

University of Bonn
Faculty of Law and Economics
Department of Economics

Course Catalogue

Bachelor Programs (PO 2024)

B.Sc. Economics **B.A. Economics (Major/Minor)**



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Winter Semester 2025/26

- Preliminary Edition -

(Missing: Module overviews, explanatory parts)

Academic Research and Writing

ECO-B0009



Content and learning outcome

Content	<p>The Seminar is about general guidelines and techniques for creating a presentation as well as a seminar paper or a bachelor thesis. This includes, among other things: the basic types of academic work, structure and organization of an essay, term paper and thesis, Citation methods, citation software, Structure and organization of a presentation, Possibilities and limitations of different presentation techniques, formats and media, Methods for finding topics, Reading techniques, an introduction to literature research using the university library's current search portal, academic databases and other current search portals</p> <p>The theoretical knowledge is practiced using practical examples. Participants then write a term paper or essays in the context of the seminar topic and give a presentation.</p>		
Learning outcome	<p>After completing the seminar, students will be able to prepare a written seminar paper, give a presentation to the group of participants and discuss the results. They will be able to select and justify the appropriate method for the written paper. They can identify and organize relevant literature. They can structure their topic, describe an overview of the current state of discussion in a field of research, work on the chosen question using original literature and evaluate the results. Students can assess and select which presentation techniques, formats and media are suitable for presenting their topic and justify their choice. They can present their topic to the course participants in an understandable way and then discuss and reflect on the results.</p>		
Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Seminar	Academic Research and Writing	German or English	20	2	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120009 / 334020009	obligatory	from 4 th
Wirtschaftswissenschaften (Zwei-Fach) / 334182009 / 334020009	elective	from 4 th
		from 4 th
Economics and Computer Science /334120005/ 334020009		from 4 th

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	presentation based on a written paper (graded), German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term

Summer semester	x		
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Christian Bayer, Prof. Dr. Hendrik Hakenes		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	<p>Relevant literature will be announced at the beginning of the course.</p> <p>Registration for the seminar is required via BASIS. The deadlines can be found on the Economics Examination Office website (https://www.econ.uni-bonn.de/examinations/de/termine).</p>		

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Applied Data Analytics

ECO-B0001



UNIVERSITÄT BONN

Content and learning outcome

Content	In this course, students are introduced to the practical analysis of data using the Python programming language. For this purpose, case studies are analyzed in group work every week. On the one hand, basic programming techniques are taught so that students feel confident in using the computer as a useful tool for analyzing economic relationships (e.g. graphical representation of functions, simulation of data, representation of distributions in data). On the methodological side, the application of descriptive statistical measures is practiced. Finally, typical challenges in the interpretation of empirical correlations are worked out. These include, for example, drawing premature conclusions from correlations to causal relationships or not taking selection effects into account.				
Learning outcome	<ul style="list-style-type: none">- Students apply basic programming techniques to analyze data and describe simple economic relationships.- Students use correct data types and transformations to analyze economic data in a typical form.- Students intuitively (i.e. not formally mathematically) describe the most common challenges in interpreting economic relationships (selection effects, measurement errors, causality, Goodhard's law, use of meaningful scales, overfitting, base rate neglect)- Students apply basic principles of good visualization (principle of proportional ink, meaningful scaling, representation of heterogeneity)- Students use simple descriptive statistics- Students critically classify quantitative statements in news items.				
Competence level	x 1 Knowledge	x 3 Application	5 Evaluation		
	x 2 Understanding	4 Analysis	6 Synthesis		
Teaching and learning methods					
Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Applied Data Analytics	German or English	500	2	30
Exercise	Exercise in Applied Data Analytics	German or English	30	2	30
Self-study					120
Prerequisites					
obligatory	none				
recommended	none				
Degree program allocation					
Study Program/Study Field/Module Number/Lecture Number			obligatory/ elective	Semester	
Volkswirtschaftslehre / / 334120001 / 334020001			obligatory	1 st	
Wirtschaftswissenschaften (Zwei-Fach) / 334182027 / 334020001			elective	from 3 rd	
Wirtschaftswissenschaften (Begleitfach) / 334172027 / 334020001			elective	from 3 rd	
Requirements for the awarding of credit points (ECTS)					Credits
Prerequisites for participation	none				6,0 CP
Types of Assessment Examination language	Weekly programming tasks with content-related questions on the interpretation of the results, graded., German or English				

Course Cycle		Workload	Duration
Winter semester	x	180 h	1 Term
Summer semester			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Matthias Kräkel		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Relevant literature will be announced at the beginning of the course.		

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Finance I

ECO-B0002



Content and learning outcome

Content
The module conveys basic financial knowledge. It covers the evaluation and comparison of different investment opportunities under perfect information about the financial returns, the investment decision under uncertainty, the basic features of the capital asset pricing model (CAPM) and fundamental properties of conditional financial contracts (options).

Learning outcome
Students can recall various investment opportunities that companies have. They can compare investment opportunities by assessing their advantages and disadvantages. They can analyze the most important types of financial contracts with the help of concepts for risk identification and risk assessment under uncertainty.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Finance I	German or English	500	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120002 / 334020002	obligatory	1 st
Wirtschaftswissenschaften (Zwei-Fach) / 334182002 / 334020002	elective	from 2 nd
Wirtschaftswissenschaften (Begleitfach) / 334172002 / 334020002	elective	from 2 nd

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam, graded/German or Englisch	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of the course.
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Finance II

ECO-B0003

Content and learning outcome

Content

This module deals with the financial reporting of companies. For this purpose, the purposes and addressees of the company's financial reports are derived. It is worked out how the firm's activities are recorded in the system of double-entry bookkeeping and how the financial statements present the status and development of the firm. It is examined what impact accounting regulations have on how the company's success is presented in the annual financial statements. Building on the understanding of financial statements, it is examined how financial statements can be analyzed and how accounting information can be used for the valuation of the firm.

Learning outcome

Students can explain the financial reporting obligations of companies and differentiate between the various accounting levels.
 They will be able to distinguish between flows and stocks and explain their relationship.
 They can recall the basic structure of a balance sheet and a profit and loss account and can explain their items.
 You will be able to recall the relationship between the balance sheet and the income statement in the double-entry bookkeeping system and explain accrual accounting.
 You will be able to differentiate between the most important legal frameworks for financial reporting and assess the influence of accounting regulations on the balance sheet and income statement.
 You will be able to evaluate financial reports and assess companies on the basis of their financial reports.
 You will be able to explain how financial reports are used to evaluate companies and prepare simple financial statements to evaluate companies.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Finance II	German or English	500	2	30
Self-study					60

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120003 / 334020003	obligatory	1 st
Wirtschaftswissenschaften (Zwei-Fach) / 334182003 / 334020003	elective	from 2 nd
Wirtschaftswissenschaften (Begleitfach) / 334172003 / 334020003	elective	from 2 nd

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	3,0 CP
Types of Assessment Examination language	Written exam, graded/German or English	

Course Cycle	Workload	Duration
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Winter semester	90 h	1 Term
Summer semester x		
Module coordination		
Teaching person	See https://basis.uni-bonn.de	
Module coordinator	Prof. Dr. Hendrik Hakenes	
Institute/Department	Department of Economics	
Further Information		
(e.g. literature)	Relevant literature will be announced at the beginning of the course.	

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Macroeconomics I

ECO-B0005



Content and learning outcome

Content	<p>This course addresses economic fluctuations and economic policy measures to tackle such fluctuations.</p> <p>Based on the discussion of empirical properties of macroeconomic variables, students learn fundamental structures of business cycle models. Equilibrium on the goods market and financial markets is motivated and employed for determining macroeconomic equilibrium.</p> <p>Concepts for explicitly handling expectation formation are introduced in a dynamic framework.</p> <p>Relying on fundamental parities for exchange rates, the treatment of business cycle models is extended to the open economy.</p>		
Learning outcome	<p>Students describe salient patterns of business cycle developments and analyze those with reference to business cycle models. Doing so, students are capable of interpreting business cycle developments and monetary developments in an explicit equilibrium framework.</p> <p>Students analyze relevant concepts of expectation formation quantitatively in dynamic models.</p> <p>Students discuss the scope and limitations of stabilization policy, in particular of fiscal and monetary policy.</p> <p>Students are capable of organizing the significance of the international context for addressing macroeconomic issues.</p> <p>Students combine their knowledge of methods with well-founded discussions of current or prominent historical examples for business cycle developments and economic policy.</p>		
Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Intermediate Macroeconomics I	German or English	450	4	60
Exercise	Exercise on Macroeconomics I	German or English	30	2	30
Self-study					135

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120005 / 334020005	obligatory	2 nd
Wirtschaftswissenschaften (Zwei-Fach) / 334182005 / 334020005	elective	from 2 nd
Wirtschaftswissenschaften (Begleitfach) / 334172005 / 334020005	elective	from 2 nd
Economics and Computer Science (ab WiSe 2026) / 334120005 / 334020005		from 4 th

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	9,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle		Workload	Duration
Winter semester		270 h	1 Term
Summer semester x			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Christian Bayer		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Literature will be announced in the lecture.		

