



Otto-Friedrich Universität Bamberg

Module Handbook

Module Handbook MA EES

Faculty of Social Sciences, Economics and Business Administration

In accordance with the current version of the study and examination regulations for the Master's degree programme European Economic Studies (EES) at the Otto-Friedrich-Universität Bamberg dated 11 March 2022. Valid from the summer semester 2026.

Note on the continued validity of older versions of a module handbook:

1. Start of validity

The module descriptions contained in this module handbook apply for the first time for the semester indicated on the cover page.

2. Transitional provision

a. Students who have already completed parts of a module according to the previously valid module handbook (cf. No. 2b) complete the module according to the previously valid version of the module.

This transitional provision applies exclusively to the examination date immediately following the missed/failed/not completed regular examination date. Upon application by the student, the examination board may, in justified cases, determine an extension of the transitional period.

b. A module is completed in parts if the module examination was not passed or missed. The same applies if at least one partial module examination has been passed, failed or missed.

Furthermore, a module is considered to have been completed in part if the student has registered for a course assigned to the respective module in accordance with the previously applicable module handbook.

3. Period of validity

The module handbook is also valid for subsequent semesters until a modified module handbook is announced.

Hinweis zur Weitergeltung älterer Fassungen eines Modulhandbuchs:

1. Geltungsbeginn

Die im vorliegenden Modulhandbuch enthaltenen Modulbeschreibungen gelten erstmals für das Semester, das auf dem Deckblatt angegeben ist.

2. Übergangsbestimmung

a. Studierende, die gemäß bisher geltendem Modulhandbuch ein Modul bereits in Teilen absolviert haben (vgl. Nr. 2b), schließen das Modul nach der bisher geltenden Fassung des Modulhandbuchs ab.

Diese Übergangsbestimmung gilt ausschließlich für den dem versäumten/nicht bestanden/nicht absolvierten regulären Prüfungstermin unmittelbar folgenden Prüfungstermin. Auf Antrag der oder des Studierenden kann der Prüfungsausschuss in begründeten Fällen eine Verlängerung der Übergangsfrist festlegen.

b. Ein Modul ist in Teilen absolviert, wenn die Modulprüfung nicht bestanden oder versäumt wurde. Gleiches gilt für den Fall, dass zumindest eine Modulteilprüfung bestanden, nicht bestanden oder versäumt wurde.

Ferner gilt ein Modul als in Teilen absolviert, sofern sich die oder der Studierende gemäß bisher geltendem Modulhandbuch zu einer dem jeweiligen Modul zugeordneten Lehrveranstaltung angemeldet hat.

3. Geltungsdauer

Das Modulhandbuch gilt bis zur Bekanntgabe eines geänderten Modulhandbuchs auch für nachfolgende Semester.

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1) Master EES (Studiengang)

a) MAEES1 Core Curriculum: Economic Theory and Methods (Wahlpflichtbereich) ECTS: 24

English: In the module group MAEES1 "Core Curriculum: Economic Theory and Methods", four modules with a total of 24 ECTS must be completed. (MAEES1.1, MAEES1.2 and Mathe-M-01 are compulsory, as well as optionally SuStat-014-M or SuStat-013-M).

Deutsch: In der Modulgruppe MAEES1 „Volkswirtschaftliches und methodisches Grundprogramm“ sind vier Module im Umfang von 24 ECTS zu absolvieren (dabei sind MAEES1.1, MAEES1.2 und Mathe-M-01 verpflichtend, sowie wahlweise SuStat-014-M oder SuStat-013-M zu absolvieren):

MAEES1.1: Advanced Microeconomics (6 ECTS, every semester).....	11
MAEES1.2: Advanced Macroeconomics (6 ECTS, every semester).....	13
SuStat-014-M: Advanced Econometrics (6 ECTS, every summer semester).....	15
SuStat-013-M: Introduction to Econometrics (6 ECTS, every winter semester).....	16
Mathe-M-01: Advanced Mathematical Methods (6 ECTS, every winter semester).....	17

b) MAEES2 Foreign Business Language (Wahlpflichtbereich) ECTS: 12

English: In the module group MAEES2 "Foreign Business Language", modules of a foreign business language *or* basic language modules with a total of 12 ECTS credits must be completed.

In the *business languages* two modules of one of the following languages are to be chosen:

- Business English (12 ECTS), except for the module "Business English 1"!
- Business French (12 ECTS)
- Business Italian (12 ECTS)
- Business Spanish (12 ECTS)

Business German can only be chosen by students who have not acquired their university entrance qualification in German, provided that the examination board (Dr. Felix Stübben) has approved an application in this regard.

Students who do not have the language skills required in the business languages modules are given the opportunity (with the exception of business English) to complete *basic modules* in one of the foreign languages listed above, provided that the examination board (Dr. Felix Stübben) has approved an application in this regard. The following modules can be selected:

- Französisch: Sprachpraxis A1: Einführungskurs Wirtschaftsfranzösisch A1
- Französisch: Sprachpraxis A2: Einführungskurs Wirtschaftsfranzösisch A2
- Italienisch: Sprachpraxis A1: Einführungskurs Wirtschaftsitalienisch A1
- Italienisch: Sprachpraxis A2: Einführungskurs Wirtschaftsitalienisch A2
- Spanisch: Sprachpraxis A1: Einführungskurs Wirtschaftsspanisch A1

- Spanisch: Sprachpraxis A2: Einführungskurs Wirtschaftsspanisch A2
- Deutsch als Fremdsprache intensiv 1 (A1)
- Deutsch als Fremdsprache intensiv 2 (A2)
- Deutsch als Fremdsprache: Sprachpraxis A2: Phonetik 1

Details, in particular the foreign languages and modules available for selection as well as the module examinations and partial module examinations to be taken in each case, are specified in the examination regulations for practical language modules at the Otto-Friedrich University of Bamberg.

Deutsch: In der Modulgruppe MAEES2 „Foreign Business Language“ sind Module einer Wirtschaftsfremdsprache oder Module einer darauf hinführenden Fremdsprache im Umfang von insgesamt 12 ECTS-Punkten zu erbringen.

In der Wirtschaftsfremdsprache sind zwei Module aus *einer* der folgenden Wirtschaftsfremdsprachen zu wählen:

- Wirtschaftsenglisch (12 ECTS), mit Ausnahme des Moduls "Wirtschaftsenglisch 1"!
- Wirtschaftsfranzösisch (12 ECTS)
- Wirtschaftsitalienisch (12 ECTS)
- Wirtschaftsspanisch (12 ECTS)

Wirtschaftsdeutsch kann ausschließlich von Studierenden, die ihre Hochschulzugangsberechtigung nicht in deutscher Sprache erworben haben, gewählt werden, soweit der Prüfungsausschuss (Herr Dr. Felix Stübben) einem diesbezüglichen Antrag zugestimmt hat.

Studierende, die nicht über die in den wirtschaftsfremdsprachlichen Modulen erforderlichen allgemeinsprachlichen Kompetenzen verfügen, wird, mit Ausnahme von Wirtschaftsenglisch, ermöglicht, Module in *einer* darauf hinführenden Fremdsprache zu absolvieren, soweit der Prüfungsausschuss (Herr Dr. Felix Stübben) einem diesbezüglichen Antrag zugestimmt hat. Folgende Module in einer hinführenden Fremdsprache sind wählbar:

- Französisch: Sprachpraxis A1: Einführungskurs Wirtschaftsfranzösisch A1
- Französisch: Sprachpraxis A2: Einführungskurs Wirtschaftsfranzösisch A2
- Italienisch: Sprachpraxis A1: Einführungskurs Wirtschaftsitalienisch A1
- Italienisch: Sprachpraxis A2: Einführungskurs Wirtschaftsitalienisch A2
- Spanisch: Sprachpraxis A1: Einführungskurs Wirtschaftsspanisch A1
- Spanisch: Sprachpraxis A2: Einführungskurs Wirtschaftsspanisch A2
- Deutsch als Fremdsprache intensiv 1 (A1)
- Deutsch als Fremdsprache intensiv 2 (A2)
- Deutsch als Fremdsprache: Sprachpraxis A2: Phonetik 1

Einzelheiten, insbesondere die zur Auswahl stehenden Wirtschaftsfremdsprachen und Module sowie die jeweils abzulegenden Modulprüfungen und Modulteilprüfungen sind in der Prüfungsordnung für sprachpraktische Module der Otto-Friedrich-Universität Bamberg festgelegt.

c) MAEES Specialisation (Wahlpflichtbereich) ECTS: 60

English: The compulsory elective area "Specialisation" consists of the module groups MAEES3 to MAEES11. A total of 60 ECTS points must be obtained in this area. Modules from the module groups MAEES3 to MAEES10 amounting to at least 36 ECTS points must be completed. To achieve the

remaining 24 ECTS points, any other modules from the module groups MAEES3 to MAEES11 must be selected.

Deutsch: Der Wahlpflichtbereich „Spezialisierung“ besteht aus den Modulgruppen MAEES3 bis MAEES11. In diesem Bereich sind insgesamt 60 ECTS-Punkte zu erbringen. Hierbei sind aus den Modulgruppen MAEES3 bis MAEES10 Module im Umfang von mindestens 36 ECTS-Punkten zu absolvieren. Zum Erreichen der verbleibenden 24 ECTS-Punkte sind beliebige weitere Module aus den Modulgruppen MAEES3 bis MAEES11 zu wählen.

aa) MAEES3 International Economics (Modulgruppe) ECTS: 0 - 24

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MAEES3.3: International Economics 3 (6 ECTS, every summer semester).....	22
MAEES3.4: International Economics 4 (6 ECTS, every winter semester).....	24

bb) MAEES4 Empirical Microeconomics (Modulgruppe) ECTS: 0 - 24

MAEES4.1: Empirical Microeconomics 1 (6 ECTS, every winter semester).....	25
MAEES4.2: Empirical Microeconomics 2 (6 ECTS, every summer semester).....	26
MAEES4.3: Empirical Microeconomics 3 (6 ECTS, every semester).....	27
MAEES4.4: Empirical Microeconomics 4 (6 ECTS, every winter semester).....	28

cc) MAEES5 Public Economics (Modulgruppe) ECTS: 0 - 24

MAEES5.1: Public Economics 1 (6 ECTS, every winter semester).....	30
MAEES5.2: Public Economics 2 (6 ECTS, every winter semester).....	32
MAEES5.3: Public Economics 3 (6 ECTS, every summer semester).....	33
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dd) MAEES6 Economic Policy (Modulgruppe) ECTS: 0 - 24

