

University of Bonn  
Faculty of Law and Economics  
Department of Economics

## Course Catalogue

Bachelor Programs (PO 2016)

**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

BA VWL PF WISSARB



## Content and learning outcome

<b>Content</b>	General guidelines and techniques for the preparation of a presentation as well as a seminar paper or thesis will be taught. This includes literature research(2 SWS seminar of the ULB), formal requirements of a presentation and a written paper (such as structure, scope, outline,timing, citation, bibliography).The theoretical knowledge is practiced on practical examples based on economic topics. The participants create their own presentationas well as a seminar paper in the form of a term paper or essays.
<b>Learning outcome</b>	After completing the seminar, students will be able to use basic methods and contents of economics to solve a practical problem, to question and evaluate the results and to present and discuss them in front of the group of participants.

## 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	Max. 18	2	30-60
Selfwork	Preparation of the presentation; preparation of the term paper or essays				165-195
Teamwork	The presentation can also be planned as teamwork				165-196

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	It is recommended to take the seminar at a later point in the degree programme (not before the 4th semester), as economic research papers are discussed and presented in the seminar, which require at least basic knowledge of microeconomics, macroeconomics, business administration and quantitative methods, depending on the focus of the topic.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110050 / 333010050	obligatory	4 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181050 / 333010050	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Export* /333191050 / 333010050		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Presentation (graded, 40%), term paper or essays (graded, 60%)., The examination language is the same as the language of instruction (German or English); The presentation takes place in the second half of the semester. The homework must be handed in either before the presentation or 5 weeks after the end of the lecture period. The examiner determines the deadline.	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

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

<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics
<b>Further Information</b>	
<b>Literature</b>	<p>Due to the limited number of participants, an allocation procedure is carried out via BASIS. The registration deadlines are usually towards the end of the lecture-free period for the following semester. The exact registration periods can be found in BASIS or on the website of the examination office.</p> <p>Literature will be announced at the beginning of the lecture.</p>

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

# Econometrics

BA VWL PF ÖKON



## 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 develop a thorough understanding of the properties of the linear regression model and the OLS estimator, as well as the underlying assumptions. They learn the application of test theory in the context of the linear model and can identify problem in the specification of regression models and interpretation of estimation results. Students are familiar with advanced methods (panel data, instrumental variables). They are familiar with the basics of using econometric software.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Econometrics	German	430	4	60
Exercise	Tutorials on Econometrics	German	30	2	30
Self-study					135

## Prerequisites

**obligatory** none

**recommended** Contents of Mathematical Methods for Economics A, Mathematical Methods for Economics B, Introduction to Statistics A and Introduction to Statistics B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110015 / 333010015	obligatory	3 <sup>rd</sup> or 4 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181015 / 333010015	elective	3 <sup>rd</sup> or 5 <sup>th</sup>
Export* /333191015 / 333010015		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	x	225 h	1 Term
Summer term			

## Module coordination

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

**Module coordinator** Prof. Dr. Matthias Kräkel

**Institute/Department** Department of Economics

## Further Information

**Literature** Literature:  
Stock, James H. and Watson, Mark W.: Introduction to Econometrics, 3rd ed., Prentice Hall, 2011

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# Financial Markets and Institutions

BA VWL PF FINANZM



## Content and learning outcome

**Content**  
The module provides insights into the inner workings of financial markets and institutions. For this purpose, the different players in the financial system are presented, placing emphasis on banks. Furthermore, different forms of corporate financing are examined, in particular the difference between debt and equity financing. In addition, the risks that can arise in financial markets are highlighted, as the global financial crisis from 2007 to 2009 made clear. Finally, the question is how regulation can help manage these risks. An integral portion of the course is dedicated to understanding current developments.

**Learning outcome**  
The students will be familiar with the key players in the financial system and will be able to explain how financial markets and institutions work. They know the differences between debt and equity financing, and the determinants of the capital structure of non-financial corporations. They will be familiar with the causes of financial crises and can explain measures to stabilize the financial system.

## 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	500	4	60
Exercise	Tutorials on Financial Markets and Institutions	German	30	2	30
Self-study					

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110013 / 333010013	obligatory	1 <sup>st</sup> or 4 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181013 / 333010013	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333171013 / 333010013	elective	2 <sup>nd</sup> - 6
Export* /333191013/ 333010013		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	Winter and Summer term	225 h	1 Term
Summer term			

## Module coordination

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

**Module coordinator** Prof. Dr. Hendrik Hakenes

**Institute/Department** Department of Economics

## Further Information

**Literature** Literature:

	<ul style="list-style-type: none"><li>- Berk, Jonathan, und Peter DeMarzo, „Grundlagen der Finanzwirtschaft“, Pearson, 2015.</li><li>- De Haan, Jakob, Sander Oosterloo und Dirk Schoenmaker, „Financial Markets and Institutions: A European Perspective“, Cambridge University Press, 2015.</li></ul>
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# Intermediate Macroeconomics A

BA VWL PF MAKRO A



## Content and learning outcome

**Content** This module presents the basic model of macroeconomic equilibrium to explain empirical trends and regularities. The focus is on long-term relationships that are used to explain, in particular, the secular growth of aggregate income, as well as the development of employment, wages, interest rates and trade. On this basis, the possibilities and limits of economic policy to influence macroeconomic developments are discussed.