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Mathematical Methods of Economics I

ECO-B0006



Content and learning outcome

Content	<ul style="list-style-type: none"> - Differential calculus, applications - Concave, convex functions - Optimization - Integration (introduction) - Functions of multiple variables - Multivariate optimization - Optimization with constraints
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Learning outcome	Students can apply mathematical concepts to economic contexts such as elasticities, marginal costs, comparative statistics, envelope theorem.
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Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; asynchronous digital	Mathematical Methods of Economics I	German or English	500	4	30
Exercise; presence	Exercise in Mathematical Methods of Economics I	German or English	500	2	30
Tutorial	Tutorial in Mathematical Methods	German or English	30	2	30

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120006 / 334020006	obligatory	1 st
Wirtschaftswissenschaften (Zwei-Fach) / 334182006 / 334020006	obligatory	1 st
Wirtschaftswissenschaften (Begleitfach) /334172006 / 334020006	obligatory	1 st
		2 nd

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	9,0 CP
Types of Assessment Examination language	Written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	270 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Regarding the language of instruction:
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	<p>Two identical courses, one in German and one in English; students must choose one exercise + one tutorial in German or one exercise + one tutorial in English.</p> <p>Literature: Sydsaeter Hammond Ström: Mathematik für Wirtschaftswissenschaftler (Chapters 6 to 8 and 11 to 14), Edition: up to 5th edition (chapters rearranged from 2023 onwards) / Essential Math. For Econ. Analysis Chiang Wainwright Nitsch: Mathematik für Ökonomen / Fundamental Methods of Math. Economics Merz Wüthrich: Mathematik für Wirtschaftswissenschaftler (additional exercise book) Schwarze: Mathematik für Wirtschaftswissenschaftler 2: Differential- und Integralrechnung Simon Blume: Mathematics for Economists</p>
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Microeconomics I

ECO-B0007



Content and learning outcome

Content
The module focuses on how individual behavior and markets can be modeled and analyzed. The general modeling approaches and methods introduced are used to investigate more specific questions in areas such as the effects of market interventions, international trade, climate policy, markets with asymmetric information or price discrimination.

Learning outcome
Students can recall how markets and strategic interactions work in markets and market-like situations.
They can understand the relevant specialist literature.
They can use general microeconomic models and methods to analyze economic issues related to the function of markets.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Microeconomics I	German or English	500	4	60
Exercise	Excercise on Microeconomics I	German or English	30	2	30
Self-study					180

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120007 / 334020007	obligatory	2 nd
Wirtschaftswissenschaften (Zwei-Fach) / 334182007 / 334020007	elective	from 2 nd
Wirtschaftswissenschaften (Begleitfach) /334172007 / 334020007	elective	from 2 nd

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	9,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	270 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Stephan Lauer mann
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Literature will be announced in the lecture.
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Principles of Economics

ECO-B0004



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Content and learning outcome

Content	<p>To illustrate basic economic concepts, students work in small groups on current economic policy topics.</p> <p>The necessary foundations of principles are taught in the lecture and practiced in online tests.</p> <p>The following microeconomic topics are covered: Basics of the neoclassical market model: Consumer decisions, Production decisions, Equilibrium and comparative statics Basics of price formation under different market structures: Perfect competition, Monopol, Cournot duopoly, Bertrand duopoly Basics of market regulation through state interventions: Tax, Subsidy, Price ceilings, Price floors, Basics of welfare economics analysis: Preferences and utility functions, Basic cost concepts, Production functions and cost functions, Consumer surplus, Producer surplus, Efficiency, Pareto principle The following macroeconomic topics are covered: Basic concepts of macroeconomic thinking, Concepts and principles of national accounts, Concepts and conceptual limits of macroeconomic aggregation to understand the meaning of empirical objects such as aggregate consumption, investment, government spending, unemployment, etc. Basic theoretical concepts, such as aggregate production functions and principles of macroeconomic equilibrium analysis. The focus is on macroeconomic goods market equilibria.</p>		
Learning outcome	<p>Students can recall basic microeconomic terms and outline basic market concepts. They can differentiate between basic economic policy measures and illustrate them using concrete economic policy decisions.</p> <p>They can reproduce and explain the central principles of national accounts. They can name macroeconomic aggregates and have an assessment of their proportions. They can explain simple macroeconomic model relationships and interpret the concept of a macroeconomic production function.</p> <p>They can express short-term macroeconomic fluctuations as results of goods market equilibria.</p> <p>They can work on simple economic questions in groups under supervision and present their results in writing (continuous text and presentation) using basic technical language.</p>		
Competence level	x 1 Knowledge	3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Principles of Economics: Macroeconomics (2 hpw) Principles of Economics: Microeconomics (2 hpw)	German or English	500	4	60
Exercise	Principles of Economics: Macroeconomics (1 hpw) Principles of Economics: Microeconomics (1 hpw)	German or English	30	2	30
Self-study					180

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
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Volkswirtschaftslehre / / 334120004 / 334020004		obligatory	1. st
Wirtschaftswissenschaften (Zwei-Fach) / 334182004 / 334020004		obligatory	1 st
Wirtschaftswissenschaften (Begleitfach) /334172004 / 334020004		obligatory	1 st
Requirements for the awarding of credit points (ECTS)			Credits
Prerequisites for participation	Tests Macroeconomics, Tests Microeconomics		9,0 CP
Types of Assessment Examination language	Partial examination 1: Essay plus presentation on macroeconomics (ungraded) Partial examination 2: Essay plus video presentation microeconomics (ungraded), German or English		
Course Cycle		Workload	Duration
Winter semester	x	270 h	1 Term
Summer semester			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Christian Bayer, Prof. Dr. Matthias Kräkel		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Literature: N. Gregory Mankiw, Mark P. Taylor: Principles of Economics, Schäffer-Poeschel, Stuttgart, current edition		

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Statistics

ECO-B0008



Content and learning outcome

Content
The module begins with an introduction to probability. Basic properties of random variables and several important classes of distributions are covered. Based on this, fundamental concepts of statistical inference are taught. The focus is on the theory of estimation and hypothesis testing.

Learning outcome
Students can recall basic concepts of probability and statistics.
They can select and apply appropriate procedures to calculate probabilities and related quantities.
They can also select and apply suitable procedures to solve problems in estimation and test theory.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Statistics	German or English	450	4	60
Tutorial	Tutorial Statistics	German or English	30	2	30
Self-study					180

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120008 / 334020008	obligatory	2 nd
Wirtschaftswissenschaften (Zwei-Fach) / 334182008 / 334020008	elective	from 2 nd
Wirtschaftswissenschaften (Begleitfach) / 334172008 / 334020008	elective	from 2 nd

Requirements for the awarding of credit points (ECTS)

	Credits
Prerequisites for participation	9,0 CP
Types of Assessment Examination language	
none	
written exam, graded/German or English	

Course Cycle	Workload	Duration
Winter semester	270 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Literature will be announced in the lecture.
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Advanced Corporate Finance

ECO-B0031



Content and learning outcome

Content
This course explores in depth how frictions such as taxes, agency conflicts, and imperfect information impact key corporate decisions such as capital budgeting, capital structure, and dividend policy. We then build on these insights to examine particular issues facing corporate managers, investors, and entrepreneurs, such as IPO and M&A. The lectures are complemented with case studies and classroom discussion of selected real-life events.

Learning outcome
Students can explain which factors in theory influence financial decisions in companies in order to analyze practical problems of corporate finance.
Students can use financial vocabulary in English.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Advanced Corporate Finance	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	Econometrics and Financial markets and financial institutions are recommended

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120031 / 334020031	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120031 / 334020031	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.
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Advanced Econometrics

ECO-B0030



Content and learning outcome

Content

The course treats advanced statistical and econometric methods.

The methodological and theoretical foundations are introduced and discussed.

The methods are illustrated and practiced through simulated or real data examples.

Possible topics: Nonlinear models, Limited dependent variables models, Selection models, Panel data, Time series, High-dimensional models, Bootstrap

Learning outcome

Students can recall basic properties of the methods and explain and apply fundamental concepts.

They can apply selected methods for data analysis and compare them with each other.

They can interpret test and estimation results and critically question them.

They can describe and evaluate the methods in the appropriate technical language.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Advanced Econometrics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Mathematical Methods in Economics II", "Statistics" and "Econometrics" are recommended for preparation.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Data Science / 334120030 / 334020030	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182030 / 334020030	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172030 / 334020030	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120030 / 334020030	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written or oral exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

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Applied Microeconometrics

ECO-B0059



Content and learning outcome

Content	Topics include (but are not limited to) the experimental ideal, causality, OLS, limited dependent variables, functional form, dummy variables, standard errors, hypothesis testing and inference, omitted variables bias, matching, measurement error, simultaneous equations, instrumental variables, regression discontinuity, difference-in-differences, panel data, fixed effects.		
Learning outcome	Theoretical understanding and empirical application of the basic methods in applied microeconometrics.		
Competence level	1 Knowledge	3 Application	5 Evaluation
	2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Applied Microeconometrics	English	40	4	60
Self-study					165

Prerequisites

obligatory	none
recommended	Introductory Econometrics

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120059 / 334020059	elective	5. th or 6. th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam or term paper/graded, English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Literature will be announced in the lecture.
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Auctions and Markets

ECO-B0021



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Content and learning outcome