MAEES6.1: Economic Policy 1 (6 ECTS, every winter semester).....	37
MAEES6.2: Economic Policy 2 (6 ECTS, every summer semester).....	39
MAEES6.3: Economic Policy 3 (6 ECTS, every summer semester).....	41
MAEES6.4: Economic Policy 4 (6 ECTS, every winter semester).....	43

ee) MAEES7 Economic Theory (Modulgruppe) ECTS: 0 - 24

MAEES7.1: Economic Theory 1 (6 ECTS, every summer semester).....	45
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MAEES7.2: Economic Theory 2 (6 ECTS, every winter semester).....	47
MAEES7.3: Economic Theory 3 (6 ECTS, every summer semester).....	49
MAEES7.4: Economic Theory 4 (6 ECTS, every winter semester).....	50

ff) MAEES8 Macroeconomics and International Finance (Modulgruppe) ECTS: 0 - 24

MAEES8.1: Macroeconomics and International Finance 1 (6 ECTS, every semester).....	51
MAEES8.2: Macroeconomics and International Finance 2 (6 ECTS, every winter semester).....	52
MAEES8.3: Macroeconomics and International Finance 3 (6 ECTS, every summer semester).....	53
MAEES8.4: Macroeconomics and International Finance 4 (6 ECTS, every semester).....	54

gg) MAEES9 Labour, Regional and Migration Studies (Modulgruppe) ECTS: 0 - 12

MAEES9.1: Regional and Labour Studies (6 ECTS, every summer semester).....	55
MAEES9.2: Migration Studies (6 ECTS, every winter semester).....	56

hh) MAEES10 Statistics and Econometrics (Modulgruppe) ECTS: 0 - 18

WiMa-M-002: Zeitreihenanalyse (6 ECTS, annually).....	58
SuStat-026-M: Monte Carlo Methods (6 ECTS, every winter semester).....	59
SuStat-011-M: Survey Sampling Theory (6 ECTS, every winter semester).....	61

ii) MAEES11 Interdisciplinary Specialisation (Modulgruppe) ECTS: 0 - 24

English: In the module group MAEES11 "Interdisciplinary Specialisation", modules from the range of other degree programmes can be completed. The examination and study regulations of the degree programme to which the modules are assigned apply to these modules. The following modules can be selected:

- Business administration modules of the Master's degree programme in Business Administration,
- business administration modules of the Master's programme in International Business Administration,
- political science modules of the Master's programme in Political Science,
- sociological modules of the Master's programme in Sociology,
- statistical modules of the Master's programme Survey Statistics and Data Analysis that are not already part of these examination regulations,
- Master's modules in History of Economics and Innovation or Economic and Social History
- the compulsory elective module "SuStat-014-M Advanced Econometrics" insofar as this has not already been completed in the module group MAEES1 "Basic Programme in Economics and Methodology",
- modules of the module group MAEES2 not yet taken in accordance with the regulations mentioned there in the amount of up to 12 ECTS credits, whereby basic modules of a language can

only be selected if the modules of this foreign business language have not yet been selected in the module group MAEES2 as well as

- Master's modules in law from the Faculty of Social and Economic Sciences.

Upon application to the examination board, further modules of subject-relevant areas of other faculties can be selected. For example, modules from the Master's programme in Business Information Systems are considered to be relevant.

Deutsch: In der Modulgruppe MAEES11 „Interdisziplinäre Spezialisierung“ können Module aus dem Angebot anderer Studiengänge absolviert werden. Für diese Module gelten die Prüfungs- und Studienordnungen des Studiengangs, dem die Module jeweils zugeordnet sind. Folgende Module sind wählbar:

- Betriebswirtschaftliche Module des Masterstudiengangs Betriebswirtschaftslehre,
- betriebswirtschaftliche Module des Masterstudiengangs Internationale Betriebswirtschaftslehre,
- politikwissenschaftliche Module des Masterstudiengangs Politikwissenschaft,
- soziologische Module des Masterstudiengangs Soziologie,
- statistische Module des Masterstudiengangs Survey-Statistik and Data Analysis, die nicht bereits Bestandteil dieser Prüfungsordnung sind,
- Mastermodule der Wirtschafts- und Innovationsgeschichte bzw. der Wirtschafts- und Sozialgeschichte
- das Wahlpflichtmodul „SuStat-014-M Fortgeschrittene Ökonometrie“ soweit dieses nicht bereits in der Modulgruppe MAEES1 „Volkswirtschaftliches und methodisches Grundprogramm“ absolviert wurde,
- noch nicht belegte Module der Modulgruppe MAEES2 gemäß den dort genannten Regelungen im Umfang von bis zu 12 ECTS-Punkten, wobei hinführende Sprachmodule nur gewählt werden können, soweit die Module dieser Wirtschaftsfremdsprache noch nicht in der Modulgruppe MAEES2 gewählt wurden sowie
- rechtswissenschaftliche Mastermodule der Fakultät Sozial- und Wirtschaftswissenschaften.

Auf Antrag an den Prüfungsausschuss können weitere Module fachlich einschlägiger Bereiche anderer Fakultäten gewählt werden. Als fachlich einschlägig gelten beispielsweise Module aus dem Masterstudiengang Wirtschaftsinformatik.

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MA WiGe 1b: MA Wirtschaftsgeschichte 1b (6 ECTS, annually).....	64
MA WiGe 2a: MA Wirtschaftsgeschichte 2a (6 ECTS, annually).....	66
MA WiGe 2b: MA Wirtschaftsgeschichte 2b (6 ECTS, annually).....	68
MA WiGe 3: MA Wirtschaftsgeschichte 3 (6 ECTS, annually).....	70
MA WiGe 4: MA Wirtschaftsgeschichte 4 (6 ECTS, annually).....	71

d) MAEES12 Master Thesis (Pflichtbereich) ECTS: 24

English:In the module group MAEES12 "Master Thesis", one of the modules MAEES12.1 Master Thesis with Colloquium or MAEES12.2 Master Thesis with Disputation with 24 ECTS credits must be completed. The processing time is five months.

Admission to the Master Thesis requires that at least 60 ECTS points have been acquired. Registration, preparation and/or submission of the thesis during a leave of absence is generally not possible. Exceptions to this are leaves of absence for periods which, according to Art. 48 Para. 4 BayHSchG, correspond to the protection periods according to the Maternity Protection Act, parental leave or nursing leave.

The thesis must be submitted within the maximum duration of study!

Supervision is usually provided by a representative of EES/VWL in Bamberg and contact is made by the student. However, upon application to the EES examination board, the Master Thesis may also be written by a Bamberg representative outside the economics department (business administration, sociology, politics, etc.). For this purpose, the student must obtain the confirmation of supervision from the "external" supervisor and enclose this with the application to the Chair of the EES Examination Committee (pa.ma-ees@uni-bamberg.de). In any case, the Master Thesis must be supervised by a Bamberg subject representative!

Deutsch: In der Modulgruppe MAEES12 Masterarbeit ist das Modul MAEES12.1 Master Thesis with Colloquium oder MAEES12.2 Master Thesis with Disputation mit 24 ECTS-Punkten zu erbringen. Die Bearbeitungszeit beträgt fünf Monate.

Die Zulassung zur Masterarbeit setzt voraus, dass mindestens 60 ECTS-Punkte erworben wurden.

Eine Anmeldung, Anfertigung und/oder Abgabe der Masterarbeit während einer Beurlaubung ist grundsätzlich nicht möglich. Ausgenommen hiervon sind Beurlaubungen für Zeiten, die gemäß Art. 48 Abs. 4 BayHSchG den Schutzfristen nach dem Mutterschutzgesetz, der Elternzeit oder der Pflegezeit entsprechen.

Die Abgabe der Masterarbeit hat innerhalb der Höchststudiendauer zu erfolgen!

Die Betreuung erfolgt in der Regel durch einen Fachvertreter der VWL in Bamberg und die Kontaktaufnahme erfolgt durch den Studierenden. Auf Antrag an den Prüfungsausschussvorsitzenden EES kann die Masterarbeit jedoch u.U. auch bei einem Bamberger Fachvertreter außerhalb der Fachgruppe VWL (BWL, Soziologie, Politik etc.) angefertigt werden. Hierzu muss sich der Studierende die Betreuungszusage des "externen" Betreuers einholen und diese dem Antrag an den Prüfungsausschussvorsitzenden EES (pa.ma-ees@uni-bamberg.de) beilegen. Die Masterarbeit muss in jedem Fall von einem Bamberger Fachvertreter betreut werden!

MAEES12.1: Master Thesis with Colloquium (24 ECTS, every semester).....72

MAEES12.2: Master Thesis with Disputation (24 ECTS, every semester).....73

Module MAEES1.1 Advanced Microeconomics <i>Advanced Microeconomics</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Florian Herold further responsible : wird im Sommersemester von Prof. Sahn angeboten		
Contents: The course provides an introduction into modern microeconomic theory. Students will be trained in applications of the standard microeconomic toolkit at an advanced level of mathematical and conceptual rigor. Central goal of the course is the mastery of key techniques of microeconomic analysis such as the analysis of individual choice with and with-out risk, the computation of equilibria in exchange or production economies and games. Special emphasis is given to the economics of information. While the course is mainly foundational, applications highlight strategic aspects relevant for European economic policy. Lectures are in English. Topics <ul style="list-style-type: none"> • Axiomatic choice • Intertemporal choice and choice under risk • General equilibrium • Game Theory • Information Economics 		
Learning outcomes: Students will be trained in applications of the standard microeconomic toolkit at an advanced level of mathematical and conceptual rigor. Central goal of the course is the mastery of key techniques of microeconomic analysis such as the analysis of individual choice with and without risk, the computation of equilibria in exchange or production economies and games.		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I and II, Wirtschaftsmathematik: Lineare Algebra and Analysis (all bachelor) Introduction into basics of microeconomics at the level of Mikoökonomik I and II (BA) at Bamberg University (e.g., PINDYCK, R.S. AND D.L. RUBINFELD, 2005, Microeconomics, 6e, Pearson Education International or VARIAN, 2006, Intermediate Microeconomics, VARIAN, HAL R. (2006): Intermediate Microeconomics: A Modern Approach, Sixth Edition. New York: Norton.) and solid mastery of math at least at the level of Mathematik für Wirtschaftswissenschaftler I and II (BA) at Bamberg University.		Admission requirements: none
Frequency: every semester	Recommended semester: from 1.	Minimal Duration of the Module: 1 Semester
Module Units		
Advanced Microeconomics Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Florian Herold		6,00 Weekly Contact Hours

<p>Language: English Frequency: every semester</p> <hr/> <p>Contents: The course provides an introduction into modern microeconomic theory. Special emphasis is given to the economics of information. While the course is mainly foundational, applications highlight strategic aspects relevant for European economic policy.</p> <p>Topics</p> <ul style="list-style-type: none"> • Axiomatic choice • Intertemporal choice and choice under risk • General equilibrium • Game Theory • Information Economics <hr/> <p>Literature: The course content is covered by any standard textbook of advanced microeconomics. A recommended reference is: JEHLE, RENY, Advanced Microeconomic Theory (International Ed.), Second Edition, 2001.</p>	
<p>Examination Written examination / Duration of Examination: 1 hours</p>	

Module MAEES1.2 Advanced Macroeconomics <i>Advanced Macroeconomics</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Christian Proaño		
Contents: see below		
Learning outcomes: The objective of the course is to equip students with a critical understanding of contemporary macroeconomic issues and to provide them with a methodological toolkit suitable for understanding the dynamics of complex systems.		
prerequisites for the module: none		
Recommended prior knowledge: Makroökonomik I & II (Bachelor)		Admission requirements: none
Frequency: every semester	Recommended semester: 1.	Minimal Duration of the Module: 1 Semester

Module Units	
<p>Advanced Macroeconomics Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Christian Proaño Language: English Frequency: every semester</p> <hr/> <p>Learning outcome: see above</p> <hr/> <p>Contents: Macroeconomic analysis is primarily concerned with two issues: (i) developing positive models in order to understand the dynamics of key macroeconomic variables such as output, employment, unemployment, inflation, interest rates, etc.; and (ii) deriving normative prescriptions for macroeconomic policy-making, in particular regarding the proper design of fiscal and monetary policies. The course begins with a discussion of empirical facts regarding business cycles and growth. The second part of the course deals in more detail with several macroeconomic models based on intertemporal optimization along the New Neoclassical Consensus approach. The third part of the course focuses in contrast on the caveats of this theoretical framework, as well as on alternative modeling approaches.</p> <hr/> <p>Literature:</p> <ul style="list-style-type: none"> o Wickens, M. (2012), <i>Macroeconomic Theory. A Dynamic General Equilibrium Approach</i>. Second Edition. Princeton: Princeton University Press. o Snowdon, B. and Vane, H. R. (2005), <i>Modern Macroeconomics. Its Origins, Development and Current State</i>. Cheltenham, UK: Edward Elgar. 	4,00 Weekly Contact Hours
Examination	