**Learning outcome** Participants learn to interpret long-term macroeconomic developments with the help of the basic theoretical models of macroeconomic equilibrium. They recognize the fundamental importance of labor supply, technological development and capital accumulation for macroeconomic growth and, on this basis, are enabled to critically assess economic policy discussions in this regard.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Intermediate Macroeconomics A	German	430	4	60
Lecture	Tutorials on Intermediate Macroeconomics A	German	30	2	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	Contents of the module Principles of Economics.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110011 / 333010011	obligatory	2 <sup>nd</sup> or 3 <sup>rd</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181011 / 333010011	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333171011 / 333010011	elective	2 <sup>nd</sup> - 6
Export* / 333191011 / 333010011		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

**Literature** Textbook: Makroökonomie von Olivier Blanchard und Gerhard Illing, 6. Auflage, Pearson Studium, 2014, bzw. vergleichbare Lehrbücher.

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# Intermediate Macroeconomics B

BA VWL PF MAKRO B



## Content and learning outcome

<b>Content</b>	This module presents models of macroeconomic equilibrium to account for mechanisms relevant in the short run. The focus is on theories of business cycle fluctuations, their causes and propagation. Reference to (and knowledge of) macroeconomic data (and their sources) plays an important role.
<b>Learning outcome</b>	Participants will become acquainted with modern tools for the macroeconomic analysis of business cycle fluctuations in income, employment, inflation and exchange rates. They will become familiar with the use of theoretical frameworks to assess current economic policy problems.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Intermediate Macroeconomics B	German	430	4	60
Exercise	Tutorials on Intermediate Macroeconomics B or Tutorials on Intermediate Macroeconomics B for students of teaching. ENTWURFSTEXT	German	30	2	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	Contents of the module Intermediate Macroeconomics A.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110012 / 333010012	obligatory	3 <sup>rd</sup> or 4 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181012 / 333010012	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333171012 / 333010012	elective	2 <sup>nd</sup> - 6
Export* / 333191012 / 333010012		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Textbook: Makroökonomie von Olivier Blanchard und Gerhard Illing, 6. Auflage, Pearson Studium, 2014, bzw. vergleichbare Lehrbücher.
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# Intermediate Microeconomics A

BA VWL PF MIKRO A



## Content and learning outcome

<b>Content</b>	The module introduces the main building blocks for the microeconomic analysis of competitive markets. Building on a formal presentation of the theory of consumer and firm behavior, the concepts of equilibrium and welfare analysis are presented and applied.
<b>Learning outcome</b>	The students should understand the mathematical model structure of decision and equilibrium theory and become familiar with the application and limitations of these models for answering microeconomic questions. They should be enabled to apply this knowledge independently to simple problems and be prepared to deepen and refine the methods in the elective modules of the third year of study.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Intermediate Microeconomics A	German	420	4	60
Exercise	Tutorial of Intermediate Microeconomics A	German	30	2	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the mandatory module Principles of Economics.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110009 / 333010009	obligatory	2 <sup>nd</sup> or 3 <sup>rd</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181009 / 333010009	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333171009 / 333010009	elective	2 <sup>nd</sup> - 6
Export* / 333191009 / 333010009		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezsö Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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# Intermediate Microeconomics B

BA VWL PF MIKRO B



## Content and learning outcome

<b>Content</b>	The substantive focus of the module is on the analysis of monopoly and oligopoly markets. The tools of modern microeconomics required for this are carefully introduced and illustrated by application examples.
<b>Learning outcome</b>	The students are familiar with the basic methodological tools of game theory, the theory of decision under uncertainty, and information economics, and understand the fundamental importance of these tools for microeconomic analysis. The module will therefore form the basis for many later modules, such as game theory, industrial economics, auctions and markets, and competition policy.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Intermediate Microeconomics B	German	420	4	60
Exercise	Tutorial of intermediate Microeconomics B	German	30	2	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the modules Principles of Economics and Intermediate Microeconomics A.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110010 / 333010010	obligatory	3 <sup>rd</sup> or 4 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181010 / 333010010	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333171010 / 333010010	elective	2 <sup>nd</sup> - 6
Export* / 333191010 / 333010010		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezsö Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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# Introduction to Statistics A

BA VWL PF STAT A



## Content and learning outcome

<b>Content</b>	The module deals with descriptive statistics. Basic methods for the analysis of univariate and multivariate data are discussed. Emphasis is placed on exploratory procedures to extract information from data. This includes graphical methods as well as the calculation and interpretation of important summary statistics.
<b>Learning outcome</b>	The students obtain a basic understanding of descriptive and exploratory methods to deal with economic data. They will be able to analyze complex data sets, to apply important exploratory techniques, and to interpret the results. The module forms a basis for more advanced courses.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Introduction to Statistics A	German	430	4	60
Exercise	Tutorials on Introduction to Statistics A	German	30	2	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	s

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110005 / 333010005	obligatory	1 <sup>st</sup> or 2 <sup>nd</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181005 / 333010005	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333171005 / 333010005	elective	2 <sup>nd</sup> - 6
Export* /333191005/ 333010005		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	x	225 h	1 Term
Summer term			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature sources introducing the topic are: - Fahrmeier, L., Künstler, R., Pigeot, I. und Tutz, G. (2004); Statistik; Springer Verlag. - Bamberg, G. und Baur, F. (2001); Statistik, Oldenbourg Verlag
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# Introduction to Statistics B

BA VWL PF STAT B



## Content and learning outcome

<b>Content</b>	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.
<b>Learning outcome</b>	The students first learn how to deal with probabilities. Furthermore, they acquire a basic methodological competence in the application and correct interpretation of statistical estimation and test procedures. The module forms a basis for further courses.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Introduction to Statistics B	German	430	4	60
Exercise	Tutorials on Introduction to Statistics B	German	30	2	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module Introduction to Statistics A is recommended

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110006 / 333010006	obligatory	2 <sup>nd</sup> or 3 <sup>rd</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181006 / 333010006	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333171006 / 333010006	elective	2 <sup>nd</sup> - 6
Export* / 333191006 / 333010006		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature sources introducing the topic are: - Fahrmeier, L., Künstler, R., Pigeot, I. und Tutz, G. (2004); Statistik; Springer Verlag. - Bamberg, G. und Baur, F. (2001); Statistik, Oldenbourg Verlag
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# Mathematical Methods for Economics A