Content	The module begins with the description and the equilibrium analyses of prevalent auction formats. After introducing the revenue equivalence theorem for standard auctions, the focus shifts to mechanism design and its applications for single-object auctions and bilateral trade.		
Learning outcome	Students are able to describe different auction formats and analyze strategic interaction in these auctions. Within this framework, they can apply the introduced game-theoretical and mathematical methods. They are able transfer and apply the central insights of mechanism design, like the revenue-equivalence principle, to practical contexts.		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Auctions and Markets	German or English	40	3	45
Classroom Exercise	Classroom Exercise Auctions and Markets	German or English	40	1	15
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Markets and Strategies / 334120021 / 334020021	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182021 / 334020021	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172021 / 334020021	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120021 / 334020021	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Stephan Laueremann
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.
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Bank Management

ECO-B0022



UNIVERSITÄT BONN

Content and learning outcome

Content	The module begins with an overview of the financial system and the functions and business areas of banks. It also delves into the microeconomic theory of banks. The origin of bank runs and banking crises are examined. Subsequently, the economic necessity and design of bank regulation are analyzed. This is followed by an exposition of the (external and internal) accounting of banks. In the final part of the module, bank risk management is addressed, with a focus on methods for measuring and controlling credit risks and interest rate risks.
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Learning outcome	The module teaches key concepts of bank management. It begins with a description of the financial system and the functions and business areas of banks. The existence of banks is also explained on the basis of microeconomic models. The theory of the bank is discussed. The causes for the existence of bank runs and banking crises are examined. Building on this, the economic necessity and the structure of bank regulation are then analyzed. This is followed by a presentation of banks' (external and internal) accounting systems. The last part of the module deals with banks' risk management and liquidity management, focusing on methods for measuring and managing credit risks, liquidity risks and interest rate risks. Finally, the effects of banks are empirically examined with regard to their macro- and microeconomic impact.
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Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Bank Management	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	"Financial Markets and Institutions" is recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120022 / 334020022	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120022 / 334020022	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination	
Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

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Content and learning outcome**Content**

The course introduces students to the topics and methods - empirical investigation and theoretical modeling - of behavioral economics.

Being the “the science which studies human behaviour as a relationship between ends and scarce means which have alternative uses” (Robbins, 1932), economics typically explains human behavior with the help of three fundamental concepts: means that are based on human needs or wants—often referred to as preferences, beliefs, in particular expectations regarding future events, and (budget) restrictions.

The interplay of these three concepts determines the incentives that drive human behavior. While these fundamental concepts are extremely helpful in economic analysis due to their universality, they are also very general. When applied, they need to be expressed in a much more specific manner. This requires auxiliary assumptions. In the standard economic model (Homo economicus), the auxiliary assumptions usually include complete and stable preferences, unlimited cognitive resources, error-free information processing, and the assumption of exclusively pursuing self-interest. Consequently, the standard model implies, for instance, the validity of the independence axiom in decision-making under risk, time consistency in intertemporal decisions, and non-cooperation in social dilemmas.

However, numerous studies—from economics as well as from psychology and neuroscience, based on both experimental and on field data—document behavior that is difficult to reconcile with the standard economic model. The field of behavioral economics (also known as psychology and economics) has emerged as a research area that replaces or supplements the auxiliary assumptions of the standard economic model by psychologically grounded aspects of human decision-making. This can be done in various ways: Sometimes the concepts of the standard model are adapted—such as the type of the assumed preferences or the way expectations are formed. Other times, psychological concepts are added to the analytical framework of economics, such as the concept of “attention” or the concept of “memory.”

Against this background, the contents covered by the course will be the following:

1. This course presents and discusses relevant empirical observations that are difficult to reconcile with the standard economic model.
2. Based on this empirical evidence, selected modeling approaches are presented that formalize the most important established phenomena. The modeling approaches can come from the field of non-standard preferences and from the field of bounded rational information processing.

From the former field, topics such as time-inconsistent decisions and self-commitment, loss aversion and ambiguity aversion, social preferences and social comparisons (e.g., regarding income differences) can be covered. From the latter field, topics such as framing and context effects and other attention-based effects, (biased) processing of feedback and self-perception, availability heuristic and selective memory, mental accounting, consequences of complexity, for example, flawed perception of incentives, and level-k reasoning can be covered. From the interaction of the two fields, topics such as violations of the independence axiom as well as motivated beliefs and confirmation bias can be covered.

3. Moreover, the implications of the presented theoretical models for important economic decision situations are discussed. Possible fields include savings decisions and other financial decisions, educational and career decisions, charitable donations, and environmentally conscious behavior.

	In this context, heterogeneity across individuals, e.g., regarding their preferences or their expectations, is also explored. 4. Finally, policy measures are discussed, and possible regulatory approaches are examined, i.e., insights are provided into so-called behavioral welfare analysis/behavioral public economics.				
Learning outcome	Students remember selected established phenomena as the result of empirical observations and can explain and interpret them - also to third parties outside their field of study. They can describe models of decision theory and distinguish alternative models from the standard economic model. They can explain the relationships between the models. Students can apply the models to related (everyday) situations in order to analyze and then discuss how "robust" a theoretical explanation for a behavior is likely to be, i.e. whether it only applies to a few situations or can be regarded as widely valid. Students are able to critically evaluate political or regulatory recommendations for action and check their suitability based on models.				
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation		
	x 2 Understanding	x 4 Analysis	6 Synthesis		
Teaching and learning methods					
Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Behavioral Economics	German or English	40	4	60
Self-study					120
Prerequisites					
obligatory	none				
recommended	compulsory modules, Microeconomics II, Econometrics				
Degree program allocation					
Study Program/Study Field/Module Number/Lecture Number			obligatory/ elective	Semester	
Volkswirtschaftslehre / Behavioral Economics / 334120057 / 334020057			elective	from 3 rd	
Wirtschaftswissenschaften (Zwei-Fach) / 334182057 / 334020057			elective	from 3 rd	
Wirtschaftswissenschaften (Begleitfach) / 334172057 / 334020057			elective	from 3 rd	
Economics and Computer Science / 334120057 / 334020057			Individual profile area	from 4 th	
Requirements for the awarding of credit points (ECTS)					Credits
Prerequisites for participation	none				6,0 CP
Types of Assessment Examination language	Written exam or presentation or written paper or essay or oral exam/graded, German or English				
Course Cycle			Workload	Duration	
Winter semester			180 h	1 Term	
Summer semester x					
Module coordination					
Teaching person	See https://basis.uni-bonn.de				
Module coordinator	Prof. Dr. Matthias Kräkel				
Institute/Department	Department of Economics				
Further Information					
(e.g. literature)	Relevant literature will be announced at the beginning of lecture.				



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Behavioral Finance

ECO-B0056



Content and learning outcome

Content
The module provides knowledge about (psychological) behavioral patterns that can affect the financial decisions of private investors and households, as well as influence corporate governance and the development of market variables. To this end, normative and descriptive theories of expectation formation and decision-making under risk and uncertainty are used to discuss the evidence from empirical and experimental studies.

Learning outcome
Students can describe behavioral patterns that can lead to distortions in financial decisions and consequently the development of market variables.
They are able to discuss the effect of potential measures to reduce financial errors.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Behavioral Finance	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	prior participation in the econometrics module is recommended

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Behavioral Economics; Corporation and Finance / 334120056 / 334020056	elective	from 3 rd
Economics and Computer Science / 334120056 / 334020056	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Literature will be announced in the lecture.
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Bounded Rationality

ECO-B0023



Content and learning outcome

Content
The course presents different approaches to modeling decision-making and strategic interactions with boundedly rational agents. Among other topics, the course covers models that allow for cognitive costs, limited attention, limited memory, limited knowledge of the underlying probability distribution (ambiguity), limited knowledge of the relevant contingencies (unawareness), and finite depth of reasoning (level-k). Laboratory experiments testing these theories are also discussed.

Learning outcome
Students can critically assess prevailing decision models and alternative approaches. They will gain a basic understanding of the decision theoretic foundations and the behavioral implications of the different models of bounded rationality. They will be able to apply these models to economic problems. Furthermore, the students learn methods with which the discussed models can be tested experimentally.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Bounded Rationality	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Behavioral Economics; Markets and Strategies / 334120023 / 334020023	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120023 / 334020023	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Stephan Lauer mann

Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Literature will be announced in the lecture.

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Causal Inference

ECO-B0038



Content and learning outcome

Content
The course treats statistical and econometric methods on how to separate causal effects from spurious correlations in data.
The methodological and theoretical foundations are introduced and discussed.
The methods are illustrated and practiced through simulated or real data examples.
Topics include: Potential outcomes, selection and unconfoundedness, treatment effects, instrumental variables, panel data, difference-in-differences, regression discontinuity

Learning outcome
Students can recall basic properties of the methods and explain and apply fundamental concepts.
They can apply selected methods for causal inference.
They understand which methods are appropriate in which settings, and they can interpret the results accordingly and critically question the underlying assumptions.
They can describe and evaluate the methods in the appropriate technical language.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Causal Inference	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Mathematical Methods in Economics II", "Statistics" and "Econometrics" are recommended for preparation.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Data Science / 334120038 / 334020038	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182038 / 334020038	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172038 / 334020038	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120038 / 334020038	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written or oral exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

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Collective Choice

ECO-B0039



Content and learning outcome

Content
This course presents a thorough treatment of theoretical topics in “collective choice” by highlighting the themes and methodologies that constitute the field. The course primarily focuses on the context of elections and voting. It also covers classical topics from social choice theory, mechanism design and various applied topics.