Written examination / Duration of Examination: 60 minutes	
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Module SuStat-014-M Advanced Econometrics <i>Advanced Econometrics</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Timo Schmid		
Contents: This module covers modern concepts in Econometrics predominantly for cross-sectional data, with a particular focus on Generalized Linear Modeling (GLM) using Maximum Likelihood estimation methods.		
Learning outcomes: Upon completion of the module students are familiar with the concepts for modeling response variables of various measurement levels using statistical distributions from the exponential family, and with the corresponding implementation in R, as well as with the interpretation of results and underlying assumptions.		
prerequisites for the module: None		
Recommended prior knowledge: Module Basic Econometrics (SuStat-013-M) - Module Statistics III (SuStat-036-M) -		Admission requirements: None
Frequency: every summer semester	Recommended semester: 2.	Minimal Duration of the Module: 1 Semester

Module Units	
Advanced Econometrics Mode of Delivery: Lectures, Practicals Language: English Frequency: every summer semester	4,00 Weekly Contact Hours

Examination Written examination / Duration of Examination: 60 minutes Description: Examination covers questions and problems with respect to the module contents.	
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Module SuStat-013-M Introduction to Econometrics <i>Introduction to Econometrics</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Timo Schmid		
Contents: We cover the fundamental concepts of modern Econometrics, with a particular focus on linear regression modeling for continuous response variables using ordinary least squares (OLS) estimation.		
Learning outcomes: Upon completion of the module students should be able to identify and apply suitable regression models to particular data situations, and to interpret corresponding results. Students should also be able to implement these methods using R. Particular emphasis is given to linear regression models and the underlying Gauss-Markov assumptions.		
prerequisites for the module: None		
Recommended prior knowledge: Module Statistics I (Stat-B-01) - Module Statistics II (Stat-B-02) -		Admission requirements: None
Frequency: every winter semester	Recommended semester: from 1.	Minimal Duration of the Module: 1 Semester
Module Units		
Introduction to Econometrics Mode of Delivery: Lectures, Practicals Language: English Frequency: every winter semester		4,00 Weekly Contact Hours
Examination Written examination / Duration of Examination: 90 minutes Description: Examination covers questions and problems with respect to the module contents.		

Module Mathe-M-01 Advanced Mathematical Methods		6 ECTS / 180 h
<i>Advanced Mathematical Methods</i>		
(since WS23/24)		
Person responsible for module: Prof. Dr. Anne Leucht		
Contents:		
1. Complex numbers		
2. Difference equations: linear difference equations (first and higher order), non-linear first order difference equations, systems of first order difference equations		
3. Static and dynamic optimization under equality constraints (dynamic: finite and infinite horizon in discrete time)		
4. Differential equations: linear differential equations, non-linear separable differential equations, systems of linear first order differential equations		
Learning outcomes:		
The course enables students to analyze economic dynamic systems. The students gain expertise in working out advanced mathematical problems independently.		
prerequisites for the module:		
none		
Recommended prior knowledge:		Admission requirements:
basic knowledge in calculus and linear algebra as typically taught in Bachelor courses in economics		none
Frequency: every winter semester	Recommended semester:	Minimal Duration of the Module:
		1 Semester

Module Units	
Advanced Mathematical Methods Mode of Delivery: Lectures, Practicals Language: English Frequency: every winter semester	3,00 Weekly Contact Hours
Literature: <ul style="list-style-type: none"> • Hamilton, J.D. (1994), Time Series Analysis, Princeton University Press (Princeton, New Jersey). • Christensen, B.J. und Kiefer, N. M. (2009), Economic Modeling and Inference, Princeton University Press (Princeton, New Jersey). • Chiang, A.C (1984), Fundamental Methods of Mathematical Economics, McGraw-Hill (New York). • Chiang, A.C. (1992), Dynamic Optimization, McGraw-Hill (NewYork). • Dobbener, R. (1998), Analysis - Studienbuch für Ökonomen, 2. Auflage, Oldenbourg (München). • Feichtinger, G. und Hartl, R.F. (1986), Optimale Kontrolle ökonomischer Prozesse, de Gruyter (Berlin). • Sydsaeter, K., Hammond, P., Seierstad, A. und Strom, A. (2005), Further Mathematics for Economic Analysis, Pearson (Harlow). • Tu, P.N.V. (1994), Dynamical Systems, Springer (Berlin). 	

Examination	
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Written examination / Duration of Examination: 60 minutes	
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Module MAEES3.1 International Economics 1 <i>International Economics 1</i>		6 ECTS / 180 h
(since WS23/24) Person responsible for module: Prof. Dr. Mishael Milakovic		
Learning outcomes: The main purpose of the course is to familiarize students with the basic notion of synthetic replication in financial markets, and to carefully explain how this replication leads to new challenges for central bank policy and financial regulation. The importance of "cheap liquidity" in financial crises is emphasized throughout the course.		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I & II, Methoden der Statistik I & II (all bachelor)		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 3.	Minimal Duration of the Module: 1 Semester

Module Units	
Financial Engineering and Systemic Risk Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Mishael Milakovic Language: English Frequency: every winter semester	4,00 Weekly Contact Hours
Contents: This course deals with the risks that emanate from modern financial markets and their regulation. The central question is how these risks, their regulation, and the institutional framework itself can actually contribute to the creation of "systemic" risk, resulting in historically recurring economy-wide crises. We will consider whether or how banks' off- balance sheet transactions can circumvent the national regulatory and taxation frameworks, and what the implications for the respective national central banks are in their function as so-called lenders of last resort. A second important aspect of this course deals with financial innovation in the syndication of loans or other debt obligations (ABS, MBS, CDO, CLO), and their role in the recent crisis.	
Literature: S. NEFTCI, Principles of Financial Engineering, Elsevier AP, 2008 (2nd edition). C.M. REINHART AND K.S. ROGOFF, This Time Is Different, Princeton UP, 2009.	
Examination Written examination / Duration of Examination: 1 hours	

Module MAEES3.2 International Economics 2 <i>International Economics 2</i>		6 ECTS / 180 h
(since WS25/26) Person responsible for module: Prof. Dr. Mishael Milakovic		
Learning outcomes: The objectives of the course are to familiarize students with the theories and measurement of economic inequality, and to equip them with the methodological skills that are necessary for both an informed design and a critical analysis of policy recommendations. Lectures are in English.		
prerequisites for the module: none		
Recommended prior knowledge: Methoden der Statistik I & II (Bachelor)		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 4.	Minimal Duration of the Module: 1 Semester

Module Units**The Economics of Inequality****Mode of Delivery:****Lecturers:** Prof. Dr. Mishael Milakovic, Dr. Jan Schulz-Gebhard**Language:** English**Frequency:** every summer semester**4,00 Weekly Contact Hours****Learning outcome:**

The objectives of the course are to familiarize students with the theories and measurement of economic inequality, and to equip them with the methodological skills that are necessary for both an informed design and a critical analysis of policy recommendations. Lectures are in English.

Contents:

For decades, the economics profession was largely of the opinion that economic inequality is not a problem of particular interest and, if anything, represents a necessary condition for economic efficiency. Piketty's book on "Capital in the 21st Century" and its wide reception in and outside of academia, however, testify to the revived interest in this topic, particularly with respect to the inequalities in personal income or wealth, both across and within countries. The three main goals of the course are thus to familiarize students (i) with the major strands of economic theory that address the inequalities in the distribution of income or wealth, (ii) with different concepts of measuring inequality, and (iii) with international empirical data of such measurements. Irrespective of whether a reduction in inequality is politically desired or not, students should understand the fundamental challenges that policy design will necessarily face, especially in light of the considerable historical fluctuations in inequality.

Literature:

A detailed syllabus will be distributed in class. Leading up to the course, interested students should browse (and ideally read) the seminal works by James Meade (*Efficiency, Equality, and the Ownership of Property*, first published in

1964, but also available as a Routledge 2013 reprint) and by Branko Milanovic (<i>Visions of Inequality</i> available in digital form at the university library). Thomas Piketty's book <i>Capital in the 21st Century</i> , first published in English in 2014, is also a useful starting point.	
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Examination

Coursework Assignment with presentation / Duration of Examination: 30 minutes Duration of Coursework: 8 weeks	
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Module MAEES3.3 International Economics 3 <i>International Economics 3</i>		6 ECTS / 180 h
(since SS24) Person responsible for module: Prof. Dr. Mishael Milakovic		
Learning outcomes: The main purpose of the course is to make students aware of the different strands of economic thought in international macroeconomics, and to emphasize how they arrive at very different policy prescriptions regarding balance of payments equilibrium, and monetary and fiscal policy issues in general as witnessed, for instance, in the current debate on the feasibility of a monetary union in the European Union. In particular, students should be able to understand why various pressure groups favor certain models or are strictly opposed to others, and where the various models meet their empirical limitations.		
prerequisites for the module: none		
Recommended prior knowledge: Mikro- and Makroökonomik I & II (bachelor)		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 2.	Minimal Duration of the Module: 1 Semester
Module Units		
International Monetary Economics Mode of Delivery: Lectures Lecturers: Dr. Philipp Mundt Language: English Frequency: every summer semester		2,00 Weekly Contact Hours
Contents: This course deals with the two most important traditional models of exchange rate determination and open economy macroeconomics, which start from different pre-analytical visions and thus arrive at very distinct open economy policy prescriptions. We start from basic concepts of exchange rate determination, like purchasing power parity and (un)covered interest rate parity, and review the basic accounting principles underlying the balance of payments. Then we move on to standard Keynesian models and to a variety of monetarist approaches to the balance of payments. Topics include the following: <ul style="list-style-type: none"> • Fixed and floating exchange rate regimes in Mundell-Fleming-type models • Monetarist flex- and sticky-price approaches to the balance of payments • Exchange rate 'overshooting' • Portfolio balance approach to exchange rate determination • Foreign exchange market efficiency and the 'risk premium' 		
Literature: K. PILBEAM, International Finance, Palgrave Macmillan, current edition. L. COPELAND, Exchange Rates and International Finance, Pearson, current edition.		

