min)	ja
96	Multivariate Statistics and Non- and Semiparametric Modeling	9	keine	Written exam (180 min)	ja
26.	Statistical Seminars	9	keine	Oral exam (45 min)	ja
98	Selected Topics in History of Statistics	9	keine	Term paper (45,000 ZoL)	ja
66	Privatissimum	9	keine	Oral exam (45 min)	ja
202	Selected Topics in Quantitative Methods	9	keine	Written exam (90 min) or term paper (45,000 ZoL)	ja
Bereich D: W (Es können M	Bereich D: Wirtschaftswissenschaft (Es können Module der Bereiche A-D gewählt werden.)	18			
1	Financial Accounting and Analysis	9	keine		
10	Accounting: Valuation	9	keine		ja
11	Accounting: Advanced Topics and Cases in Accounting	9	keine		ja
12	Accounting: Accounting Theory and Earnings Management	9	keine	Gemäß Anlage der Prüfungsordnung	ja
13	Accounting: Financial Accounting Research Group	9	keine	für den Masterstudiengang Betriebs- wirterhaftelehre in der geltenden	ja
14	Accounting: Master's Thesis Seminar Accounting	9	keine	Fassung	ja
2	Grundzüge der Besteuerung	9	keine		ja
20	Umwandlung von Unternehmen	9	keine		ja
21	Steuerwirkungslehre	9	keine		ja

-			Keille		ја
23	Steuerliche Gewinnermittlung / Umsatzsteuer und Verfahrensrecht	9	keine		ja
24	Master Tax Seminar	9	keine		ja
8	Marketing Management	9	keine		ja
30	Customer Analytics and Customer Insights	9	keine		ja
31	Advanced Marketing Modeling	9	keine		ja
32	Seminar Marketing	9	keine		ja
4	Organization and Management	9	keine		ja
40	Personnel Economics	9	keine		ja
41	Advanced Topics in Management	9	keine	Gemais Anlage der Prufungsordnung für den Masterstudiengang Betriebs-	ja
42	Incentives in Organizations	9	keine	wirtschaftslehre in der geltenden	ja
45	Financial Contracting	9	keine	Dinsari	ja
46	Network Based Energy Systems	9	keine		ja
47	Competition and Cooperation	9	keine		ja
5	Economics of Entrepreneurship	9	keine		ja
20	Entrepreneurial and Behavioral Decision Making	9	keine		ja
51	Design of Decision Experiments	9	keine		ja
52	Master Seminar on Entrepreneurship and Innovation	9	keine		ja
9	Corporate Finance	9	keine		ja
09	Advanced Corporate Finance	9	keine		ja
61	Private Equity	9	keine		ja
62	Introduction to Financial Economics	9	keine		ja
63	Case Seminar Advanced Corporate Finance	12	keine		ja
64	Master Thesis Seminar Corporate Finance	9	keine		ja
65	Master Thesis Seminar Financial Economics	9	keine		ja
66.1	Advanced Financial Economics - Corporate Finance	9	Keine		ja

66.2	Advanced Financial Economics - Asset Pricing	9	keine Gemäß Anlage der Prüfungsordnung	Prüfungsordnung	ja
29	Finanzierungstheorie	9	keine für den Masterstudiengang Betriebs- wirtschaftslehre in der geltenden	liengang Betriebs- der geltenden	ja
89	Market Microstructure	9	keine Fassung		ja
69	Seminar Topics in Finance	9	keine		ja
200	Selected Topics in Business Administration	9	keine		ja
Überfachlicher	Überfachlicher Wahlpflichtbereich				
Im überfachlichen Wahipfli henen Modulkatalogen an freier Wahl zu absolvieren.	Im überfachlichen Wahlpflichtbereich sind Module aus den hierfür vorgese- 10 henen Modulkatalogen anderer Fächer oder zentraler Einrichtungen nach freier Wahl zu absolvieren.	10	Die Module werden nach den Bestimmungen der anderen Fächer Die Module bzw. zentralen Einrichtungen abgeschlossen. Über die Berücksichti- werden ohne gung der Leistungen entscheidet der Prüfungsausschuss der Wirt- Note berückschaftlichen Fakultät.	er anderen Fächer r die Berücksichti- isschuss der Wirt-	Die Module werden ohn Note berück sichtiat.

Überfachlicher Wahlpflichtbereich (üWP) für andere Masterstudiengänge

				Countindario Laguel man	
Modul	П	<u> </u>	Fachspezifische Zulas- sungsvoraussetzungen für die Prüfungen	rorm, Dauer, Bearbeitungs- zeit/Umfang, ggf. Sprache der Prüfung im Sinne des § 108 Abs. 2 ZSP-HU	Benotung
Introduction to Advanced Microeconomic and Macroeconomic Analysis	10	ž	keine	Written exam Introduction to Advanced Microeconomics Analysis (90 min) and preparation	ja
				or	
				written exam Introduction to Advanced Macroeconomic Analysis (90 min) and preparation	