Learning outcome
Students can represent and analyze collective choice processes in strategic and formal models.
Within this framework, they can describe the different game-theoretical and mathematical methods and tools and can apply them in relevant economic problems. Students learn to name important abstract properties of choice methods and mechanisms and can discuss and interpret them.
Furthermore, they can compare and assess the inherent trade-offs and constraints in choosing a mechanism.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Collective Choice	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Markets and Strategies / 334120039 / 334020039	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182039 / 334020039	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172039 / 334020039	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120039 / 334020039	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or Englisch	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Stephan Laueremann
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.
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Computational Statistics

ECO-B0024



Content and learning outcome

Content
The course content includes statistical and econometric methods with a specific focus on their computer-assisted practical application. The methodological and theoretical foundations are introduced and discussed. The methods are illustrated and practiced through data examples. Possible examples include: Regression analysis, Statistical learning, Bootstrap, Classification analysis, Causal inference, Multiple testing

Learning outcome
Students can recall basic properties of the methods and explain and apply fundamental concepts. They can apply selected methods for data analysis and compare them with each other. They can interpret existing test and estimation results and critically question them. They can describe and evaluate the methods in the appropriate technical language.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Computational Statistics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	Prior participation in the following modules is recommended: Mathematical Methods in Economics I, Mathematical Methods in Economics II, Statistics, Econometrics

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Data Science / 334120024 / 334020024	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182024 / 334020024	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172024 / 334020024	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120024 / 334020024	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Literature will be announced in the lecture.
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Contract Theory

ECO-B0058



UNIVERSITÄT BONN

Content and learning outcome

Content
The module deals with the effects on private information on optimal contract design in bilateral principal agent relationships. The focus is on the cases with adverse selection where the agent possesses private information (hidden information) and with moral hazard where the agent chooses an action which only s/he observes privately. Applications to be discussed include the optimal price discrimination schemes by a monopolist or the optimal design of wage contracts.

Learning outcome
Participants can describe under which conditions and why the existence of private information contributes to economic inefficiencies.
They can recall the concepts of incentive compatibility and information rent.
In addition, they can analyze principal agent models and determine optimal contracts.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Contract Theory	German or English	40	3	45
Classroom Exercise	Classroom Exercise Contract Theory	German or English	40	1	15
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economics and Law; Markets and Strategies / 334120058 / 334020058	elective	from 3 rd
Economics and Computer Science / 334120058 / 334020058	elective	from 4 th
Law and Economics / 334120058 / 334020058	elective	from 5 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Stephan Lauer mann
Institute/Department	Department of Economics

Further Information

(e.g. literature) Literature will be announced in the lecture.

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Corporate Planning

ECO-B0055



UNIVERSITÄT BONN

Content and learning outcome

Content	This module deals with budgeting as an instrument of corporate management. Budgeting is understood as a period-related planning process of the firm and its sub-units. It also deals with the decision-theoretical foundations of planning and, based on this, examines their implementation within the framework of budgeting. Special emphasis is placed on the relation between long-term planning and its short- and medium-term implementation in budgeting. Further focal points of the course are the consideration of uncertainty in planning and the coordination function of budgeting in decentralized corporate planning.		
Learning outcome	Students can explain the basic principle of dynamic programming and period planning with the help of budgeting procedures in companies and organizations. They can apply both to problems of corporate planning in order to explain how long-term planning in companies and organizations is converted into short- and medium-term planning. They will be able to describe the effects of uncertainty and information asymmetries on corporate planning. Students will be able to assess how uncertainty can be taken into account in corporate planning with the help of sensitivity analyses and which contractual regulations are suitable for coordinating planning decisions under information asymmetries.		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Corporate Planning	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120055 / 334020055	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182055 / 334020055	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172055 / 334020055	elective	from 3 rd
Economics and Computer Science / 334120055 / 334020055	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle		Workload	Duration
Winter semester		180 h	1 Term
Summer semester	x		

Module coordination	
Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Matthias Kräkel
Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Literature will be announced in the lecture.

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Cost Management and Cost Accounting

ECO-B0040



UNIVERSITÄT BONN

Content and learning outcome

Content	This module deals with the production-economic foundations of cost accounting and the relevance of cost information for corporate decisions. Building on this, the basic structure and components of common cost accounting systems are addressed. It is examined in which way different cost accounting systems can be used to support corporate planning and for coordination in decentralized corporate management.		
Learning outcome	<p>Students can recall the basic structure of common cost accounting systems and their components and procedures.</p> <p>They can explain the relationships between cost theory and cost accounting.</p> <p>They can illustrate how production-economic relationships are represented by cost accounting.</p> <p>They can explain the influence of cost accounting on resource allocation.</p> <p>They can describe how cost accounting information can be used for coordination within the company.</p> <p>They can compare different cost accounting systems and contrast their advantages and disadvantages.</p> <p>In addition, students will be able to assess which cost accounting methods are suitable for solving specific operational decision-making problems and what influence they have on the achievement of the company's objectives.</p> <p>They can formulate recommendations for target-compliant company decisions using cost accounting methods.</p>		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Cost Management and Cost Accounting	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120040 / 334020040	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182040 / 334020040	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172040 / 334020040	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120040 / 334020040	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or Englisch	
Course Cycle	Workload	Duration

Winter semester	x	180 h	1 Term
Summer semester			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Matthias Kräkel		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Literature will be announced in the lecture.		

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Current Topics in Economics

ECO-B0020



UNIVERSITÄT **BONN**

Content and learning outcome

Content	<p>Students analyze current topics in economic research and discuss them in small groups. Topics include all areas of microeconomics, macroeconomics, financial market economics, statistics and econometrics.</p> <p>Methodologically, the focus is either on the theoretical foundations of economic research and its applications or on the in-depth analysis of economic data. Both laboratory data and field data can be used.</p> <p>Depending on the subject area, the focus can alternatively be on the analysis and discussion of current economic developments and the effectiveness of current economic policy decisions.</p>		
Learning outcome	<p>Students are able to explain current problems from various fields in economic research. They can apply state-of-the-art methods in theoretical or empirical economic research. Furthermore, they can analyze fundamental economic interrelationships. Students are able to evaluate the pros and cons of specific measures in economic or corporate policy. They can present, discuss and reflect on their results in writing and orally to third parties.</p>		
Competence level	1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Seminar	Current topics of Economics	German or English	15	2	30
Self-study					150

Prerequisites

obligatory	none
recommended	It is recommended not to take the seminar before the 5th semester.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334120020 / 334020020	elective	from 5 th
Economics and Computer Science / 334120020 / 334020020	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	presentation based on a written paper/graded, German or English	

Course Cycle		Workload	Duration
Winter semester	x	180 h	1 Term
Summer semester	x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Matthias Kräkel

Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Registration for the seminar is required via BASIS. The deadlines can be found on the Economics Examination Office website (https://www.econ.uni-bonn.de/examinations/de/termine).

** export into other study programs is only possible if contract between faculties exists*

Development Economics

ECO-B0026



Content and learning outcome

Content
The content of the module is the current state of the art in development economics. Using relevant and evidence-based empirical studies, the characteristics of developing countries and their methods of analysis are taught. Topics include income and poverty, inequality, human development, economic growth, agriculture, structural change, markets and trade, foreign aid, migration and governance. Case studies of success and failure stories are used to practice the application of analytical methods and the results are discussed together.

Learning outcome
Students will be able to analyze the challenges and opportunities of developing countries using various methods based on existing theories and empirical findings. They can critically discuss the advantages and disadvantages of certain empirical methods and theoretical approaches in development economics. They will be able to critically assess political measures to overcome development problems.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Development Economics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy / 334120026 / 334020026	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182026 / 334020026	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172026 / 334020026	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120026 / 334020026	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christian Bayer
Institute/Department	Department of Economics

Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

** export into other study programs is only possible if contract between faculties exists*

Economic Incentives and Institutions

ECO-B0047



UNIVERSITÄT BONN

Content and learning outcome

Content	<p>In this course we will address the question of how contractual relationships and institutions should be designed in order to give the relevant decision-makers economic incentives to behave in a desired manner.</p> <p>For example, an employer (principal) wants to motivate an employee (agent) to exert effort, or trade of a good should take place whenever the good is worth more to the buyer than to the seller. Problems of this kind are particularly interesting when information asymmetries exist. The chosen level of effort of an employee is often not observable or the quality of a good to be traded is private information of the seller. In order to compare different organizational forms (e.g. ownership structures), we examine how institutional designs of trading relationships affect the incentives to make non-contractable, relationship-specific investments.</p>		
Learning outcome	<p>Students will be able to identify different types of information asymmetries and classify them into model categories such as moral hazard and adverse selection.</p> <p>They will be able to apply the various model categories to specific problems.</p> <p>Students analyze problems with hidden action and/or bent information and determine optimal incentive schemes.</p> <p>They apply the theory of incomplete contracts to compare and evaluate different organizational structures based on the implied investment incentives.</p>		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Economic Incentives and Institutions	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	compulsory modules, Microeconomics II .

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance;Markets and Strategies;Quantitative Economics / 334120047 / 334020047	elective	from 3 rd
		from 5 th
Economics and Computer Science /334120047 / 334020047	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam or presentation or written paper or essey or oral exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term

Summer semester		
Module coordination		
Teaching person	See https://basis.uni-bonn.de	
Module coordinator	Prof. Dr. Matthias Kräkel	
Institute/Department	Department of Economics	
Further Information		
(e.g. literature)	Literature will be announced in the lecture.	