Examination

Written examination / Duration of Examination: 1 hours

Module MAEES3.4 International Economics 4 <i>International Economics 4</i>		6 ECTS / 180 h
(since WS23/24) Person responsible for module: Prof. Dr. Mishael Milakovic		
Learning outcomes: The objective of the course is to equip students with a critical understanding of contemporary macroeconomic theory, and to provide them with a methodological toolkit suitable for understanding the dynamics of complex systems. Lectures are in English.		
prerequisites for the module: none		
Recommended prior knowledge: Mikro- and Makroökonomik I & II (bachelor)		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 3.	Minimal Duration of the Module: 1 Semester
Module Units		
Complexity and Distribution in Economics Mode of Delivery: Lectures, Practicals Lecturers: Prof. Dr. Mishael Milakovic Language: English Frequency: every winter semester		4,00 Weekly Contact Hours
Learning outcome: The objective of the course is to equip students with a critical understanding of contemporary macroeconomic theory, and to provide them with a methodological toolkit suitable for understanding the dynamics of complex systems. Lectures are in English.		
Contents: This course deals with alternative approaches to the usual equilibrium concepts in economics. As it turns out, many economic and financial variables of interest exhibit robust distributional regularities across space and time, but have received at best minor attention in the literature. We will consider recent developments in statistical equilibrium theory, which is particularly suitable for studying problems that arise from the aggregation of many agents. Ideally, students will conduct their own data exploration exercises, drawing on examples from financial markets, industrial dynamics, and the distribution of wealth. To look for distributional regularities in macroeconomic variables within or across countries.		
Literature: A syllabus will be distributed in class.		
Examination Written examination / Duration of Examination: 1 hours		

Module MAEES4.1 Empirical Microeconomics 1 <i>Empirical Microeconomics 1</i>		6 ECTS / 180 h
(since WS25/26) Person responsible for module: Prof. Dr. Guido Heineck		
Learning outcomes: tba		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I & II, Methoden der Empirischen Mikroökonomik (all Bachelor)		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 1.	Minimal Duration of the Module: 1 Semester
Module Units		
Health Economics Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Guido Heineck Language: English Frequency: every winter semester		4,00 Weekly Contact Hours
Contents: tba		
Literature: tba		
Examination Written examination / Duration of Examination: 1 hours		

Module MAEES4.2 Empirical Microeconomics 2 <i>Empirical Microeconomics 2</i>		6 ECTS / 180 h
(since SS25) Person responsible for module: Prof. Dr. Guido Heineck		
Learning outcomes: This course introduces into the empirical methods that are typically applied to identify causal effects rather than correlation only.		
prerequisites for the module: none		
Recommended prior knowledge: Microeconomics of Education (Master), Methoden der Empirischen Mikroökonomik (Bachelor)		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 2.	Minimal Duration of the Module: 1 Semester
Module Units		
Causal Inference and Policy Evaluation Mode of Delivery: Lectures Lecturers: Prof. Dr. Guido Heineck Language: English Frequency: every summer semester		2,00 Weekly Contact Hours
Examination Written examination / Duration of Examination: 1 hours		

Module MAEES4.3 Empirical Microeconomics 3 <i>Empirical Microeconomics 3</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Guido Heineck		
Learning outcomes: Students will be introduced into topics in gender economics. The main aim of this course is to familiarize students with the literature on gender economics, while equip them with skills that allow them to read, discuss, and critically reflect on an empirical paper that uses micro-econometric techniques.		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I, Methoden der Empirischen Mikroökonomik (both Bachelor)		Admission requirements: none
Frequency: every semester	Recommended semester: from 1.	Minimal Duration of the Module: 1 Semester

Module Units	
Topics in Gender Economics Mode of Delivery: Seminar Lecturers: Prof. Dr. Guido Heineck Language: English Frequency: every semester	2,00 Weekly Contact Hours
Contents: The course will include topics such as: - Causes and origins of gender inequality - Gender wage gap, work conditions, female labour force participation - Discrimination, sexual harassment - Reproductive rights, women's health	
Literature: GOLDIN, C. (2021). <i>Career and Family: Women's Century-Long Journey toward Equity</i> . Princeton University Press. ANGRIST, JD, and J-S PISCHKE (2015). <i>Mastering Metrics: The Path from Cause to Effect</i> , Princeton University Press. Further literature and respective paper will be provided in the course.	
Examination Coursework Assignment with presentation / Duration of Examination: 30 minutes Duration of Coursework: 8 weeks	

Module MAEES4.4 Empirical Microeconomics 4 <i>Empirical Microeconomics 4</i>		6 ECTS / 180 h
(since WS25/26) Person responsible for module: Prof. Dr. Guido Heineck		
Contents: Will not be offered in winter semester 2025/26!		
Learning outcomes: This seminar course focuses on work from an interdisciplinary research strand that combines methods from economics and psychology and aims at understanding the foundation, development and social and economic outcomes of cognitive skills and personality (or non-cognitive skills or socio-emotional skills). Students will use survey data and run empirical analyses to examine associations between individuals' personality and different outcomes.		
prerequisites for the module: none		
Recommended prior knowledge: Methoden der Empirischen Mikroökonomik (Bachelor)		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 3.	Minimal Duration of the Module: 1 Semester

Module Units**Personality Psychology and Economics****Mode of Delivery:** Seminar**Lecturers:** Prof. Dr. Guido Heineck**Language:** English**Frequency:** every winter semester**2,00 Weekly Contact Hours****Contents:**

Will not be offered in winter semester 2025/26!

Students will work on topics including for example:

- Measurement of personality and personality traits
- Economic, biological, psychological and environmental determinants of skills
- Economic and social consequences of personality and personality traits
- Policy interventions to enhance skill formation, particularly during early childhood

Literature:

ALMLUND, MATHILDE, DUCKWORTH, ANGELA LEE, HECKMAN, JAMES J. und TIM KAUTZ (2011): Personality Psychology and Economics. In: Hanushek, Eric, Wössmann, Ludger, und Stephen Machin (eds.): Handbook of the Economics of Education, Volume 4. Amsterdam: Elsevier, 1-181.

BORGHANS, LEX, DUCKWORTH, ANGELA, HECKMAN, JAMES J. und BASTER WEEL (2008): The economics and psychology of personality traits, Journal of Human Resources 43(4), 972-1059.

CUNHA, FLAVIO und HECKMAN, JAMES J. (2007): The Technology of Skill Formation. American Economic Review, 97(2), 31-47.

Further literature will be announced in class.	
Examination Coursework Assignment with presentation / Duration of Examination: 30 minutes Duration of Coursework: 8 weeks	

Module MAEES5.1 Public Economics 1 <i>Public Economics 1</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Florian Herold		
Learning outcomes: The main purpose of the course to provide students with a toolbox of formal models that allow them to structure and analyze political processes and their influence on public policy, in particular when applied to the European Union.		
Remark: WIRD AUSNAHMSWEISE IM SS 26 ANGEBOTEN		
prerequisites for the module: none		
Recommended prior knowledge: Advanced Micro- and Macroeconomics		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 3.	Minimal Duration of the Module: 1 Semester

Module Units**Political Economics****Mode of Delivery:** Lectures and Practicals**Lecturers:** Prof. Dr. Florian Herold**Language:** English**Frequency:** every winter semester**4,00 Weekly Contact Hours****Contents:****THIS SEMINAR WILL BE HELD IN SUMMER SEMESTER 26**

This course focuses on modeling and analyzing the political process and how it influences public choice of policies. Applications focus on the European Union. The course introduces the formal tools to analyze the problem of aggregating preferences and electoral competition and methods from information economics to understand which policy intervention a welfare maximizing state should ideally undertake. Then we consider political constraints and how the real distribution of powers will distort public policy. In order to understand European public policy a deep understanding of these political constraints is essential.

Topics include the following:

- The Problem of Aggregating Preferences
- Electoral Competition (theory and examples from Europe)
- Public good provision under electoral competition
- Agency, checks and balances, and application to the EU
- Dynamic Policy Problems and problems of public debt in a common currency area

Literature:

T.Persson and G.Tabellini, Political Economics – Explaining Economic Policy, MIT Press (further literature will be announced in class).

<p>Additional Literature:</p> <p>D. Austen-Smith and J.S. Banks, Positive Political Theory I+II, University of Michigan Press</p> <p>T. Besley, Principled Agents? The Political Economy of Good Government, Oxford University Press</p>	
<p>Examination</p> <p>Written examination / Duration of Examination: 1 hours</p>	

Module MAEES5.2 Public Economics 2 <i>Public Economics 2</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Florian Herold		
Learning outcomes: Participants will be introduced into current research topics related to public economics applicable to fiscal policy problems of the European Union at an advanced formal level.		
Remark: WIRD NICHT IM SS 26 ANGEBOTEN // NOT IN SUMMER SEMESTER 26!		
prerequisites for the module: none		
Recommended prior knowledge: Advanced Micro- and Macroeconomics		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 4.	Minimal Duration of the Module: 1 Semester
Module Units		
Advanced Topics in Public Economics Mode of Delivery: Seminar Lecturers: Prof. Dr. Florian Herold Language: English Frequency: every winter semester		4,00 Weekly Contact Hours
Contents: THIS SEMINAR IS NOT AVAILABLE IN SUMMER SEMESTER 26 In this seminar we cover current advanced topics in public economics and political economy. Tentative topics may include <ul style="list-style-type: none"> • Algorithms, Mechanism Design and Implications for Public Economics • Electoral Rules and Electoral Competitions • Institutions and Accountability: Theory and Applications to the European Union • Dynamic Policy Problems • Public Debt, Financial and Debt crises The precise list of topics varies and is announced at the beginning of the semester. Participants will be introduced into current research topics related to public economics at an advanced formal level. The seminar is in English.		
Literature: To be announced in class		
Examination Coursework Assignment with presentation / Duration of Examination: 30 minutes Duration of Coursework: 8 weeks		

Module MAEES5.3 Public Economics 3 <i>Public Economics 3</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Florian Herold		
Learning outcomes: Students will learn how to utilize these models and at the end of the course should be able to apply them to policy question of the European Union and to different topics in economics, political science, business, sociology and beyond.		
Remark: WIRD NICHT IM SS 26 ANGEBOTEN // NOT IN SUMMER SEMESTER 26!		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I and II (both bachelor). Basic knowledge of microeconomics and game theory (at the level of Microeconomics II) is needed to follow the course.		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 2.	Minimal Duration of the Module: 1 Semester

Module Units	
Evolution, Learning, and Behavior Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Florian Herold Language: English Frequency: every summer semester	4,00 Weekly Contact Hours
Contents: WILL NOT BE HELD IN SUMMER SEMESTER 26 <p>The course introduces different topics related to behavioural economics and bounded rational learning how to act strategically. We start with an introduction to techniques from evolutionary game theory which can be used to investigate the evolutionary foundations of preferences and behaviour as well as to model learning processes. We will further discuss empirically observed human biases, how to model them and their evolutionary foundations. Applications are in.</p> <p>Topics</p> <ul style="list-style-type: none"> • Introduction to evolutionary game theory • Evolution and Learning • Behavioral aspects of human decision making • Bounded rationality and limited attention • Social preferences and their evolutionary foundation 	
Literature: Weibull, Evolutionary Game Theory, MIT Press 1998	

Easley and Kleinberg (2010), Networks, Crowds, and Markets, Cambridge University press (online: http://www.cs.cornell.edu/home/kleinber/networks-book/). Further Literature will be announced in class.	
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Examination	
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Written examination / Duration of Examination: 1 hours	
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Module MAEES5.4 Public Economics 4 <i>Public Economics 4</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Florian Herold		
Learning outcomes: After an introduction into the topic of Behavioral Economics students will study, present, and critically assess current research articles in behavioral economics and the consequence for public policy, specifically policies of the European Union.		
Remark: WIRD IM SS 26 ANGEBOTEN		
prerequisites for the module: none		
Recommended prior knowledge: Advanced Microeconomics, Econometrics		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 3.	Minimal Duration of the Module: 1 Semester

Module Units**Incentives and Behavior****Mode of Delivery:** Seminar**Lecturers:** Prof. Dr. Florian Herold**Language:** English**Frequency:** every summer semester**4,00 Weekly Contact Hours****Contents:****WILL BE HELD IN SUMMER SEMESTER 26**

In this seminar we will discuss how observed human behavior systematically deviates from the rational purely selfinterested "homo economicus" often assumed in economic models.

How to detect and measure these biases in experiments and how to describe them in economic models. Insights from behavioral economics play an increasing role in the design of economic policy in the European Union.