BA VWL PF MATH A



## Content and learning outcome

<b>Content</b>	The theory of functions of one variable and the derivative of functions are taught. Functions with several variables are treated. Finally, solutions of simple optimization problems are shown with the help of this knowledge.
<b>Learning outcome</b>	The students acquire knowledge of differential calculus with one and several variables. They learn to apply this knowledge to economic problems.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Mathematical Methods for Economics A	German	350	4	60
Exercise	Tutorials on Mathematical Methods for Economics A	German	30	2	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333111007 / 333011007	obligatory	1 <sup>st</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181007 / 333011007	obligatory	1 <sup>st</sup>
Wirtschaftswissenschaften (Begleitfach) /333171007 / 333011007	elective	1 <sup>st</sup>
Export* /333191007/ 333011007		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	<p>Literature:</p> <ul style="list-style-type: none"> <li>Arens, T., Busam, R., Hettlich, F., Karpfinge, C., Stachel, H.: Grundwissen Mathema-tikstudium, Springer 2013</li> <li>Sydsæter, K., Hammond, P.: Mathematik für Wirtschaftswissenschaftl, 4. Aufl., Pearson Studium 2014</li> </ul> <p>(older editions from 2014 can also be used)</p>
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# Mathematical Methods in Economics B

BA VWL PF MATH B



## Content and learning outcome

<b>Content</b>	The module covers the following topics: Vectors, matrices, linearequations, linear mappings, determinants, scalar product, definiteness, Riemann integral, fundamental theorem of calculus, parameter integrals, Leibniz' rule, multi-dimensional integrals, distribution function, Riemann-Stieltjes integral, stochastic orders.
<b>Learning outcome</b>	Students acquire basic knowledge of linear algebra and integration theory. They learn to apply these to economic problems.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Mathematical Methods in Economics B	German	430	4	60
Exercise	Tutorials on Mathematical Methods in Economics B	German	30	4	30
Self-study					135

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the module Mathematical Methods for Economics A.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110014 / 333010014	obligatory	2 <sup>nd</sup> or 3 <sup>rd</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181014 / 333010014	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Export* / 333191014 / 333010014		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), German	

## Course Cycle

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezsö Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	<p>Literature:</p> <ul style="list-style-type: none"> <li>Sydsæter, K. und Hammond, P.: Mathematik für Wirtschaftswissenschaftler, 4. Auflage, Pearson Studium 2014</li> <li>Riedel, F. und Wichardt, P. C.: Mathematik für Ökonomen, 2. Auflage, Springer-Verlag, Berlin Heidelberg 2009</li> </ul>
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# Principles of Business Administration: Finance and Investments

BA VWL PF BWL IuF



## 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** The students learn to apply the basics of assessing investment opportunities. They understand basic steps of risk identification and risk assessment under uncertainty and use them to analyze key financial contracts.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Principles of Business Administration: Finance and Investments	German	500	4	60
Exercise	Tutorials on Principles of Business Administration: Finance and Investments	German	30	2	30
Selfwork					135

## Prerequisites

**obligatory** none

**recommended**

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110004 / 333010004	obligatory	1 <sup>st</sup> or 2 <sup>nd</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181004 / 333010004	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333171004 / 333010004	elective	2 <sup>nd</sup> - 6
Export* / 333191004 / 333010004		

## Requirements for the awarding of credit points (ECTS)

Requirements for participation	Types of Assessment Examination language	Credits
none	Written exam (graded, 100%), German	7,5 LP

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

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

**Module coordinator** Prof. Dr. Hendrik Hakenes

**Institute/Department** Department of Economics

## Further Information

**Literature** Literature will be announced at the beginning of the lecture.

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



# Principles of Business Administration: Introduction to the Theory of Firm

BA VWL PF BWL TdU



## Content and learning outcome

**Content**  
First, the basics of New Institutional Economics are explained. Building on this, the foundation of institutions and organizations, especially that of public corporations and private firms, can then be derived. Subsequently, organizational problems at as well as between hierarchical levels and possible solutions are discussed. Additional management problems caused by the separation of ownership and control in public corporations as well as various solutions to them are the topic of the next chapter of the module. Finally, alternative forms of organization (e.g., partnerships, franchising, cooperatives) are discussed.

**Learning outcome**  
The students will learn the most important arguments of the existence of companies. They will also learn basic knowledge about the division of labor in companies and the control of processes based on the division of labor. As a further objective, the basics of employee motivation are to be taught. The perspective chosen here is that of senior management.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Principles of Business Administration: Introduction to the Theory of Firm	German	500	4	60
Exercise	Tutorials on Principles of Business Administration: Introduction to the Theory of Firm	German	30	2	30
Self-study					135

## Prerequisites

**obligatory** none

**recommended**

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333110003 / 333010003	obligatory	1 <sup>st</sup> or 2 <sup>nd</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181003 / 333010003	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333171003 / 333010003	elective	2 <sup>nd</sup> - 6
Export* /333191003/ 333010003		

## Requirements for the awarding of credit points (ECTS)

	Credits
<b>Prerequisites for participation</b>	7,5 LP
<b>Types of Assessment Examination language</b>	
Written exam (graded, 100%), German	

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

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

**Module coordinator** Prof. Dr. Matthias Kräkel

**Institute/Department** Department of Economics

<b>Further Information</b>	
<b>Literature</b>	The module covers basic parts of the following book: Kräkel, M. (2012), Organisation und Management; 5th edition, Mohr-Siebeck, Tübingen.