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Econometrics

ECO-B0046



UNIVERSITÄT BONN

Content and learning outcome

Content The module deals with the linear regression model, its application and verification, and its extensions.

Learning outcome The students acquire theoretical and practical foundations of econometrics. They can explain the properties of the linear regression model and the OLS estimator and can interpret the underlying assumptions. They learn the application of test theory in the context of the linear model, and they can identify and summarize problems in the specification of regression models and interpretation of estimation results. Students are able to implement advanced methods (e.g. panel data, instrumental variables). They are familiar with the basics of using econometric software to analyze data.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Econometrics	German or English	150	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	Mathematical Methods in Economics I, Applied Data Analysis, Statistics

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Behavioral Economics; Corporation and Finance; Data Science; Economic Policy; Quantitative Economics / 334120046 / 334020046	elective	3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182046 / 334020046	elective	3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172046 / 334020046	elective	3 rd
		5 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of lecture.
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Economic History

MECO-B0814



Content and learning outcome

Content
The module deals with central issues in the economic history of the modern world. These include the drivers of industrialization, the history of globalization, and the causes and consequences of economic and financial crises.
ENTWURFSTEXT

Learning outcome
Students learn about the evolution of modern economies over time, understand the importance of institutions to economic change, and become familiar with key economic history methods.
ENTWURFSTEXT

Competence level	1 Knowledge	3 Application	5 Evaluation
	2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Economic History	German or English	40	4	60
Self-study					120

Prerequisites

obligatory

recommended

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334128014 / 334028014	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334188010 / 334028014	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) /334178010 / 334028014	elective	from 3 rd

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam or term paper/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person See <https://basis.uni-bonn.de>

Module coordinator Prof. Dr. Christian Bayer

Institute/Department Department of Economics

Further Information

(e.g. literature) Literature will be announced in the lecture.

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Economics of Information

ECO-B0034



Content and learning outcome

Content This module is about the basics of strategic interactions in the presence of asymmetric information; in particular it is analysed how markets work in the presence of asymmetric information. It is explained where and which problems can arise in these markets. Finally, mechanisms are presented to overcome information asymmetries and their negative effects, such as signalling (especially jobmarket signalling) and screening.

Learning outcome Students can recall the functioning of markets with asymmetric information. They are able to identify and describe problems in such markets and develop solutions to market failures.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Economics of Information	German or English	40	3	45
Classroom Exercise	Classroom Exercise Economics of Information	German or English	40	1	15
Self-study					120

Prerequisites

obligatory none

recommended The modules "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Markets and Strategies / 334120034 / 334020034	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120034 / 334020034	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or Englisch	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person See <https://basis.uni-bonn.de>

Module coordinator Prof. Dr. Stephan Lauer mann

Institute/Department Department of Economics

Further Information

(e.g. literature) Relevant literature will be announced at the beginning of the lecture.

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Environmental Economics

ECO-B0053



Content and learning outcome

Content
The module deals with government measures to influence pollution and resource consumption, market failures due to externalities, environmental policy instruments, energy efficiency and energy efficiency regulation, cost-benefit analysis as an instrument of environmental economics, environmental goods, exhaustible and renewable resources, climate protection and implementation of climate protection in the energy sector.

Learning outcome
Students understand the relationship between the economy and the environment and are familiar with the background and development of environmental and resource economics. They can explain these.

They will be able to recall the theoretical foundations of external effects and environmental goods and describe the objectives and instruments of environmental policy.

They will be able to analyze the possible effects of environmental and climate protection measures using cost/benefit analyses.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Environmental Economics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy / 334120053 / 334020053	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182053 / 334020053	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172053 / 334020053	elective	from 3 rd
Economics and Computer Science / 334120053 / 334020053	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam or term paper or essay/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
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Module coordinator	Prof. Dr. Matthias Kräkel
Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of lecture.

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Experimental Economics

ECO-B0027



UNIVERSITÄT BONN

Content and learning outcome

Content
Economic experiments allow for the collection of behavioral data in a controlled manner. Typically, controlled laboratory or field studies are used to observe individual decisions of participants and investigate the interaction between participants. The high degree of control in experiments enables the testing of existing economic theories and provides the foundation for new theories. Experimental designs with a high degree of external validity also allow for the examination of the consequences of (political) measures and provide recommendations for future alternative courses of action.
This course introduces the fundamental assumptions and methods of experimental economic research, e.g., Vernon Smith's induced value theory, internal and external validity, causality, endogeneity and selection problems. Additionally, central experimental study designs and their results are discussed. The focus is on experiments related to private and public goods, covering both classical market situations and cooperation problems.

Learning outcome
Students can recall basic concepts of experimental economics research and explain and apply fundamental ideas.
They can apply selected experimental designs, use them to classify relevant economic problems, and compare them with each other.
They can interpret existing experimental results and critically examine the structure of the underlying studies.
They can work on experimental questions both individually and in groups, and communicate and evaluate their results in the appropriate professional language, both in writing and orally.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Experimental Economics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Behavioral Economics / 334120027 / 334020027	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182027 / 334020027	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334172027 / 334020027	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120027 / 334020027	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam or term paper/essay(s)/graded, German or English	

Course Cycle		Workload	Duration
Winter semester		180 h	1 Term
Summer semester x			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Matthias Kräkel		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.		

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Financial Markets and Institutions

ECO-B0029



UNIVERSITÄT BONN

Content and learning outcome

Content	The course offers insights into the inner workings of financial institutions and markets. For this purpose, we discuss in depth the cross-section of financial intermediaries, especially banks, which can be viewed as the supply side of capital. We then turn to the demand side, and analyze how firms optimally choose their capital structure (debt vs. equity financing, where debt can be in the form of bank credit). We discuss the build-up of associated risks and threats to financial stability, with particular reference to the Great Financial Crisis of 2007-2009. Finally, we discuss how regulation can help foster financial stability. In doing so, we discuss recent policy proposals, try to evaluate them, and generally refer to current events.		
Learning outcome	Students are familiar with the institutional details of capital-market and banking-market participants, and can explain how financial markets and institutions interact. They know the difference between debt and equity financing, and how to characterize a firm's optimal capital structure. They are furthermore familiar with the causes of financial crises, and can discuss various stabilization policies.		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Financial Markets and Institutions	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120029 / 334020029	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182029 / 334020029	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172029 / 334020029	elective	from 3 rd

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes

Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

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Financial Reporting and Business Valuation

ECO-B0054



UNIVERSITÄT BONN

Content and learning outcome

Content	With regard to company balance sheets, the structure and content of commercial balance sheets are primarily taught. After an introduction, recognition, measurement and disclosure are discussed. The section concludes with balance sheet analysis. The course content is deepened by means of integrated exercises. An introduction to the theoretical principles of company valuation is followed by an overview of the reasons for valuation, valuation standards and principles. The derivation of dividend expectations using integrated corporate planning and the derivation of the capitalization rate are then presented. Methods of company valuation (capital value-oriented methods, multiplier method) are taught. Students practise applying the methods using specific examples. Selected valuation problems are dealt with.		
Learning outcome	Students are familiar with the theoretical principles of practically relevant company valuation methods. They know the structure and content of company balance sheets (primarily commercial balance sheets) and methods for company valuation. They will be able to analyze company balance sheets on the basis of case studies using the methods they have learned. present and solve valuation problems.		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Corporate Balances and Business Valuation	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	Financial markets and financial institutions is recommended

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120054 / 334020054	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182054 / 334020054	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172054 / 334020054	elective	from 3 rd
Economics and Computer Science / 334120054 / 334020054	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of lecture.

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Game Theory

ECO-B0051



Content and learning outcome

Content
Game theory describes interactive decision problems from a formal point of view and develops various solution concepts which are supposed to describe the results of strategic interaction. The module critically presents selected advanced models, solution concepts and results of non-cooperative game theory and illustrates their application to economic problems.

Learning outcome
The participants acquire a profound understanding of interdependent decision situations as games.
They formulate mathematical models to capture the main aspects of these situations.
They analyze these situations with the help of various solution concepts of non-cooperative game theory.
This enables them to know the strategic aspects of economic, political and social interactions.
They can apply the solutions concepts independently to new questions.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Game Theory	German or English	40	3	45
Classroom Exercise	Classroom Exercise Game Theory	German or English	40	1	15
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Behavioral Economics; Economics and Law; Markets and Strategies / 334120051 / 334020051	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182051 / 334020051	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172051 / 334020051	elective	from 3 rd
Economics and Computer Science / 334120051 / 334020051	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Stephan Lauer mann

Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of lecture.

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Industrial Organization

ECO-B0033



UNIVERSITÄT BONN

Content and learning outcome

Content
The module starts with a presentation of the optimal pricing of a monopolist. In particular, the possibilities and effects of price discrimination are considered. Subsequently, the properties of imperfect competition are discussed using classical static and dynamic oligopoly models.
In the further course of the module, vertical market structures are presented.