Topics tentatively include the following:

- Experimental Studies in Economics
- Deviations from Rationality
- Limited Attention
- Time Inconsistent Preferences
- Social Preferences
- Behavioral Biases and Implication for Public Policy in Europe

Detailed topics will be determined in the first meeting.

Literature:

The relevant research articles for each topic will be selected during the first meeting.

General background literature:

Daniel Kahneman: Thinking fast and slow, Penguin 2011	
Examination Coursework Assignment with presentation / Duration of Examination: 30 minutes Duration of Coursework: 8 weeks	

Module MAEES6.1 Economic Policy 1 <i>Economic Policy 1</i>		6 ECTS / 180 h
(since WS23/24) Person responsible for module: Prof. Dr. Frank Westerhoff		
Learning outcomes: After successful completion of this course, there is a better understanding of the dynamics of European financial markets. Phenomena such as speculative bubbles, dramatic price declines and volatility outbreaks can be better explained.		
prerequisites for the module: none		
Recommended prior knowledge: none		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 3.	Minimal Duration of the Module: 1 Semester

Module Units	
<p>Financial Market Dynamics Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Frank Westerhoff Language: English Frequency: every winter semester</p> <hr/> <p>Contents: In this course, we study international financial market speculation and its influence on the dynamics of European financial markets. We investigate, for example, which forces affect the euro-dollar exchange rate, the German stock index or Italian government bonds. The analysis focuses on behavioral science models in which interactions between heterogeneous and bounded rational speculators can trigger endogenous financial market dynamics.</p> <p>Key topic areas:</p> <ul style="list-style-type: none"> · Stylized facts of financial markets · Market participants, price forecasts and investment strategies · Behavioral financial market models · Chaos, complexity, and randomness <hr/> <p>Literature: HOMMES, C. (2006): Heterogeneous agent models in economics and finance. In: TESFATSION, L. and JUDD, K. (eds.): Handbook of Computational Economics, Volume 2, Agent-Based Computational Economics. North-Holland, Amsterdam, 1109-1186. LEBARON, B. (2006): Agent-based computational finance. In: TESFATSION, L. and JUDD, K. (eds.): Handbook of Computational Economics, Volume 2, Agent-Based Computational Economics. North-Holland, Amsterdam, 1187-1233. LUX, T. (2010): Financial power laws: Empirical evidence, models and mechanisms. University of Kiel, Economics Working Paper No. 2006-12.</p>	4,00 Weekly Contact Hours

WESTERHOFF, F. (2009): Exchange rate dynamics: A nonlinear survey. In: ROSSER, B. (ed): Handbook on Research on Complexity. Edward Elgar, Cheltenham, 287-325.	
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Examination	
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Written examination / Duration of Examination: 1 hours	
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Module MAEES6.2 Economic Policy 2 <i>Economic Policy 2</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Frank Westerhoff		
Contents: Will not be offered in the summer semester 2026!		
Learning outcomes: After successful completion of this course, students will be able to independently examine and evaluate the consequences of regulatory measures for the stability of European financial markets.		
prerequisites for the module: none		
Recommended prior knowledge: Financial Market Dynamics		Admission requirements: (no prerequisites)
Frequency: every summer semester	Recommended semester: from 4.	Minimal Duration of the Module: 1 Semester
Module Units		
Regulation and Control of Financial Markets Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Frank Westerhoff Language: English Frequency: every summer semester		4,00 Weekly Contact Hours
Contents: Will not be offered in the summer semester 2026! In this event, we discuss how certain regulatory measures may affect the dynamics of European financial markets. For example, should Europe levy a financial market transaction tax? Can the European Central Bank manage the euro-dollar exchange rate through foreign exchange intervention? Can trading halts stabilize European stock markets? The starting point of our considerations is the hypothesis that interactions between heterogeneous and bounded rational speculators drive the dynamics of financial markets. Key topics: <ul style="list-style-type: none"> · Efficiency, dynamics and functioning of financial markets · Behavioral financial market models and artificial laboratory experiments · Transaction taxes, central bank intervention and trading interruptions 		
Literature: HOMMES, C. (2006): Heterogeneous agent models in economics and finance. In: TESFATSION, L. and JUDD, K. (eds.): Handbook of Computational Economics, Volume 2, Agent-Based Computational Economics. North-Holland, Amsterdam, 1109-1186.		

LEBARON, B. (2006): Agent-based computational finance. In: TESFATSION, L. and JUDD, K. (eds.): Handbook of Computational Economics, Volume 2, Agent-Based Computational Economics. North-Holland, Amsterdam, 1187-1233.

LUX, T. (2010): Financial power laws: Empirical evidence, models and mechanisms. University of Kiel, Economics Working Paper No. 2006-12.

WESTERHOFF, F. (2008): The use of agent-based financial market models to test the effectiveness of regulatory policies. Jahrbücher für Nationalökonomie und Statistik, 228, 195-227.

Examination

Written examination / Duration of Examination: 1 hours

Module MAEES6.3 Economic Policy 3 <i>Economic Policy 3</i>		6 ECTS / 180 h
(since SS24 to WS25/26) Person responsible for module: Prof. Dr. Frank Westerhoff		
Learning outcomes: After successful completion of this course, the economics method box is expanded by an important tool. In addition, dynamic micro and macro models can be used independently to analyse a wide variety of economic policy problems in Europe.		
prerequisites for the module: none		
Recommended prior knowledge: none		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 2.	Minimal Duration of the Module: 1 Semester

Module Units	
<p>Dynamic Economic Policy Mode of Delivery: Lectures and Practicals Lecturers: Dr. Noemi Schmitt Language: English Frequency: every summer semester</p> <hr/> <p>Contents: Should the European Central Bank lower interest rates in an economic crisis? And if so, how exactly should this be done? Should the German government cut government spending during a boom? And if so, how exactly should this be done? To answer such questions in a meaningful way, the use of dynamic models is necessary. In this course, we therefore deal with the formal and computer-aided analysis of dynamic economic systems.</p> <p>Key topics:</p> <ul style="list-style-type: none"> - Linear, nonlinear and complex dynamic systems - Microeconomic and macroeconomic models - Formal and numerical analysis of economic policy issues <hr/> <p>Literature: DAY, R. (1994): Complex economic dynamics. MIT Press, Cambridge. GALOR, O. (2006): Discrete dynamical systems. Springer, Berlin. GANDOLFO, G. (2009): Economic dynamics. Springer, Berlin. MEDIO, A. und LINES, M. (2001): Nonlinear dynamics: A primer. Cambridge University Press, Cambridge. PUU, T. und SUSHKO, I. (2006): Business cycle dynamics: models and tools. Springer, Berlin. ROSSER, J. B. (2000): From catastrophe to chaos: a general theory of economic discontinuities. Kluwer Academic Publishers, Boston.</p>	4,00 Weekly Contact Hours

SHONE, R. (2002): Economic Dynamics. Cambridge University Press, Cambridge.	
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Examination	
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Written examination / Duration of Examination: 1 hours	
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Module MAEES6.4 Economic Policy 4 <i>Economic Policy 4</i>		6 ECTS / 180 h
(since WS23/24) Person responsible for module: Prof. Dr. Frank Westerhoff		
Learning outcomes: The aim of the course is to gain a better insight into economic processes and their economic policy implications.		
prerequisites for the module: none		
Recommended prior knowledge: Financial Market Dynamics		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 3.	Minimal Duration of the Module: 1 Semester

Module Units	
<p>Seminar on Quantitative Economic Policy Mode of Delivery: Seminar Lecturers: Prof. Dr. Frank Westerhoff Language: English Frequency: every winter semester</p> <hr/> <p>Contents: Adequately analyzing pressing economic policy issues in Europe requires the use of dynamic micro or macro models. In the seminar on Quantitative Economic Policy, students will learn to work independently with such models, which often have a behavioral science background. The software packages "E&F Chaos", "iDMC" and "Mathematica" are particularly suitable as technical analysis tools.</p> <p>Current events and scientific research contribute to the concrete selection of topics. In addition, some illustrative examples are as follows:</p> <p>Can fiscal policy measures stabilize the European economy? To what extent is European coordination helpful in this regard?</p> <p>Should the European Central Bank pursue a discretionary or a rule-based interest rate policy to stabilize the economy, and what would entail the design of it?</p> <p>What is the effect of taxing financial market transactions in Europe? Does it make sense for Europe to go it alone, or can only a global tax permanently calm the financial markets?</p> <p>Should the European Central Bank influence the euro-dollar exchange rate by intervening in the foreign exchange market? What advantages and disadvantages would this entail?</p> <p>Can the European real economy become stable by stabilizing the European financial markets? Does the reverse also apply?</p> <hr/> <p>Literature: Siehe den jeweils aktuellen Aushang.</p>	2,00 Weekly Contact Hours

Examination

Coursework Assignment with presentation / Duration of Examination: 30 minutes

Duration of Coursework: 8 weeks

Module MAEES7.1 Economic Theory 1 <i>Economic Theory 1</i>		6 ECTS / 180 h
(since SS24) Person responsible for module: Prof. Dr. Marco Sahn		
Learning outcomes: Participants can describe a situation of strategic interaction as a game with mathematical tools. They can distinguish between games with respect to their decision and information structure. Participants know different notions of equilibria and are able to apply these to appropriate games in order to make plausible predictions about human behavior in games. Participants can apply these concepts for the design of contracts or institutions that incentivize individuals to behave as required for the maximization of some joint surplus in situations with asymmetric information. Participants can categorize such situations into problems of adverse selection and moral hazard and can propose and demonstrate appropriate solutions like screening or signaling.		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I & II (both bachelor), Advanced Microeconomics		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 2.	Minimal Duration of the Module: 1 Semester

Module Units	
Games and Contracts Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Marco Sahn, Dr. Christoph March Language: English Frequency: every summer semester	4,00 Weekly Contact Hours
Contents: The course offers a rigorous introduction to the theory of games and contracts. The concepts of game theory permit to analyze situations of strategic interaction in which the economic agents take into account the interdependence of their decisions. Contract theory deals with situations in which a group of agents has the opportunity to realize a joint surplus but single group members have incentives to deviate from the required behavior at the expense of others. Are there mechanisms, institutions, or contracts that can enforce good conduct? This question is of particular interest whenever asymmetric information precludes contracting upon all behaviorally relevant conditions.	
Literature: MAS COLELL, A., WHINSTON, M., and J. GREEN (1995): Microeconomic Theory, Oxford University Press EICHBERGER, J. (1993): Game Theory for Economists, Academic Press FUDENBERG D. and J. TIROLE (1998): Game Theory, MIT Press, 6th edition BANNIER, C. (2005): Vertragstheorie, Physica-Verlag BOLTON, P. and M. DEWATRIPONT (2005): Contract Theory, MIT Press	

SCHWEIZER, U. (1999): Vertragstheorie, Mohr Siebeck	
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Examination	
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Written examination / Duration of Examination: 60 minutes	
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Module MAEES7.2 Economic Theory 2 <i>Economic Theory 2</i>		6 ECTS / 180 h
(since WS23/24) Person responsible for module: Prof. Dr. Marco Sahm		
Learning outcomes: Participants can use the concept of Pareto efficiency and are able to differentiate between problems of efficiency and equity in central planner problems. They can (mathematically) identify and explain situations and causes of market failure. Participants are able to apply different possibilities of optimally supplying a public good in different settings and understand under which circumstances these can be applied. They can demonstrate and explain the impossibility of lump-sum taxation. Participants are able to illustrate challenges in optimal commodity and income taxation and can propose and demonstrate optimal taxation schemes in different examples. They can use these tools to further study positive and normative aspects of public economic policy.		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I & II, Einführung in die Finanzwissenschaft (all Bachelor)		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 1.	Minimal Duration of the Module: 1 Semester