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

# Principles of Economics

BA VWL PF VWL G



## Content and learning outcome

**Content**  
In order to clarify basic economic questions and concepts, current economic policy topics are worked on in small group project work in this module. The necessary basics of microeconomics and macroeconomics are taught by means of digital learning content and supporting lectures. In particular, consumption decisions of consumers, production decisions of companies, price formation under different market forms, regulation of markets through state intervention, economic accounting, economic growth, business cycles, inflation and unemployment are dealt with.

**Learning outcome**  
Students acquire a basic understanding of micro- and macroeconomic principles and understand macroeconomic issues. They know basic problems of economic policy and can understand micro- and macroeconomic economic policy decisions. They learn methods for analysing supply, demand and markets and acquire the ability to interpret macroeconomic data and facts. They can work on economic issues in groups under guidance and present their results in writing (continuous text and presentation) in basic technical language.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; (presence and digital), question time	Principles of Economics	German	500	4	60
Exercise; (presence)	Tutorials on Principles of Economics	German	10	2	30
Self-study; (individually and in a group)		German			135

## Prerequisites

**obligatory** none

**recommended** none

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / 333110016 / 333010016	obligatory	1 <sup>st</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333181016 / 333010016	obligatory	1 <sup>st</sup>
Export /333191016 / 333010016		

## Requirements for the awarding of credit points (ECTS)

	Credits
<b>Prerequisites for participation</b> Successful participation in weekly tests (successful = passing at least 3 macroeconomic and at least 3 microeconomic tests) as well as regular participation in (at least 8) exercises/tutorials as a prerequisite for admission to the module examination.	7,5 LP
<b>Types of Assessment Examination language</b> 1. two essays (max. 1500 words each), ungraded, German 2. creation and presentation of a PowerPoint presentation, ungraded, German, English	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

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

<b>Module coordinator</b>	Prof. Dr. Matthias Kräkel, Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics
<b>Further Information</b>	
<b>Literature</b>	<p>Literature:</p> <ul style="list-style-type: none"> <li>- N. Gregory Mankiw, Mark P. Taylor: Grundzüge der Volkswirtschaftslehre (German), Schäffer-Poeschel; 7th edition 2018.</li> <li>- Open source textbook "The Economy" at <a href="https://www.core-econ.org">https://www.core-econ.org</a></li> <li>- Lawrence Davidson, Andreas Hauskrecht and Jürgen von Hagen: Macroeconomics for Business. Cambridge: Cambridge University Press 2019</li> </ul> <p>Exam registration</p> <p>Special exam registration deadlines before and at the beginning of the lecture period!</p> <p>See under " Termine"/" Terminplan" <a href="https://www.vwlpamt.uni-bonn.de/pruefungsamt">https://www.vwlpamt.uni-bonn.de/pruefungsamt</a></p>

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

# Principles of Economics

M-B0004 16



## Content and learning outcome

<b>Content</b>	<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</p> <p>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>
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<b>Learning outcome</b>	<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.</p> <p>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>
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## 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	50	2	30
Self-study					180

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	none

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / 333111016 / 333011016	obligatory	1 <sup>st</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182016 / 333011016	obligatory	1 <sup>st</sup>

Wirtschaftswissenschaften (Begleitfach) /333172016 / 333011016				obligatory	1 <sup>st</sup>
Export /333190116/ 333011016					
<b>Requirements for the awarding of credit points (ECTS)</b>					<b>Credits</b>
<b>Prerequisites for participation</b>	Tests Macroeconomics, Tests Microeconomic				7,5 LP
<b>Types of Assessment Examination language</b>	Partial examination 1: Essay plus presentation on macroeconomics (ungraded) Partial examination 2: Essay plus video presentation microeconomics (ungraded), German or English				
<b>Course Cycle</b>			<b>Workload</b>	<b>Duration</b>	
Winter term	x	Winter and Summer term	225 h	1 Term	
Summer term					
<b>Module coordination</b>					
<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>				
<b>Module coordinator</b>	Prof. Dr. Christian Bayer, Prof. Dr. Matthias Kräkel				
<b>Institute/Department</b>	Department of Economics				
<b>Further Information</b>					
<b>Literature</b>	Literature: N. Gregory Mankiw, Mark P. Taylor: Principles of Economics, Schäffer-Poeschel, Stuttgart, current edition				

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# Advanced Corporate Finance

BA VWL WPF ACORPPFIN



## 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**  
The students gain a theoretical understanding of what drives financial decisions in a firm. The students develop skills to analyze practical corporate finance problems using the theoretical insights. The students will be exposed to English vocabulary used in finance and economic contexts.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; with integrated tutorial	Advanced Corporate Finance/ Fortgeschrittene Unternehmens- finanzierung	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	English proficiency
<b>recommended</b>	Basic knowledge in finance, microeconomics, and mathematic.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122003 / 333022003	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192203 / 333022003		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written or oral exam or piece of homework (graded, 100%), The examination language corresponds to the course language	

## Course Cycle

Course Cycle	Workload	Duration
Winter term Summer term	225 h	1 Term

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Detailed reading list will be provided during the course.
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*\* export into other study programs is only possible if contract between faculties exists*

# Applied Microeconometrics

BA VWL WPF AMICMETRICS



## Content and learning outcome

<b>Content</b>	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.
<b>Learning outcome</b>	Theoretical understanding and empirical application of the basic methods in applied microeconometrics.