Learning outcome
Students can describe how companies with market power make optimal strategic decisions.
Students can explain and discuss different concepts and models of competition. They are able to identify interaction between basic market parameters and corporate decisions.
Students can apply these Models to practical contexts and are able to analyse and evaluate different forms of government interventions.
They are able to apply instruments and methods of game theory to models of competition and know how to calculate equilibria.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Industrial Organization	German or English	40	3	45
Classroom Exercise	Classroom Exercise Industrial Organization	German or English	40	1	15
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy;Economics and Law;Markets and Strategies / 334120033 / 334020033	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182033 / 334020033	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) /334172033 / 334020033	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) /334120033/ 334020033	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
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Module coordinator	Prof. Dr. Stephan Lauer mann
Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

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International Accounting according to IFRS

ECO-B0037



Content and learning outcome

Content	The module covers the various aspects of accounting in accordance with IFRS. In the first part, basic knowledge (accounting theory, internationalization of accounting in Germany, institutional framework of IFRS, recognition and enforcement of IFRS, framework principles, reporting obligations, financial statements and notes, standards and interpretations) is taught. In the second part, the focus is on accounting for items that are relevant to the individual financial statements. Four subject areas (main items in the balance sheet, revenue and profit realization, additional items in the balance sheet, special topics) are covered. The third part deals with additional information to be published (e.g. key figures) and additional reports to be published (e.g. segment reporting). The last part covers the basics of group accounting (e.g. consolidation, business combinations) in accordance with IFRS.		
Learning outcome	Students will be able to recall and apply key accounting rules in accordance with International Financial Reporting Standards (IFRS). They can apply the basics of double-entry bookkeeping using practical examples. They will be able to reevaluate a balance sheet using practical examples, present initial and subsequent consolidations and prepare a consolidated balance sheet.		
Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	International Accounting according to IFRS	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	Financial markets and financial institutions is recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120037 / 334020037	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182037 / 334020037	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172037 / 334020037	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120037 / 334020037	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam/graded, German or Englisch	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

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International Economics

ECO-B0036



Content and learning outcome

Content	Empirical studies are used to explain why countries trade, what they trade and what gains result from trade. The concepts of comparative and absolute advantage, increasing returns to scale and trade, gains from diversity, self-sufficiency and trade equilibrium as well as the effects of trade on the goods market in the trading countries are discussed in detail. International trade policy, its objectives and consequences are also presented. This also applies to multinational trade agreements.		
Learning outcome	After completing this course, the students can describe welfare gains of trade for the trading partners. They can explain the potential mechanisms responsible for these gains. They can recall the most commonly used policy instruments to facilitate or restrict trade between countries and explain them. They will be able to identify the possible challenges to trade openness and their possible solution by employing the theory and empirics learned during the course.		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	International Economics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy / 334120036 / 334020036	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182036 / 334020036	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172036 / 334020036	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120036 / 334020036	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christian Bayer
Institute/Department	Department of Economics

Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.

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International Financial Contracts

ECO-B0035



Content and learning outcome

Content	The module begins with an overview of the most important financial contracts on the international financial market. Financial contracts in the money, capital, swap and foreign exchange markets are covered. The focus here is on interbank trading. The focus is on futures and derivative financial contracts, including structured products. In a second step, the cross-references of the various financial products are examined and their valuation and risk limitation are derived by means of suitable trading strategies.		
Learning outcome	Participants learn the structure and subdivision of the most important contracts in the international financial market. Based on their knowledge of the characteristics of the individual components, they assess their applicability and significance in practical situations. They apply basic risk identification and measurement techniques to assess and limit financial risks arising from changes in exchange rates, interest rates and share prices.		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	International Financial Contracts	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	Financial markets and financial institutions is recommended

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance / 334120035 / 334020035	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120035 / 334020035	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.
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Labor and Population Economics

MECO-B0813



UNIVERSITÄT BONN

Content and learning outcome

Content	TEXT fehlt		
Learning outcome	TEXT fehlt		
Competence level	1 Knowledge	3 Application	5 Evaluation
	2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Labor and Population Economics				
Self-study					

Prerequisites

obligatory	none
recommended	

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334128013 / 334028013	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334188011 / 334028013	elective	from 2 nd
Wirtschaftswissenschaften (Begleitfach) / 334178011 / 334028013	elective	from 2 nd

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christian Bayer
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Literature will be announced in the lecture.
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Macroeconomics II

ECO-B0041



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Content and learning outcome

Content

The course is designed for students who wish to extend their knowledge of macroeconomics, particularly in a methodological dimension, beyond that covered in Macroeconomics I.

It shows the role of labour markets and technological progress in shaping macroeconomic outcomes. It explains the concept of the micro-foundations of macroeconomic models and how to use basic statistical tools to analyse macroeconomic (time series) data. Finally, modern computer-based techniques are introduced to build and solve macroeconomic equilibrium models, such as those used by policy-making institutions to discuss policy options and make medium-term forecasts.

Learning outcome

At the end of the course, students can explain which analytical methods applied macroeconomists use to analyse macroeconomic developments.

They understand the microeconomic foundations of macroeconomic developments and can transfer these from one model/analysis framework to another.

Students understand the mechanisms of action in these models. They can verbally explain the basic impact mechanisms and bring them into a discussion on macroeconomic policy.

The students can enumerate the possibilities and limitations of macroeconomic analysis tools.

They are able to analyse simple macroeconomic models and data with the help of standard software, compile the results of their analysis in a textual manner and communicate it well-foundedly to experts and laypersons.

In doing so, students develop an idea of how they can apply their knowledge to applied macroeconomic work and how theoretical insights and data work go hand in hand.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Macroeconomics II	German or English	150	4	60
Tutorial	Tutorial Macroeconomics II	German or English	30	2	30
Self-study					90

Prerequisites

obligatory	none
recommended	

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy; Quantitative Economics / 334120041 / 334020041	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182041 / 334020041	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172041 / 334020041	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120041 / 334020041	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Prerequisites for participation	none	Credits 6,0 CP
Types of Assessment	written exam/graded, German or Englisch	

Examination language		
Course Cycle		Workload
Winter semester x		180 h
Summer semester		
		Duration
		1 Term
Module coordination		
Teaching person	See https://basis.uni-bonn.de	
Module coordinator	Prof. Dr. Christian Bayer	
Institute/Department	Department of Economics	
Further Information		
(e.g. literature)	Relevant literature will be announced at the beginning of the course.	

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Mathematical Methods of Economics II

ECO-B0042



Content and learning outcome

Content The module covers the following topics: Vectors, matrices, linear equations, linear mappings, determinants, scalar product, definiteness, Riemann integral, fundamental theorem of calculus, parameter integrals, Leibniz' rule, multi-dimensional integrals, distribution functions, Riemann-Stieltjes integral.

Learning outcome Students acquire basic knowledge of linear algebra and integration theory. They learn to apply these to economic problems.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Mathematical Methods of Economics II	German or English	150	4	60
Exercise	Exercise Mathematical Methods of Economics II	German or English	30	2	30
Self-study					90

Prerequisites

obligatory	none
recommended	The compulsory module "Mathematical Methods in Economics I" should have been completed.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Data Science;Markets and Strategies;Quantitative Economics / 334120042 / 334020042	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182042 / 334020042	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) /334172042 / 334020042	elective	from 3 rd

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Stephan Lauer mann
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beinning of lecture.
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Microeconomics II

ECO-B0043



UNIVERSITÄT BONN

Content and learning outcome

Content
The module covers the following basic subfields of microeconomics: Theory of decision under uncertainty and Analysis of monopoly and oligopoly markets

To this end, the required microeconomic tools and methods are carefully introduced, illustrated with examples of applications, and their fundamental importance to microeconomic analysis is emphasized. The module thus forms the basis for many later modules, such as Game Theory, Industrial Economics, and Auctions and Markets.

Learning outcome
Students will be able to explain and discuss the introduced models and concepts of microeconomics for the different topics and apply them to practical economic problems and scenarios in different contexts.

Students can describe how uncertainty and risk are quantified and evaluated and how decision problems under uncertainty can be solved as a function of risk preferences. Students can describe how strategic players choose their prices and quantities and calculate market solutions depending on market structure. Students recognize how market structure affects market equilibria and can explain their impact on welfare. Students can formally represent and analyze strategic decisions and situations. Students learn to differentiate the introduced instruments of game theory and their solution methods from each other, as well as to name and explain their characteristics. Students can apply the instruments and methods of game theory to strategic situations and economic problems and calculate solutions.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Microeconomics II	German or English	150	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I" and "Microeconomics I" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy;Economics and Law;Markets and Strategies;Quantitative Economics / 334120043 / 334020043	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182043 / 334020043	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) /334172043 / 334020043	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) /334120043/ 334020043	obligatory	3 rd

Requirements for the awarding of credit points (ECTS)

		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
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Winter semester	x	180 h	1 Term
Summer semester			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Stephan Laueremann		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Relevant literature will be announced at the beginning of lecture.		