Module Units	
Public Economic Theory Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Marco Sahm Language: English Frequency: every winter semester	4,00 Weekly Contact Hours
Contents: Public economics deals with the role of the government as an economic player. The course develops the theory for answering questions like the following: What is the scope for market interventions by the government? What is the role of the government for internalizing external effects and providing public goods? How can/should public expenditures be financed? What is the economic burden of taxation and who bears it? What is an optimal tax scheme and how should it look like? How much social security should the government provide?	
Literature: Myles, Gareth (1995): Public Economics, Cambridge UK. Salanie, Bernard (2003): The Economics of Taxation, MIT Press Cambridge, MA Keuschnigg, Christian (2005): Öffentliche Finanzen: Einnahmenpolitik, Mohr Siebeck, Tübingen. Mas-Colell, Andreu et al. (1995): Microeconomic Theory, Oxford University Press, New York	
Examination	

Written examination / Duration of Examination: 60 minutes	
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Module MAEES7.3 Economic Theory 3 <i>Economic Theory 3</i>		6 ECTS / 180 h
(since WS23/24) Person responsible for module: Prof. Dr. Marco Sahn		
Learning outcomes: Participants can describe situations of strategic interactions between consumers, firms, and regulators with formal mathematical tools. They know the basic concepts of microeconomic theory to analyze production and price setting under various competition strategies such as product differentiation on markets with imperfect competition by means of basic game theoretical equilibrium notions. Participants can evaluate the impact of structural aspects of market power such as collusion, mergers, entry, vertical relations, and intermediation on consumer surplus and social welfare. Participants are equipped with enough theoretical models and general findings to develop hypotheses for further industrial organization research questions.		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I & II, Industrieökonomik (all bachelor)		Admission requirements: none
Frequency: every summer semester	Recommended semester: from 1.	Minimal Duration of the Module: 1 Semester
Module Units		
Advanced Industrial Economics Mode of Delivery: Lectures and Practicals Lecturers: Prof. Dr. Marco Sahn Language: English Frequency: every summer semester		4,00 Weekly Contact Hours
Contents: Industrial Economics highlights the strategic interaction among firms as well as between firms and consumers on markets with imperfect competition. The MA-course "Advanced Industrial Economics" builds on the basic analysis of imperfect competition as introduced in the BA-course "Industrial Economics". The first part focuses on structural aspects of market power such as collusion, mergers, and entry. The second part deals with technological issues like innovation and R&D as well as networks and standards. The last part discusses the role of market intermediaries such as matchmakers and two-sided platforms. Throughout, the main focus is on strategic sources of market power and its consequences for social welfare.		
Literature: TIROLE, J. (1988). The Theory of Industrial Organization. MIT Press. BELLEFRLAMME, P./PEITZ, M. (2010). Industrial Organization: Markets and Strategies. Cambridge University Press.		
Examination Written examination / Duration of Examination: 60 minutes		

Module MAEES7.4 Economic Theory 4 <i>Economic Theory 4</i>		6 ECTS / 180 h
(since SS24) Person responsible for module: Prof. Dr. Marco Sahm		
Learning outcomes: Participants sharpen their ability of applying economic theory to contemporary economic problems. Students learn to translate practical issues into theoretic models, derive formal results, and retransform their theoretical insights into concrete policy recommendations. Based on the relevant literature, they practice to work on their own research ideas and to present and discuss these ideas with colleagues.		
prerequisites for the module: none		
Recommended prior knowledge: Mikroökonomik I & II (both bachelor), Advanced Microeconomics		Admission requirements: none
Frequency: every winter semester	Recommended semester: from 2.	Minimal Duration of the Module: 1 Semester
Module Units		
Topics in Economic Theory and Applications to European Policy Mode of Delivery: Seminar Lecturers: Prof. Dr. Marco Sahm, Dr. Christoph March Language: English Frequency: every winter semester		2,00 Weekly Contact Hours
Contents: In this seminar, students work on varying topics from Economic Theory and apply them to contemporary economic policy with a strong focus on European issues. Depending on the special interest, methods vary from standard (game and contract) theory over behavioral theory to empirical tools and experiments. Central issues will be taken from the fields of Industrial Economics, Competition Policy, Public Economics, Social Choice and Welfare Economics, amongst others.		
Literature: Geeignete Referenzen werden im VC sowie in der ersten Lehrveranstaltung bekannt gegeben.		
Examination Coursework Assignment with presentation / Duration of Examination: 30 minutes Duration of Coursework: 8 weeks		

Module MAEES8.1 Macroeconomics and International Finance 1		6 ECTS / 180 h
<i>Macroeconomics and International Finance 1</i>		
(since SS26)		
Person responsible for module: Prof. Dr. Christian Proaño		
Contents: see below		
Learning outcomes: The main objective of this module is to introduce the students to advanced statistical and econometric methods used in applied macroeconometric analysis and forecasting. The course is of an applied nature, stressing both the theory as well as the application of the discussed methods. After the course, the students will have a hands-on programming knowledge.		
prerequisites for the module: none		
Recommended prior knowledge: Methoden der Empirischen Mikro- or Makroökonomik (both Bachelor)		Admission requirements: none
Frequency: every semester	Recommended semester: 3.	Minimal Duration of the Module: 1 Semester

Module Units	
<p>Advanced Time Series Methods for Macroeconomic Analysis</p> <p>Mode of Delivery: Lectures and Practicals</p> <p>Lecturers: Prof. Dr. Christian Proaño</p> <p>Language: English</p> <p>Frequency: every semester</p> <hr/> <p>Contents: This course introduces the main empirical methods used in monetary macroeconomics. After a brief review of univariate time series analysis, alternative time series decomposition methods such as the Hodrick-Prescott Filter are discussed. Then, the modeling of the interaction between monetary policy actions and key financial and monetary aggregates through so-called vector-autoregression (VAR) and vector-error-correction (VECM) models will be discussed in detail. Time permitting, issues like real-time data and forecasting will also be discussed.</p> <hr/> <p>Literature: Info on literature will be provided during the lectures.</p>	4,00 Weekly Contact Hours
Examination Internship report	

Module MAEES8.2 Macroeconomics and International Finance 2		6 ECTS / 180 h
<i>Macroeconomics and International Finance 2</i>		
(since SS26) Person responsible for module: Prof. Dr. Christian Proaño		
Contents: see below		
Learning outcomes: The module's objective is to provide students with an introduction to and a hands-on experience with computational tools used in economic analysis at a graduate level.		
prerequisites for the module: none		
Recommended prior knowledge: Advanced Macroeconomics		Admission requirements: none
Frequency: every winter semester	Recommended semester: 1.	Minimal Duration of the Module: 1 Semester

Module Units	
Computational Behavioral Macroeconomics Mode of Delivery: Lectures Lecturers: Prof. Dr. Christian Proaño Language: English/German Frequency: every winter semester	2,00 Weekly Contact Hours
Contents: Data handling and visualization, model simulation techniques and statistical analysis at a graduate level will be discussed throughout the course. Students will be made familiar with a widespread programming language such as Python or MATLAB/Octave.	
Literature: Will be announced during the first lecture!	
Examination Internship report	

Module MAEES8.3 Macroeconomics and International Finance 3		6 ECTS / 180 h
<i>Macroeconomics and International Finance 3</i>		
(since SS26) Person responsible for module: Prof. Dr. Christian Proaño		
Contents: see below		
Learning outcomes: The module's objective is to provide students with a deeper understanding of the interaction between the real and the financial sector in modern economies. Key topics like the financial accelerator mechanism, the emergence of bank runs and financial contagion, and the design of macroprudential policies, will be discussed in details.		
prerequisites for the module: none		
Recommended prior knowledge: Advanced Macroeconomics		Admission requirements: none
Frequency: every summer semester	Recommended semester: 3.	Minimal Duration of the Module: 1 Semester
Module Units		
Financial Macroeconomics Mode of Delivery: Lectures Lecturers: Prof. Dr. Christian Proaño Language: English Frequency: every summer semester		2,00 Weekly Contact Hours
Learning outcome: See above.		
Contents: This course focuses on key topics in financial macroeconomics such as asymmetric information, credit rationing, the role of collateral requirements for aggregate credit dynamics, and the financial accelerator mechanism at an advanced level. After an extensive discussion of the problems resulting from asymmetric information in the financial markets, the inclusion of these problems and their solutions in small- and medium-scale macroeconomic models is treated. The conduct of conventional and unconventional monetary policy in economies with modern financial systems is then investigated. Time permitting, issues like cross-border banking, banking crises and sovereign default might be handled as well.		
Literature: Will be announced during the first lecture!		
Examination Written examination / Duration of Examination: 60 minutes		

Module MAEES8.4 Macroeconomics and International Finance 4		6 ECTS / 180 h
<i>Macroeconomics and International Finance 4</i>		
(since SS26)		
Person responsible for module: Prof. Dr. Christian Proaño		
Contents: Topics will be announced during the first lecture.		
Learning outcomes: Discussion of state-of-the-art topics, methods and theories in macroeconomics.		
prerequisites for the module: none		
Recommended prior knowledge: Advanced Macroeconomics, MAEES8.1, MAEES8.2, MAEES8.3.		Admission requirements: none
Frequency: every semester	Recommended semester: 4.	Minimal Duration of the Module: 1 Semester

Module Units	
Advanced Topics in Macroeconomics and International Finance Mode of Delivery: Seminar Lecturers: Prof. Dr. Christian Proaño Language: English Frequency: every semester	2,00 Weekly Contact Hours
Learning outcome: Discussion of state-of-the-art topics, methods and theories in macroeconomics.	
Contents: Topics will be announced during the introductory meeting.	
Examination Coursework Assignment with presentation / Duration of Examination: 30 minutes Duration of Coursework: 8 weeks	

Module MAEES9.1 Regional and Labour Studies <i>Regional and Labour Studies</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Wolfgang Dauth		
Contents: In this seminar, we will discuss current topics in (regional) labor market research, such as the effects of minimum wages, urban-rural wage differences, or how workers adapt to megatrends like automation and decarbonization. The first part of each meeting is a lecture on the theoretical background and the state of the empirical literature on each topic. The second part consists of hands-on exercises, where we use real data to conduct our own analyses.		
Learning outcomes: Understanding empirical research, distinguishing between causality and correlation, and being able to conduct an empirical analysis by oneself.		
prerequisites for the module: none		
Recommended prior knowledge: Some basic knowledge in microeconomics and statistics are recommended but not required.		Admission requirements: keine
Frequency: every summer semester	Recommended semester: from 2.	Minimal Duration of the Module: 1 Semester
Module Units		
Neue Entwicklungen der Arbeitsmarktforschung Mode of Delivery: Seminar Lecturers: Prof. Dr. Wolfgang Dauth Language: English/German Frequency: every summer semester		2,00 Weekly Contact Hours
Learning outcome: see above		
Literature: Will be announced with the materials for each chapter in VC.		
Examination Written examination / Duration of Examination: 60 minutes		