## 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

<b>obligatory</b>	none
<b>recommended</b>	Introductory Econometrics

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121023 / 333021023	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192123 / 333021023		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	None	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), English	

## Course Cycle

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Matthias Kräkel
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	<p>Main Textbooks:</p> <ul style="list-style-type: none"> <li>Joshua Angrist and Jörn-Steffen Pischke, Mastering 'Metrics: The Path from Cause to Effect, Princeton University Press, 2014.</li> <li>Stock, James H., and Mark W. Watson. Introduction to Econometrics: Global Edition. Pearson Education, 2012.</li> </ul> <p>Other textbooks:</p> <ul style="list-style-type: none"> <li>Heiss, Florian. Using R for Introductory Econometrics. 2016.</li> <li>Wooldridge, Jeffrey. Introductory econometrics: A modern approach. Cengage Learning, 2012.</li> </ul>
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	<ul style="list-style-type: none"><li>• Badi H. Baltagi, <i>Econometrics</i>, Springer, 2001.</li><li>• Verbeek, Marno. <i>A guide to modern econometrics</i>. John Wiley &amp; Sons, 2008.</li></ul>
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*\* export into other study programs is only possible if contract between faculties exists*

# Auctions and Markets

BA VWL WPF AUKMARKT



## Content and learning outcome

<b>Content</b>	The module begins with the basic theory of equilibrium behavior and revenue management in single-object standard auctions. 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.
<b>Learning outcome</b>	The students learn to analyze strategic behavior in auctions and to compare auction formats in terms of efficiency and yield. They also learn the basics of the general theory of mechanism design.

## 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	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module based on the contents of the mandatory modules Intermediate Microeconomics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121002 / 333021002	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192102 / 333021002		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	see <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezső Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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\* export into other study programs is only possible if contract between faculties exists

# Bank Management

BA VWL WPF BANK



## Content and learning outcome

**Content**  
The module begins with a presentation of the financial system and the functions and business areas of banks. Microeconomic theory models in banking are discussed in some detail. Further, the economic necessity and design of the regulation of banks are analyzed. This is followed by a presentation of banks' external and internal reporting standards. The last part of the module deals with risk management in banks, focusing on methods for measuring and managing credit risks and interest rate risks.

**Learning outcome**  
Participants learn about the main business areas of a bank and the role of banks in the financial system of an economy. They understand the need for regulation of banks and learn about existing regulatory requirements and are able to interpret them. The module also provides essential knowledge about the (external and internal) accounting standards of banks and about the risk management of banks. It is designed to prepare students for activities in banks, NGOs, and supervisory authorities.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the module Financial Markets and Institutions.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122002 / 333022002	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182202 / 333022002	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172202 / 333022002	elective	2 <sup>nd</sup> - 6
Export* / 333192202 / 333022002		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

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

**Module coordinator** Prof. Dr. Hendrik Hakenes

**Institute/Department** Department of Economics

## Further Information

**Literature**  
A comprehensive introductory literature source on the subject is:  
Hartmann-Wendels, Th., A. Pfingsten und M. Weber (2004): Bankbetriebslehre, 3. Auflage, Springer-Verlag

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

# Behavioral Finance

BA VWL WPF BEFINANCE



## Content and learning outcome

**Content**  
The objective of the module is to provide bachelor students with a broad understanding of how human psychology affects financial decisions, with specific reference to the impact on personal and household financial decisions, corporate finance and financial markets. For this purpose, the module presents a variety of normative and descriptive theories of expectation formation and decision making under risk and uncertainty and discusses them in light of evidence from empirical and experimental studies.

**Learning outcome**  
The course will provide students with an understanding of how human psychology leads to biases and mistakes in financial decisions and how these biases, in turn, can help us understand economic and market outcomes. At the end of the course, students should further be able to reason abstractly about potential ways to mitigate mistakes and improve economic outcomes.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	Good working knowledge of English.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 3331222013 / 333022013	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182213 / 333022013	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Export* /333192213 / 333022013		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	None	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

**Literature**  
Barberis, Nicholas, and Richard Thaler (2003): "A survey of behavioral finance", in Handbook of the Economics of Finance, Chapter 18, pp. 1053-1128.  
Eisenführ, Franz, and Martin Weber, and Thomas Langer (2010): "Rational Decision Making", Springer Berlin Heidelberg

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# Bounded Rationality

BA WPB VWL BOUNDRAT



## 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 limited knowledge of the relevant contingencies (unawareness), limited knowledge of the underlying probability distribution (ambiguity), limited attention, limited memory, and finite depth of reasoning (level-k). Laboratory experiments testing these theories are also discussed.

**Learning outcome**  
The students learn mathematical economic models from decision theory and behavioral economics. At the end of the course, students should be familiar with a range of modelling approaches that account for bounded rationality and they should be able to apply them to different economic problems.

## 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					165

## Prerequisites

**obligatory** none

**recommended**

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121028 / 333021028	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192128 / 333021028		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or oral exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

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

**Module coordinator** Prof. Dr. Dezsö Szalay

**Institute/Department** Department of Economics

## Further Information

**Literature** Literature will be announced at the beginning of the lecture.

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

# Budgeting

BA VWL WPF UPLANUNG



## Content and learning outcome

<b>Content</b>	This module deals with budgeting as an instrument of corporate management. Budgeting is understood as a period-related planning process for the entire company and its subunits and functions. The module deals with the decision-theoretical foundations of planning and, building on this, examines their implementation within the framework of budgeting.
<b>Learning outcome</b>	In this module, the essential techniques of budgeting and their application for decision support are to be learned. Through the reference to decision theory, students obtain the ability to assess budgeting approaches with regard to their application and limitations and to use them in an appropriate manner.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Budgeting	German or English	50	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the mandatory module Principles of Business Administration: Introduction to the Theory of Firm

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122006 / 333022006	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182206 / 333022006	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172206 / 333022006	elective	2 <sup>nd</sup> - 6
Export* /333192206/ 333022006		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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\* export into other study programs is only possible if contract between faculties exists



# Causal Inference



## 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.

## 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

<b>obligatory</b>	none
<b>recommended</b>	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 / 333122014 / 333022014	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182214 / 333022014	elective	from 2 <sup>nd</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172214 / 333022014	elective	from 2

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	written or oral exam/graded, German or English	

## Course Cycle

Course Cycle		Workload	Duration
Winter term		225 h	1 Term
Summer term	x		

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christoph Breunig
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced in the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# Collective Choice

BA VWL WPF CCHOICE



## 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 main topics covered are classical topics from social choice theory, mechanism design, as well as non-cooperative models of elections, voting in committees, agenda selection, and legislative bargaining. Finally, the course considers a selection of some applied topics such as coordination games and revolutions, shareholder voting, persuasion and campaigning, norm enforcement in societies, and the dynamics of political campaigns and institutions.