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Monetary Policy

ECO-B0032



Content and learning outcome

Content	<p>Next to a few basic facts, the course introduces the work-horse models of monetary theory and policy, and of the interaction between monetary and fiscal policy. With the help of these models, participants discuss monetary policy strategies, the channels through which monetary policy affects inflation and real activity, and the possible limits of what monetary policy can achieve. The course puts particular emphasis, where needed, on the European context.</p>		
Learning outcome	<p>At the end of the course, students will be able to understand and critically reflect current and future policy decisions by central banks. They have a solid knowledge of the basic model frameworks of monetary economics and can solve the models mathematically. The students have understood the economic mechanisms in these models. They are able to explain the mechanisms verbally and bring them to bear on a discussion of monetary policy. Students know about the interaction of monetary policy with other policy areas, especially about possible budgetary effects or distributional effects of monetary policy measures. Students are able to understand or critically reflect on different viewpoints about monetary policy, based on the mechanisms inherent in the models. These skills are important, among other things, for later employment in central banks and ministries, as well as for financial market-related activities.</p>		
Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Monetary Policy	German or English	40	3	45
Classroom Exercise	Classroom Exercise Monetary Policy	German or English	40	1	15
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy / 334120032 / 334020032	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182032 / 334020032	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172032 / 334020032	elective	from 3 rd

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation		6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	
Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term

Summer semester		
Module coordination		
Teaching person	See https://basis.uni-bonn.de	
Module coordinator	Prof. Dr. Christian Bayer	
Institute/Department	Department of Economics	
Further Information		
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.	

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Multivariate Statistics

ECO-B0044



Content and learning outcome

Content
The module covers statistical methods for analyzing multivariate data. The methodological and theoretical foundations are introduced and discussed. The set of possible topics includes: Multivariate distributions, in particular the multivariate normal distribution, selected techniques of linear algebra, dimension reduction, for example through principal component analysis. The procedures are illustrated by examples.

Learning outcome
Students can recall fundamental concepts and basic properties of the procedures covered. They can select and apply appropriate methods of multivariate statistical analysis. They can calculate quantities that are relevant for the analysis of multivariate data.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Multivariate Statistics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Mathematical Methods in Economics II" and "Statistics" are recommended for preparation.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Data Science / 334120044 / 334020044	elective	from 3 rd
Economics and Computer Science / 334120044 / 334020044	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written or oral exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of lecture.
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Nonparametric Statistics

ECO-B0045



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Content and learning outcome

Content
The content of the course consists of statistical methods that largely do without restrictive parametric model assumptions.
Possible examples: classical rank and order statistics, nonparametric statistical hypothesis tests, nonparametric density estimation, nonparametric regression analysis.
The methodological and theoretical foundations are introduced and discussed.
The procedures are illustrated and practiced through data examples.

Learning outcome
Students can recall basic properties of the methods and explain and apply fundamental concepts.
They can apply selected methods for data analysis and compare them with each other.
They can interpret existing test and estimation results and critically question them.
They can describe and evaluate the methods in the appropriate technical language.

Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Nonparametric Statistics	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Mathematical Methods in Economics II", "Statistics" and "Econometrics" are recommended for preparation.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Data Science / 334120045 / 334020045	elective	from 3 rd
Economics and Computer Science / 334120045 / 334020045	Individual profile area	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written or oral exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information	
(e.g. literature)	Relevant literature will be announced at the beginning of lecture.

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Content and learning outcome

Content	<p>In a first step, the existence of firms and other organizations in a market context are explained. For this purpose, the building blocks of the New Institutional Economics approach (transaction costs, property rights and externalities, informational asymmetries, increasing economies of scales) are used.</p> <p>Vertical organizational problems are discussed, that is, problems between decision makers at different levels of a corporate hierarchy. The focus is on participation and delegation problems, on the optimal allocation of resources that are provided by the headquarters of a corporation, and on influence activities by employees.</p> <p>In part three of the module, horizontal organizational problems are discussed, that is, problems between decision makers at the same level of a corporate hierarchy. The main focus of this part lies on free riding in teams, on problems of coordinating the internal division of labor in firms, and on problems that arise from using relative performance evaluation.</p> <p>Part four of the module deals with management problems, that is, problems that arise from the separation of ownership and control in large managerial enterprises. Topics are, potential conflicting interests of shareholders and top managers. Here, the module also describes details of the German „Aktiengesellschaft“ and the US corporation. And discussions about, institutions and players that may govern the top managers’ discretionary decision-making.</p> <p>Finally further forms of organizations, like partnerships, cooperatives, and franchising are discussed.</p>		
Learning outcome	<p>Students are able to describe the main characteristics of the German “Aktiengesellschaft, the US corporation and other organizational forms like partnerships and cooperatives. In addition, they can identify the fundamental organizational problems in firms.</p> <p>Students can explain the existence of firms in a market context by using building blocks of the New Institutional Economics. Furthermore, they are able to explain the fundamental conflicting interests between shareholders and top managers of a corporation.</p> <p>Students are able to use mechanisms for solving internal allocation problems in situations with asymmetric information. They can calculate optimal incentive contracts to prevent shirking in firms.</p> <p>Students are able to determine optimal team incentives. They can discuss appropriate measures against influence activities by employees and against sabotage when employing relative performance evaluation.</p> <p>Students can judge the suitability of various institutions and players for governing the top managers of large corporations.</p>		
Competence level	x 1 Knowledge x 2 Understanding	x 3 Application x 4 Analysis	x 5 Evaluation 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Organisation und Management	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	compulsory modules, Microeconomics II.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number		obligatory/ elective	Semester
Volkswirtschaftslehre / Corporation and Finance;Economics and Law;Markets and Strategies / 334120048 / 334020048		elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182048 / 334020048		elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) /334172048 / 334020048		elective	from 3 rd
Economics and Computer Science /334120048/ 334020048		elective	from 4 th
Requirements for the awarding of credit points (ECTS)			Credits
Prerequisites for participation	none		6,0 CP
Types of Assessment Examination language	Written exam or presentation or written paper or essay or oral exam/graded, German or English		
Course Cycle		Workload	Duration
Winter semester	x	180 h	1 Term
Summer semester			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Matthias Kräkel		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Literature will be announced in the lecture.		

* export into other study programs is only possible if contract between faculties exists

Content and learning outcome

<p>Content</p>	<p>In the module, microeconomic theory – in particular, game theory and contract theory – is applied in order to analyze optimal decisions within the personnel policy of firms. In addition, persistently observed empirical patterns in personnel decision making are explained via microeconomic models. In a first step, the personnel policy decision makers in firms and the major goals of corporate personnel policy are introduced, as well as the decision makers’ underlying restrictions, their available instruments and possible conflicts of goals.</p> <p>Human capital theory, tracing back to Gary Becker, is one of the major theoretical foundations of the module. Human capital can be either accumulated on the job or off the job. The module shows that the degree of specificity of human capital determines, how costs and returns of human capital investments are shared between employees and employers. Empirical analyses of human capital investments are based on the early work of Jacob Mincer. They show that human capital theory has a high explanatory power for understanding the income profiles of employees over the lifecycle.</p> <p>Whereas human capital theory is particularly useful to discuss the allocation and matching goal of personnel policy, the incentive goal of personnel policy can be discussed by applying wage theories of the firm. For this purpose, the module gives an introduction into the theory of linear piece-rate systems, Edward Lazear’s bonding model, and efficiency wage theory. The latter is split up in the shirking model, the fluctuation-cost model, and the adverse-selection model.</p> <p>In a next step, the module introduces into the theoretical concept of information valuation. Arrow’s information paradox shows that information per se does not have a typical market price. Instead, the economic value of new information can be computed based on the quality of the underlying source of information. Bayes’ rule plays a prominent role in this kind of computation. The module shows, how the value of new information can be calculated in various situations in order to make optimal personnel decisions in firms. Furthermore, it is shown that empirical phenomena like systematic mistakes in recruiting can be explained by the concept of information valuation. Whereas the concept of information valuation is typically based on the assumption of symmetric uncertainty among employees and employers, the majority of information economics models assume asymmetrically distributed information between both parties. The module deals with theoretical models from this field that focus on signaling of employees via labor market certificates. In addition, the module discusses self-selection mechanism that are initiated by employers.</p>		
<p>Learning outcome</p>	<p>Students are able to describe the fundamental criteria for appropriately filling vacant positions, and different possibilities for motivating employees. In addition, they identify the players who are involved in personnel decisions in firms.</p> <p>Students can explain the existence of wage differentials between female and male workers, among industries, among firms of different size, and between different hierarchy levels. Furthermore, they are able to explain, why firms apply seniority rules for personnel decisions.</p> <p>Students can use new information to improve personnel decisions, and they are able to calculate the economic value of new information.</p> <p>They are able to determine optimal incentive schemes against the background of asymmetrically distributed information between employees and employers.</p> <p>The students can judge the suitability of personnel policies for optimal recruiting and matching, and whether a career policy of firms is incentive compatible or not.</p>		
<p>Competence level</p>	<p>x 1 Knowledge</p>	<p>x 3 Application</p>	<p>x 5 Evaluation</p>
	<p>x 2 Understanding</p>	<p>x 4 Analysis</p>	<p>6 Synthesis</p>
<p>Teaching and learning methods</p>			

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Personnel Economics	German or English	40	4	60
Self-study					120
Prerequisites					
obligatory	none				
recommended	compulsory modules, Microeconomics II.				
Degree program allocation					
Study Program/Study Field/Module Number/Lecture Number			obligatory/ elective	Semester	
Volkswirtschaftslehre / Corporation and Finance / 334120049 / 334020049			elective	form 3 rd	
Wirtschaftswissenschaften (Zwei-Fach) / 334182049 / 334020049			elective	form 3 rd	
Wirtschaftswissenschaften (Begleitfach) / 334172049 / 334020049			elective	form 3 rd	
Economics and Computer Science / 334120049 / 334020049			Individual profile area	from 4 th	
Requirements for the awarding of credit points (ECTS)					Credits
Prerequisites for participation	none				6,0 CP
Types of Assessment Examination language	Written exam or presentation or written paper or essay or oral exam/graded, German or English				
Course Cycle			Workload	Duration	
Winter semester			180 h	1 Term	
Summer semester x					
Module coordination					
Teaching person	See https://basis.uni-bonn.de				
Module coordinator	Prof. Dr. Matthias Kräkel				
Institute/Department	Department of Economics				
Further Information					
(e.g. literature)	Relevant literature will be announced at the beginning of lecture.				