Module MAEES9.2 Migration Studies <i>Migration Studies</i>		6 ECTS / 180 h
(since WS23/24) Person responsible for module: Prof. Dr. Yuliya Kosyakova		
Contents: In diesen Veranstaltungen setzen sich die Studierenden eigenständig mit komplexen Themengebieten der Migrations- und Integrationsforschung auseinander, wobei sich das Augenmerk in besonderer Weise auf gegenwärtige Migrationsströme und ihre aktuellen Folgen richtet. Behandelt werden Fragestellungen zu den Ursachen internationaler Migrationsbewegungen ebenso wie zu den Bedingungen der Integration in unterschiedliche gesellschaftliche Bereiche. Dabei werden Theorien und empirische Befunde zu aktuellen Problemstellungen zusammengeführt.		
Learning outcomes: Die Veranstaltungen befähigen zur vertieften soziologischen Auseinandersetzung mit zentralen Themen der Migrations- und Integrationsforschung. Im Mittelpunkt stehen die Anwendung ausgewählter Theorien auf aktuelle Fragestellungen sowie die methodische Aufarbeitung, Interpretation und inhaltliche Diskussion empirischer Befunde. Neben der Vermittlung inhaltlicher und methodischer Kompetenz können weitere Fähigkeiten erworben werden, etwa Sozialkompetenz durch die Arbeit im Team oder Fertigkeiten bei der Präsentation von Inhalten.		
Remark: In den Seminaren wird dringend empfohlen ein Referat, Textzusammenfassungen o.ä. zu übernehmen.		
prerequisites for the module: none		
Recommended prior knowledge: Inhalte der Vorlesung „Einführung in die Migrationssoziologie“		Admission requirements: none
Frequency: every winter semester	Recommended semester: 1.	Minimal Duration of the Module: 1 Semester

Module Units	
Aktuelle Befunde der Migrations- und Integrationsforschung Mode of Delivery: Advanced seminar, Key competence (Crash course) Lecturers: Prof. Dr. Yuliya Kosyakova Language: English/German Frequency: every winter semester	3,00 Weekly Contact Hours
Literature: Wird zu Beginn der Veranstaltung bekannt gegeben.	
Examination No type selected Description: Die Prüfung wird im Rahmen einer Lehrveranstaltung durchgeführt. Im Rahmen welcher Lehrveranstaltung die Prüfung durchgeführt wird, wird zu Beginn des Semesters bekannt gegeben. Die Modulprüfung wird in Form eines Referates mit Hausarbeit, eines Portfolios oder einer mündlichen Prüfung abgehalten. Welche Prüfungsform durchgeführt wird und die jeweilige Prüfungsdauer bzw.	

<p>Bearbeitungsfrist, wird in der ersten Sitzung der Lehrveranstaltung bekannt gegeben.</p>	
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Prüfungssprache: i.d.R. Englisch

In welcher Sprache die Prüfung konkret durchgeführt wird, wird zu Beginn des Semesters bekannt gegeben.

Module WiMa-M-002 Zeitreihenanalyse <i>Zeitreihenanalyse</i>		6 ECTS / 180 h
(since WS24/25) Person responsible for module: Prof. Dr. Anne Leucht		
Contents: Komponentenmodelle, Stationarität, Vorhersage von Zeitreihendaten, ARIMA- und GARCH-Modelle mit Anwendung in Finanzmarktökonomie, Parameterschätzer und ihre Güteeigenschaften		
Learning outcomes: Erwerb theoretischer Kenntnisse zur Zeitreihenanalyse, praktische Umsetzung/Implementierung der Verfahren, Erlangung der Kompetenz zur eigenständigen Analyse von Zeitreihendaten		
prerequisites for the module: none		
Recommended prior knowledge: Introduction to Econometrics oder Fortgeschrittene Statistik		Admission requirements: none
Frequency: annually	Recommended semester:	Minimal Duration of the Module: Semester
Module Units		
Zeitreihenanalyse Mode of Delivery: Lectures and Practicals Language: German Frequency: annually		3,00 Weekly Contact Hours
Literature: Kreiß, Neuhaus (2006). Einführung in die Zeitreihenanalyse, Springer. Brockwell, Davis (1991). Time Series: Theory and Methods, Springer.		
Examination Oral examination / Duration of Examination: 20 minutes		

Module SuStat-026-M Monte Carlo Methods <i>Rechnerintensive Verfahren / Monte-Carlo-Methoden</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Timo Schmid		
Contents: Vermittlung von Grundlagen von Simulationsmethoden: Methoden zur Erzeugung von Zufallszahlen nach unterschiedlichen Verteilungen, Anlage und Einsatz von Simulationsstudien.		
Learning outcomes: In diesem Modul sollen essentielle Kenntnisse in Simulationsmethoden, die sogenannten Monte-Carlo-Verfahren, vermittelt werden. Mit Hilfe von Simulationsmethoden sollen theoretische Kenntnisse oder Eigenschaften von statistischen Verfahren auf ihre Effizienz im praktischen Einsatz hin überprüft werden. <ul style="list-style-type: none"> • Generierung von Pseudozufallszahlen • Einführung in Simulationsmethoden und MC-Studiendesign • Iterative Schätz-Algorithmen 		
Remark: Beteiligte Institutionen: Lehrstuhl für Statistik und Ökonometrie; Fachbereich Wirtschaftswissenschaft, Institut für Statistik und Ökonometrie, Freie Universität Berlin; Fachbereich IV – VWL, Lehrstuhl für Wirtschafts- und Sozialstatistik, Universität Trier Angebot teilweise über Videokonferenz.		
prerequisites for the module: Keine		
Recommended prior knowledge: Grundlegende Kenntnisse der Programmiersprache R. Module Statistics I (Stat-B-01) - Module Statistics II (Stat-B-02) -		Admission requirements: Keine
Frequency: every winter semester	Recommended semester: 2.	Minimal Duration of the Module: 1 Semester
Module Units		
Rechnerintensive Verfahren / Monte-Carlo-Methoden Mode of Delivery: Lectures, Practicals Language: English/German Frequency: every winter semester		3,00 Weekly Contact Hours
Examination Portfolio / Duration of Coursework: 12 weeks Description: Die jeweils gültige Prüfungsform sowie Prüfungssprache wird zu Beginn der Veranstaltung durch den Veranstalter bekannt gegeben. Beinhaltet Fragen und Aufgaben zu den Studieninhalten des Moduls.		

Examination

Coursework Assignment / Duration of Coursework: 8 weeks

Description:

Die jeweils gültige Prüfungsform sowie Prüfungssprache wird zu Beginn der Veranstaltung durch den Veranstalter bekannt gegeben.

Beinhaltet Fragen und Aufgaben zu den Studieninhalten des Moduls.

Examination

Oral examination / Duration of Examination: 20 minutes

Description:

Die jeweils gültige Prüfungsform sowie Prüfungssprache wird zu Beginn der Veranstaltung durch den Veranstalter bekannt gegeben.

Beinhaltet Fragen und Aufgaben zu den Studieninhalten des Moduls.

Module SuStat-011-M Survey Sampling Theory <i>Stichprobenverfahren</i>		6 ECTS / 180 h
(since SS26) Person responsible for module: Prof. Dr. Timo Schmid		
Contents: Einführung in grundlegenden Stichprobenverfahren, insbesondere mehrstufige Zufallsstichproben und Verfahren mit unterschiedlichen Auswahlwahrscheinlichkeiten, unter Verwendung designbasierter und modellunterstützender Schätzverfahren. Schwerpunkt: theoretische Darstellung der Schätzmethodik, Anwendbarkeit in der Praxis.		
Learning outcomes: <ul style="list-style-type: none"> • Grundlagen der Stichprobentheorie • Komplexe Stichprobendesigns und deren Auswirkungen auf Schätzeigenschaften • Umgang mit Praxisproblemen wie Unit Nonresponse 		
Remark: Beteiligte Institutionen: Lehrstuhl für Statistik und Ökonometrie; Fachbereich Wirtschaftswissenschaft, Institut für Statistik und Ökonometrie, Freie Universität Berlin; Fachbereich IV – VWL, Lehrstuhl für Wirtschafts- und Sozialstatistik, Universität Trier Angebot teilweise über Videokonferenz.		
prerequisites for the module: Keine		
Recommended prior knowledge: none Module Statistics I (Stat-B-01) - recommended Module Statistics II (Stat-B-02) - recommended		Admission requirements: Keine
Frequency: every winter semester	Recommended semester: 1.	Minimal Duration of the Module: 1 Semester
Module Units		
Stichprobenverfahren Mode of Delivery: Lectures, Practicals Language: German/English Frequency: every winter semester		4,00 Weekly Contact Hours
Examination Written examination / Duration of Examination: 120 no value Description: Die Prüfung beinhaltet Fragen und Aufgaben zu den Studieninhalten des Moduls. Die jeweils gültige Prüfungssprache und -Dauer wird zu Beginn der Veranstaltung durch den Veranstalter bekannt gegeben		

Module MA WiGe 1a MA Wirtschaftsgeschichte 1a <i>MA Wirtschaftsgeschichte 1a</i>		6 ECTS / 180 h
(since WS24/25) Person responsible for module: Prof. Dr. Nina Kleinöder		
Contents: Die unten genannten Lernziele werden in einem exemplarischen, semesterweise wechselnden Themengebiet des Faches Wirtschaftsgeschichte angewandt. Es wird sowohl ein breites Überblickswissen vermittelt, sowie auch eine punktuelle Vertiefung anhand eines konkreten Themas ermöglicht		
Learning outcomes: Ziel des Modules ist zum einen der vertiefte Erwerb von breitem, wirtschaftshistorischem Wissen, interdisziplinärer Methodenkompetenz, sowie der Fähigkeit, vor dem aktuellen Forschungsstand eine komplexe wissenschaftliche Fragestellung zu entwickeln und mit Hilfe spezifischer Quellen und einschlägiger Fachliteratur in einem vorgegebenen Zeitrahmen strukturiert zu bearbeiten. Außerdem werden Kompetenzen in der Analyse und Interpretation von wirtschaftshistorischen Quellen eingeübt und vertieft. Schließlich soll eine strukturierte und eigenständige Bearbeitung einer umgrenzten wissenschaftlichen Fragestellung die bereits erworbenen Kompetenzen festigen.		
prerequisites for the module: none		
Recommended prior knowledge: none		Admission requirements: none
Frequency: annually	Recommended semester:	Minimal Duration of the Module: 1 Semester

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Practicals Language: German Frequency: annually	2,00 Weekly Contact Hours
Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	
Examination Coursework Assignment / Duration of Coursework: 6 months	
Description: Die Bearbeitungsfrist beginnt mit dem ersten Sitzungstermin der Lehrveranstaltung.	

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Lectures Language: German Frequency: annually	2,00 Weekly Contact Hours
Contents:	

Bitte informieren Sie sich über das aktuelle Lehrangebot der
Wirtschaftsgeschichte über UniVis.