**Learning outcome**  
The students learn mathematical economic models from information economics and game theory (cooperative and non-cooperative). At the end of the course, students should be able to use these models to reason abstractly about the functioning of various forms of organizations and institutions for solving collective choice problems and to apply these models critically to specific environments.

## Teaching and learning methods

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

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	English Proficiency, basic notions of game theory

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121026 / 333021026	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192126 / 333021026		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), English	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

<b>Teaching person</b>	see <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezsö Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

**Literature**  
Literature will be announced at the beginning of the lecture.

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

# Computer-aided Statistical Analysis

BA VWL WPF COMPSTAT



## Content and learning outcome

<b>Content</b>	This computer-based course deals with tools for visualizing data and dependencies between different data series. The idea is to let the data speak to discover anomalies in the data and find clues to relationships between different variables. The possibilities (and limitations) of data processing and data analysis using statistical software are highlighted during the course. Examples and exercises accompany the theoretical explanations.
<b>Learning outcome</b>	Students learn how to recognize data structures and translate them into suitable models. Differentiated handling of important statistical methods is practiced. Experience with statistical software is acquired during evaluation and interpretation.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Computer-aided Statistical Analysis	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the obligatory modules Introduction to Statistics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333123003 / 333023003	elective	5 <sup>th</sup> / 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182303 / 333023003	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172303 / 333023003	elective	2 <sup>nd</sup> - 6
Export* /333192303/ 333023003		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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\* export into other study programs is only possible if contract between faculties exists



# Contract Theory

BA VWL WPF VERTRAG



## 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 will learn under which conditions and why the presence of private information causes economic inefficiencies. In particular, students will learn the concepts of incentive compatibility and information rents. In addition, students will acquire the skill to analyse principal agent models and to determine optimal contracts.

## 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	4	60
Self-study					165

## Prerequisites

**obligatory** none

**recommended**

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121017 / 333021017	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192117 / 333021017		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	x	225 h	1 Term
Summer term			

## Module coordination

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

**Module coordinator** Prof. Dr. Dezsö Szalay

**Institute/Department** Department of Economics

## Further Information

**Literature**  
Recommended literature:  
- Laffont, J.-J. and D. Martimort: The Theory of Incentives, The Economic Journal, Vol. 113, No. 488, Features (Jun., 2003), pp. F394-F395

	- Bolton, P. and M. Dewatripont: Contract Theory, MIT Press, Cambridge 2005
	- Schweizer, U.: Vertragstheorie, Tübingen: Mohr Siebeck, 1999
	- Salanie, B. The Economics of Contracts. 2. Ed., Cambridge, Mass. u.a.: MIT Press, 2005
	- Macho–Stadler, I. and J. D. Perez–Castrillo: An Introduction to the Economics of Infor-mation: Incentives and Contracts, 2.e., Oxford u.a.: Oxford Univ. Press, 2001

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

# Cost Management and Cost Accounting

BA VWL WPF KOSTEN



## Content and learning outcome

<b>Content</b>	This module deals with the production theoretical foundations of cost accounting and the role of cost information for corporate decisions. Building on this, functions and sub-areas of traditional cost accounting systems as well as more recent developments in cost accounting and cost management are discussed.
<b>Learning outcome</b>	In this module, students will acquire the ability to evaluate designs of cost accounting systems applied in corporate practice with regard to their capability of facilitating short-term and long-term decisions. In addition to the knowledge of common cost accounting systems, they will gain understanding of the background of production theory and the information requirements of typical corporate decision problems.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122005 / 333022005	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182205 / 333022005	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172205 / 333022005	elective	2 <sup>nd</sup> - 6
Export* / 333192205 / 333022005		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	<ul style="list-style-type: none"> <li>Ewert, R., A. Wagenhofer, Interne Unternehmensrechnung, 8. Auflage, Springer 2014</li> <li>Fandel, G, B. Heuft, A. Paff und T. Pinz, Kostenrechnung, 2. Auflage, Springer 2004</li> <li>Varian, H., Microeconomic Analysis, 3. Auflage, Norton 1992 bzw. Mikroökonomie, 3. Auflage, Oldenbourg 1994</li> </ul>
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\* export into other study programs is only possible if contract between faculties exists



# Development Economics

BA VWL WPF DEVELOP



## Content and learning outcome

**Content**  
In this course, students will learn about the current state of the art in development economics. To understand the characteristics of developing countries and what it implies for the way we analyze them, students will learn about the relevant theoretical and evidence-based empirical background. The course will cover a range of topics, from income and poverty, inequality, human development, economic growth, agriculture, structural transformation, to markets and trade, foreign aid, migration and governance. By analyzing case studies of success and failure stories students have find to out what works for development, what doesn't and assess these ideas critically.