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Political Economy

ECO-B0050



UNIVERSITÄT BONN

Content and learning outcome

Content Political economy examines the methods by which societies make collective decisions and how institutions affect economic outcomes. In this course, we will explore theoretical models in political economy based on non-cooperative game theory. We will examine how electoral competition influences policy choices and critically discuss the role of electoral accountability in shaping politicians' conduct. We will also discuss the determinants of political stability and the strength of institutions.

Throughout the course, we will consider the implications of these theoretical insights, occasionally incorporating empirical discussions to support our analysis.

Learning outcome After successfully completing the module, students can define and analyze theoretical models from political economy. Students can employ these models to reason abstractly about the functioning of electoral systems, politician's incentives, and the stability of political systems. Students can conduct critical assessments of the models' predictions in specific contexts and compare these predictions with empirical observations.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	x 6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Political Economy	German or English	40	3	45
Classroom Exercise	Classroom Exercise Political Economy	German or English	40	1	15
Self-study					120

Prerequisites

obligatory	none
recommended	the modules "Microeconomics I" and "Microeconomics II" are recommended.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy; Markets and Strategies / 334120050 / 334020050	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182050 / 334020050	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172050 / 334020050	elective	from 3 rd
Economics and Computer Science / 334120050 / 334020050	elective	from 4 th

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	written exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person See <https://basis.uni-bonn.de>

Module coordinator	Prof. Dr. Stephan Lauer mann
Institute/Department	Department of Economics
Further Information	
(e.g. literature)	Relevant literature will be announced at the beinning of lecture.

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Praktikum

ECO-B3001



Content and learning outcome

Content	The learning content is agreed with the employer at the beginning of the internship.		
Learning outcome	Students can apply economic knowledge and methods to practical issues in private or public companies, organizations, institutions or authorities. They are able to present economic issues in an understandable and target group-oriented manner (also to non-specialists). They can apply their theoretical knowledge in practice using appropriate tools. They can apply relevant interdisciplinary skills (communication, software application, project organization, programming, etc.) in a professional context.		
Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
	Internship				

Prerequisites

obligatory	
recommended	

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / / 334133001 / 334033001	elective	from 3 rd

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	Proof of internship (internship certificate from employer), internship report, 2 pages (ungraded)	6,0 CP
Types of Assessment Examination language	none,	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester x		

Module coordination

Teaching person	
Module coordinator	Prof. Dr. Dominik Liebl
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Further information on the internship can be found on the website of the Economics Examination Office (https://www.econ.uni-bonn.de/examinations/de).
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Content and learning outcome

Content	This module begins with an introduction to the revenue and expenditure structure of the state. Subsequently, essential normative and positive aspects of state activity are analyzed and critically examined on the basis of "perennial issues" and current examples, for example: Taxation today or in the future (debt), the costs and benefits of bureaucracy, the limits of regulation or income versus consumption taxation. As the largest cost block in the national budget, social policy measures receive special attention, particularly with regard to their insurance benefits from the perspective of households. Possible examples include various types of child and family support, reforms to the pension and health insurance system or the pros and cons of means testing.
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Learning outcome	<p>Students...</p> <ul style="list-style-type: none"> - structure the key dimensions of public finances in Germany. - describe the basics and special features of German income tax - describe the most important instruments of German social policy (social security contributions, SGB II, child supplement, child benefit/child allowance) - estimate the (fiscal) impact of policy measures. - assess the extent to which questions can be answered on a purely empirical basis. - find suitable data independently and format it for analysis. - calculate taxes and transfers using Python and GETTSIM. - carry out simple data analyses with Python and Pandas. - prepare their computer-aided results graphically. - work productively on issues in groups. - evaluate various contributions to constructive group work. - help their group members who have difficulties preparing for and following up on events. - represent their own point of view on financial and socio-political issues constructively in groups and in plenary sessions. - organize their working time independently. - summarize the important content and results of events independently. - reflect on their own contributions to group work. - question their own point of view on financial and socio-political issues.
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Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Public Finance and Social Policy	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	none

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Economic Policy / 334120028 / 334020028	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182028 / 334020028	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172028 / 334020028	elective	from 3 rd
Economics and Computer Science (ab WiSe 2026) / 334120028 / 334020028	elective	from 4 th

Requirements for the awarding of credit points (ECTS)		Credits	
Prerequisites for participation	none	6,0 CP	
Types of Assessment Examination language	Calculations: Weekly programming tasks with content-related questions to interpret the results/graded, German or English		
Course Cycle		Workload	Duration
Winter semester		180 h	1 Term
Summer semester x			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Matthias Kräkel		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Relevant literature will be announced at the beginning of the lecture.		

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Stochastic Models

ECO-B0052



Content and learning outcome

Content	The module provides an introduction to standard concepts and methods of stochastic modeling. Building on the basics of probability theory, various mathematical models for the description of stochastic systems are presented and analyzed.		
Learning outcome	Students can recall basic concepts of stochastic modeling. They can select and apply appropriate methods to analyze random phenomena. They can calculate relevant quantities for various stochastic models.		
Competence level	x 1 Knowledge	x 3 Application	5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Stochastic Models	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	The modules "Mathematical Methods in Economics I", "Mathematical Methods in Economics II" and "Statistics" are recommended for preparation.

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Data Science / 334120052 / 334020052	elective	from 3 rd
Wirtschaftswissenschaften (Zwei-Fach) / 334182052 / 334020052	elective	from 3 rd
Wirtschaftswissenschaften (Begleitfach) / 334172052 / 334020052	elective	from 3 rd

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	6,0 CP
Types of Assessment Examination language	Written or oral exam/graded, German or English	

Course Cycle	Workload	Duration
Winter semester x	180 h	1 Term
Summer semester		

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Christoph Breunig
Institute/Department	Department of Economics

Further Information

(e.g. literature)	Relevant literature will be announced at the beginning of lecture.
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Using Data to Address Societal Challenges

ECO-B0025



UNIVERSITÄT BONN

Content and learning outcome

Content

This course is designed to give students an introduction into how data is being used in recent research to understand and address economic and societal challenges. The course introduces students to frontier research in applied microeconomics.

Topics can, for example, include: Socioeconomic inequality and social mobility, Inequalities related to gender or ethnicity, Skills, education, training, Health, mental health, well-being, Job loss, job search, unemployment, Technological change and artificial intelligence, Climate change and the environment.

In the context of these topics, students are introduced to different types of data as well as different research methods. For example, the course may cover recent research using the following type of data: Cross-sectional and panel data, Administrative data, Large-scale survey data, Data from field experiments.

The course provides an introduction to some of the basic statistical methods and data analysis techniques used in recent empirical research, and provides an introduction to causal inference using experimental and quasi-experimental methods. For example, a non-technical introduction to the following methods can be provided in the context of the topics covered in this course: Regression analysis, Instrumental variables (IV) estimation, Difference-in-differences (DiD), Regression discontinuity design (RDD), Event studies, Field experiments.

The course will introduce students to how different types of data can be used to better understand the causes and consequences of different economic and societal challenges. The advantages and limitations of different data sources and research methods will be discussed. The course will also provide insights into how empirical research can be used to inform the public policy debate and economic policy making. Different policy solutions will be discussed and evaluated.

Learning outcome

Students are able to recognise and describe empirical patterns of research work on current economic and social challenges.

They are able to distinguish between different types of data and research methods in applied economic research.

They will be able to explain the advantages and limitations of different research methods.

They will be able to assess which data sources and research methods can be used to achieve which results on which topic in order to illustrate the causes and consequences of economic and social challenges.

You will be able to assess the empirical evidence of scientific research work.

They are able to summarise, compare and discuss the results of different research studies.

Competence level	x 1 Knowledge	x 3 Application	x 5 Evaluation
	x 2 Understanding	x 4 Analysis	6 Synthesis

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Using Data to Address Societal Challenges	German or English	40	4	60
Self-study					120

Prerequisites

obligatory	none
recommended	

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / Behavioral Economics;Data Science;Economic Policy / 334120025 / 334020025	elective	from 3 rd

Wirtschaftswissenschaften (Zwei-Fach) / 334182025 / 334020025		elective	from3 rd
Wirtschaftswissenschaften (Begleitfach) /334172025 / 334020025		elective	from3 rd
Economics and Computer Science (ab WiSe 2026) /334120025/ 334020025		elective	from4 th
Requirements for the awarding of credit points (ECTS)			Credits
Prerequisites for participation	none		6,0 CP
Types of Assessment Examination language	written exam/graded, German or English		
Course Cycle		Workload	Duration
Winter semester		180 h	1 Term
Summer semester x			
Module coordination			
Teaching person	See https://basis.uni-bonn.de		
Module coordinator	Prof. Dr. Matthias Kräkel		
Institute/Department	Department of Economics		
Further Information			
(e.g. literature)	Literature will be announced in the lecture.		

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