Module MA WiGe 1b MA Wirtschaftsgeschichte 1b <i>MA Wirtschaftsgeschichte 1b</i>		6 ECTS / 180 h
(since WS24/25) Person responsible for module: Prof. Dr. Nina Kleinöder		
Contents: Die unten genannten Lernziele sollen in einem exemplarischen, semesterweise wechselnden, Themengebiet des Faches Wirtschaftsgeschichte angewandt werden. In jeder Lehrveranstaltung wird sowohl ein breites Überblickswissen vermittelt, sowie auch eine punktuelle Vertiefung anhand eines konkreten Themas ermöglicht.		
Learning outcomes: Ziel des Modules ist zum einen der vertiefte Erwerb von breitem wirtschaftshistorischem Wissen, interdisziplinärer Methodenkompetenz, sowie der Fähigkeit, fachspezifische Literatur zu finden, auszuwerten und selbstständig und zielgerichtet einzusetzen. Das erworbene Wissen kann strukturiert und mit bereits bestehendem wirtschaftshistorischem Wissen verknüpft werden, sowie problem- und lösungsorientiert angewandt werden. Außerdem sollen bereits erworbene Kompetenzen in der Analyse und Interpretation von wirtschaftshistorischen Quellen ausgebaut und eingeübt werden.		
prerequisites for the module: none		
Recommended prior knowledge: none		Admission requirements: none
Frequency: annually	Recommended semester:	Minimal Duration of the Module: 1 Semester

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Practicals Language: German Frequency: annually <hr/> Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	2,00 Weekly Contact Hours

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Lectures Language: German Frequency: annually <hr/> Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	2,00 Weekly Contact Hours
Examination Written examination / Duration of Examination: 90 minutes Description:	

Die Prüfungsform (mündliche Prüfung oder schriftliche Klausur) wird vom Dozierenden festgelegt und zu Beginn der Lehrveranstaltung bekannt gegeben.	
Examination Oral examination / Duration of Examination: 30 minutes Description: Die Prüfungsform (mündliche Prüfung oder schriftliche Klausur) wird vom Dozierenden festgelegt und zu Beginn der Lehrveranstaltung bekannt gegeben.	

Module MA WiGe 2a MA Wirtschaftsgeschichte 2a <i>MA Wirtschaftsgeschichte 2a</i>		6 ECTS / 180 h
(since WS24/25) Person responsible for module: Prof. Dr. Nina Kleinöder		
Contents: Die unten genannten Lernziele werden in einem exemplarischen, semesterweise wechselnden, Themengebiet des Faches Wirtschaftsgeschichte erarbeitet. In jeder Lehrveranstaltung wird sowohl Überblickswissen vermittelt, sowie auch eine punktuelle Vertiefung anhand eines konkreten Themas ermöglicht. Vermittlung von breitem wirtschaftshistorischem Überblickswissen.		
Learning outcomes: Ziel des Moduls ist zum einen der Erwerb von wirtschaftshistorischem Fachwissen und interdisziplinärer Methodenkompetenz, zum anderen wird die Fähigkeit, fachspezifische Literatur zu finden, auszuwerten sowie selbstständig und zielgerichtet einzusetzen, ausgebaut werden. Außerdem werden Kompetenzen zum Verfassen wissenschaftlicher Arbeiten, sowie die Hinführung zu wissenschaftlicher Denk- und Arbeitsweise im Fach Wirtschaftsgeschichte erfolgen. Durch die strukturierte und eigenständige Bearbeitung einer umgrenzten wissenschaftlichen Fragestellung werden diese Kompetenzen praktisch gefestigt werden.		
prerequisites for the module: none		
Recommended prior knowledge: none		Admission requirements: none
Frequency: annually	Recommended semester:	Minimal Duration of the Module: 1 Semester

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Block course Language: German Frequency: annually <hr/> Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	2,00 Weekly Contact Hours
Examination Coursework Assignment / Duration of Coursework: 6 months Description: Die Bearbeitungsfrist beginnt mit dem ersten Sitzungstermin der Lehrveranstaltung.	

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Lectures Language: German Frequency: annually <hr/> Contents:	2,00 Weekly Contact Hours

Bitte informieren Sie sich über das aktuelle Lehrangebot der
Wirtschaftsgeschichte über UniVis.

Module MA WiGe 2b MA Wirtschaftsgeschichte 2b <i>MA Wirtschaftsgeschichte 2b</i>		6 ECTS / 180 h
(since WS24/25) Person responsible for module: Prof. Dr. Nina Kleinöder		
Contents: Die unten genannten Lernziele werden in einem exemplarischen, semesterweise wechselnden, Themengebiet des Faches Wirtschaftsgeschichte erworben. In jeder Lehrveranstaltung wird sowohl Überblickswissen vermittelt, sowie auch eine punktuelle Vertiefung anhand eines konkreten Themas ermöglicht. Vermittlung von breitem wirtschaftshistorischem Fachwissen.		
Learning outcomes: Ziel des Moduls ist der Erwerb von wirtschaftshistorischem Fachwissen sowie interdisziplinärer Methodenkompetenz. Des Weiteren wird die Fähigkeit, fachspezifische Literatur zu finden, auszuwerten sowie selbstständig und zielgerichtet einzusetzen geübt werden. Das erworbene Wissen kann strukturiert und mit bereits bestehendem wirtschaftshistorischem Wissen verknüpft werden, sowie problem- und lösungsorientiert angewandt werden. Außerdem werden Kompetenzen zum Verfassen wissenschaftlicher Arbeiten, sowie die Hinführung zu wissenschaftlicher Denk- und Arbeitsweise im Fach Wirtschaftsgeschichte vertieft und praktisch gefestigt werden.		
prerequisites for the module: none		
Recommended prior knowledge: none		Admission requirements: none
Frequency: annually	Recommended semester:	Minimal Duration of the Module: Semester

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Block course Language: German Frequency: annually	2,00 Weekly Contact Hours
Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Lectures Language: German Frequency: annually	2,00 Weekly Contact Hours
Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	
Examination Written examination / Duration of Examination: 90 minutes	
Description:	

Die Prüfungsform (mündliche Prüfung oder schriftliche Klausur) wird vom Dozierenden festgelegt und zu Beginn der Lehrveranstaltung bekannt gegeben.	
Examination Oral examination / Duration of Examination: 30 minutes Description: Die Prüfungsform (mündliche Prüfung oder schriftliche Klausur) wird vom Dozierenden festgelegt und zu Beginn der Lehrveranstaltung bekannt gegeben.	

Module MA WiGe 3 MA Wirtschaftsgeschichte 3 <i>MA Wirtschaftsgeschichte 3</i>		6 ECTS / 180 h
(since WS24/25) Person responsible for module: Prof. Dr. Nina Kleinöder		
Contents: In diesem Modul werden die unten genannten Lernziele in einem exemplarischen, semesterweise wechselnden, Themengebiet des Faches Wirtschaftsgeschichte angewandt. Es wird sowohl Überblickswissen vermittelt, sowie auch eine punktuelle Vertiefung anhand eines konkreten Themas ermöglicht.		
Learning outcomes: Ziel des Moduls ist der vertiefte Erwerb von wirtschaftshistorischem Fachwissen sowie interdisziplinärer Methodenkompetenz. Außerdem wird die Fähigkeit, fachspezifische Literatur zu finden, auszuwerten sowie selbstständig und zielgerichtet einzusetzen, vertieft. Das Vertiefen von Kompetenzen zum Verfassen wissenschaftlicher Arbeiten, sowie Hinführung zu wissenschaftlicher Denk- und Arbeitsweise im Fach Wirtschaftsgeschichte wird durch gezielte Vorbereitung und eine strukturierte und eigenständige Bearbeitung einer umgrenzten wissenschaftlichen Fragestellung ermöglicht.		
prerequisites for the module: Es wird empfohlen vor der Belegung eines Hauptseminars bereits ein anderes Modul der Wirtschaftsgeschichte absolviert zu haben.		
Recommended prior knowledge: none		Admission requirements: none
Frequency: annually	Recommended semester:	Minimal Duration of the Module: Semester

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Language: German Frequency: annually	2,00 Weekly Contact Hours
Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	
Examination Coursework Assignment / Duration of Coursework: 8 months Description: Die Bearbeitungsfrist beginnt mit dem ersten Sitzungstermin der Lehrveranstaltung.	

Module MA WiGe 4 MA Wirtschaftsgeschichte 4 <i>MA Wirtschaftsgeschichte 4</i>		6 ECTS / 180 h
(since WS24/25) Person responsible for module: Prof. Dr. Nina Kleinöder		
Contents: In diesem Modul werden die unten genannten Lernziele in einem exemplarischen, semesterweise wechselnden, Themengebiet des Faches Wirtschaftsgeschichte angewandt. Es wird sowohl Überblickswissen vermittelt, sowie auch eine punktuelle Vertiefung anhand eines konkreten Themas ermöglicht.		
Learning outcomes: Ziel des Moduls ist der vertiefte Erwerb von wirtschaftshistorischem Fachwissen sowie interdisziplinärer Methodenkompetenz. Außerdem wird die Fähigkeit, fachspezifische Literatur zu finden, auszuwerten sowie selbstständig und zielgerichtet einzusetzen, vertieft. Das Vertiefen von Kompetenzen zum Verfassen wissenschaftlicher Arbeiten, sowie Hinführung zu wissenschaftlicher Denk- und Arbeitsweise im Fach Wirtschaftsgeschichte wird durch gezielte Vorbereitung und eine strukturierte und eigenständige Bearbeitung einer umgrenzten wissenschaftlichen Fragestellung ermöglicht.		
prerequisites for the module: Es wird empfohlen vor der Belegung eines Hauptseminars bereits ein anderes Modul der Wirtschaftsgeschichte absolviert zu haben.		
Recommended prior knowledge: none		Admission requirements: none
Frequency: annually	Recommended semester:	Minimal Duration of the Module: 1 Semester

Module Units	
Wirtschaftsgeschichte Mode of Delivery: Language: German Frequency: annually	2,00 Weekly Contact Hours
Contents: Bitte informieren Sie sich über das aktuelle Lehrangebot der Wirtschaftsgeschichte über UniVis.	
Examination Coursework Assignment / Duration of Coursework: 8 months Description: Die Bearbeitungsfrist beginnt mit dem ersten Sitzungstermin der Lehrveranstaltung.	

Module MAEES12.1 Master Thesis with Colloquium <i>Master Thesis with Colloquium</i>		24 ECTS / 720 h
(since SS26) Person responsible for module: alle VWL-Fachvertreter		
Learning outcomes: The students learn to independently delve deeply into a scientifically complex issue. They compile a scientific paper on their own initiative and apply the knowledge acquired during their studies in a targeted and reflective manner. In the scientific paper, students record, analyse and discuss a selected topic area. The students have the competences to work on new complex tasks and problems in the subject of economics.		
prerequisites for the module: Admission to the Master's thesis requires that at least 60 ECTS credits have been acquired.		
Recommended prior knowledge: All four modules from the core curriculum (module group MAEES1) and at least two modules from the specialization offered by the supervisor of the master's thesis (module groups MAEES3-9) .		Admission requirements: none
Frequency: every semester	Recommended semester: from 4.	Minimal Duration of the Module: 1 Semester

Examination / Duration of Examination: 30 minutes Duration of Coursework: 5 months prerequisites for module examination: At least 60 ECTS credits in the MA EES	
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Module MAEES12.2 Master Thesis with Disputation <i>Master Thesis with Disputation</i>		24 ECTS / 720 h
Person responsible for module: alle VWL-Fachvertreter		
Learning outcomes: The students learn to independently delve deeply into a scientifically complex issue. They compile a scientific paper on their own initiative and apply the knowledge acquired during their studies in a targeted and reflective manner. In the scientific paper, students record, analyse and discuss a selected topic area. The students have the competences to work on new complex tasks and problems in the subject of economics.		
prerequisites for the module: Admission to the Master's thesis requires that at least 60 ECTS credits have been acquired.		
Recommended prior knowledge: All four modules from the core curriculum (module group MAEES1) and at least two modules from the specialization offered by the supervisor of the master's thesis (module groups MAEES3-9) .		Admission requirements: none
Frequency: every semester	Recommended semester: from 4.	Minimal Duration of the Module: 1 Semester

Examination / Duration of Examination: 30 minutes Duration of Coursework: 5 months prerequisites for module examination: At least 60 ECTS credits in the MA EES	
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