**Learning outcome**  
The module is designed to provide students with the essential tools and concepts of development economics. At the end of the course, students should be able to understand the specific challenges and opportunities of developing economies, and analyze them drawing on existing theories and empirical evidence. They should be able to critically assess various policy responses to development problems.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	Good working knowledge of English.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121015 / 333021015	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182115 / 333021015	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172115 / 333021015	elective	2 <sup>nd</sup> - 6
Export* /333192115/ 333021015		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	None	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	x	225 h	1 Term
Summer term			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Suggested textbooks: <ul style="list-style-type: none"> <li>De Janvry, A., &amp; Sadoulet, El. (2016). Development Economics. Theory and Practice. Routledge.</li> </ul>
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	<ul style="list-style-type: none"> <li>• Taylor, J. E., &amp; Lybbert, T. J. (2015). Essentials of Development Economics. University of California Press.</li> <li>• Ray, D. (1998). Development Economics. Princeton University Press.</li> </ul> <p>Additional suggested readings:</p> <p>Books:</p> <ul style="list-style-type: none"> <li>• Sen, A. (1999). Development as Freedom. Oxford University Press.</li> <li>• Banerjee, A. &amp; Duflo, E. (2012). Poor Economics: A Radical Rethinking of the Way to Fight Global Poverty. Public Affairs.</li> <li>• Easterly, W. (2001). Elusive Quest for Growth. Economists' Adventures and Misadventures in the Tropics. MIT Press.</li> <li>• Selected chapters of Handbook of Development Economics. North Holland.</li> </ul> <p>Journal articles: A detailed list to be provided before the beginning of the course.</p>
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*\* export into other study programs is only possible if contract between faculties exists*

# Economic History

BA VWL WPF WIGESCHI



## Content and learning outcome

<b>Content</b>	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
<b>Learning outcome</b>	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

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121019 / 333021019	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182119 / 333021019	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172119 / 333021019	elective	2 <sup>nd</sup> - 6
Export* / 333192119 / 333021019		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

<b>Teaching person</b>	see <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Introducing literature: <ul style="list-style-type: none"><li>• Karl Gunnar Persson, An Economic History of Europe: Knowledge, Institutions and Growth. New York: Cambridge University Press, 2010.</li><li>• Michael D. Bordo, Alan M. Taylor and Jeffrey G. Williamson (Hrsg.), Globalization in Historical Perspective. Chicago: University of Chicago Press, 2003.</li><li>• Toni Pierenkemper, Wirtschaftsgeschichte. Die Entstehung der modernen Volkswirtschaft, Akademie Verlag, Berlin 2009.</li></ul>
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	<ul style="list-style-type: none"><li>• Carmen M. Reinhart and Kenneth S. Rogoff, <i>This Time is Different: Eight Centu-ries of Financial Folly</i>. Princeton, NJ: Princeton University Press, 2009.</li></ul>
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*\* export into other study programs is only possible if contract between faculties exists*

# Empirical Corporate Finance

BA VWL WPF EMPCORP



## Content and learning outcome

**Content**  
This course deals with select topics in corporate finance. These topics include capital structure, payout policy, equity financing, corporate control and governance as well as executive compensation. Theoretical concepts are discussed to the extent that they are relevant to understand the underlying economic mechanisms and to derive empirical implications. This course focuses on the design of empirical tests of these implications. In particular, the course deals with how to establish a close link between theory and data and how to address endogeneity problems. In the tutorial, students will be introduced to perform empirical analysis using Stata.

**Learning outcome**  
This module is designed to make students familiar with fundamental issues in corporate finance, to introduce them into basic research methodologies used in corporate finance and to make them familiar with the statistical software Stata.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Empirical Corporate Finance	German or English	40	4	65
Self-study					165

## Prerequisites

<b>obligatory</b>	None
<b>recommended</b>	Strong command of English required. Some prior knowledge of econometrics or applied microeconometrics is recommended.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122011 / 333022011	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192211 / 333022011		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	None	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle		Workload	Duration
Winter term		225 h	1 Term
Summer term	x		

## Module coordination

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

**Module coordinator** Prof. Dr. Hendrik Hakenes

**Institute/Department** Department of Economics

## Further Information

**Literature** Literature will be announced at the beginning of the lecture.

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

# Environmental Economics

BA VWL WPF UMWELT



## Content and learning outcome

<b>Content</b>	Government policies to influence pollution and resource consumption: market failures due to externalities, environmental policy instruments, energy efficiency and energy efficiency regulation, cost/benefit analysis as a tool of environmental economics, environmental goods, exhaustible and renewable resources, climate protection and implementation of climate protection in the energy sector.
<b>Learning outcome</b>	Students know the background and development of environmental and resource economics. They understand the relationships between the economy and the environment. They know the theoretical foundations of external effects and environmental goods as well as the goals and instruments of environmental policy.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; (Part 1 - Summer term)	Environmental Economics	German or English	40	2	30
Lecture; (Part 2 - Winter term)	Environmental Economics	English	40	2	30
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	Obligatory modules of the 1st and 2nd year of study

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121012 / 333021012	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192112 / 333021012		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Final module examination at the end of the winter semester, Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	Winter and Summer term	x	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	<ul style="list-style-type: none"> <li>Perman, R., Y. Ma, J., M. Common, D. Maddison und J. McGilvray (2011), Natural Resource- and Environmental Economics; 4. Aufl., Pearson, Harlow.</li> <li>Sturm, B. und C. Vogt (2018), Umweltökonomik – eine anwendungsorientierte Einführung, Springer Gabler</li> </ul>
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	<ul style="list-style-type: none"><li>• Erdmann, G., Praktiknjo, A. und P. Zweifel (2017), Energy Economics: Theory and Applications, Springer</li><li>• Nordhaus, W (1994), Managing the Global Commons: The Economics of Climate Change, MIT Press.</li><li>• Further current literature references will be given in the lecture.</li></ul>
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*\* export into other study programs is only possible if contract between faculties exists*

# Experimental Economics

BA VWL WPF EXWIFO



## Content and learning outcome

<b>Content</b>	Economic experiments allow to collect data in a very controlled way. This course introduces students to basic methods in experimental economics and discusses important experimental studies and results. The course covers, for example, market and bargaining experiments, experiments on collective goods and on labor markets. During the course, participants will design, conduct and evaluate experiments themselves.
<b>Learning outcome</b>	Participants will learn about selected economic experiments and results. They will gain insights on how to design, conduct, and evaluate experiments.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121016 / 333021016	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182116 / 333021016	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172116 / 333021016	elective	2 <sup>nd</sup> - 6
Export* /333192116/ 333021016		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

### Teaching person

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

### Module coordinator

Prof. Dr. Matthias Kräkel

### Institute/Department

Department of Economics

## Further Information

### Literature

Literature will be announced at the beginning of the lecture

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

# Financial Statements and Business Valuation

BA VWL WPF BILANZEN



## Content and learning outcome

<b>Content</b>	In relation to company balance sheets, the structure and content of commercial balance sheets are taught as a matter of priority. After an introduction, recognition, measurement and disclosure are discussed. Balance sheet analysis concludes the course. The course content is deepened by means of integrated exercises. An introduction to the theoretical principles of business valuation is followed by an overview of valuation purposes, valuation standards and principles. Subsequently, the derivation of expected pay-outs using integrated corporate planning and the derivation of the capitalization interest rate are presented. Methods of business valuation (capital value-oriented methods, multiplier methods) are taught. The students practice the application of the methods using concrete examples. Selected valuation problems are addressed.
<b>Learning outcome</b>	Students will be familiar with the theoretical principles of practically relevant methods of company valuation and will be able to apply them. They know the structure and content of company balance sheets (primarily commercial balance sheets) as well as methods for analyzing them.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Financial Statements and Business Valuation	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the mandatory modules Principles of Business Administration: Introduction to the Theory of Firm

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122009 / 333022009	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192209 / 333022009		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# Game Theory

BA VWL WPF SPIEL



## 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 should learn to model interdependent decision situations as games and to analyze them with the help of different solution concepts of non-cooperative game theory. This should enable them to independently recognize the strategic aspects of economic, political and social interactions.

## 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	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the modules Intermediate Microeconomics A and Intermediate Microeconomics B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121001 / 333021001	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182101 / 333021001	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172101 / 333021001	elective	2 <sup>nd</sup> - 6
Export* /333192101/ 333021001		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)	Credits
<b>Prerequisites for participation</b>	7,5 LP
<b>Types of Assessment Examination language</b>	
none	
Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezsö Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced in the course.
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\* export into other study programs is only possible if contract between faculties exists



# Health Economics

BA VWL WPF HEALTH



## Content and learning outcome

**Content**  
Students will learn how to use economic arguments in questions regarding individual health and the organisation of the health care system. In the course of this, they will also learn a number of empirical facts in these areas and how to interpret them in the light of economic models. Students will be exposed to English vocabulary used in economic contexts.

**Learning outcome**  
The first half of the course will focus on the production of health over the life-cycle: How is human health shaped during childhood and adolescence? How do people react to economic incentives later in life and make provisions for the future? What is the role played by socio-economic factors and demographics? What is the role of health care services? The second half of the course turn the last question around and consider the organisation of the health care system. Should health insurance be provided by private firms or public entities? What does the optimal insurance contract look like? Who should run hospitals? How should physicians be incentivised? Throughout the course, we will start from basic empirical facts and then make sense of them using economic theory.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; with integrated tutorial	Health Economics	English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	
<b>recommended</b>	Basic knowledge of microeconomics and data analysis/econometrics. English proficiency.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121021 / 333021021	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192121 / 333021021		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	None	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), English	

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Matthias Kräkel
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Recommended Literature:
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	- Peter Zweifel, Friedrich Breyer and Mathias Kifmann (2009): Health Economics (2nd edition). Berlin: Springer
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*\* export into other study programs is only possible if contract between faculties exists*

# Incentives and Economic Institutions

BA VWL WPF ANREIZE



## Content and learning outcome

**Content**  
This course explores topics in the theory of economic transactions (prices, allocations) with strategic agents. Negotiations, search, and auctions describe three basic classes of models used by economists to study a wide variety of small and decentralized markets. Mechanism design and contract theory are used to analyze bilateral relationships. The course emphasizes the importance of such models for the efficiency of strategic interactions in the presence of informational frictions and possible regulatory intervention.

**Learning outcome**  
This course teaches the in-depth analysis of economic models using methods from information economics, dynamic optimization, and game theory. Students will learn to reason abstractly about the operation of small and decentralized markets, including bilateral relationships. They will learn to use basic economic models for this purpose and to apply them to specific institutional settings.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Incentives and Economic Institutions	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the mandatory module Intermediate Microeconomics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121025 / 333021025	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192125 / 333021025		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle		Workload	Duration
Winter term		225 h	1 Term
Summer term	x		

## Module coordination

<b>Teaching person</b>	see <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# Industrial Organization

BA VWL WPF INDÖKON



## 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 the classical static oligopoly models. These models are then extended to explain the properties of strategic competition with multiple decision variables. In the last section of the module, dynamic oligopoly models are presented.  
ENTWURFSTEXT

**Learning outcome**  
Participants will learn how companies with market power make optimal strategic decisions. The aim is to understand the interaction between basic market parameters, such as market structure, barriers to market entry, technological and legal framework conditions, and corporate decisions. With the help of the learned models, students should be able to critically analyze practical examples. Furthermore, students should be able to explain the advantages and disadvantages of different government interventions in markets with imperfect competition.  
ENTWURFSTEXT

## 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	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the module Intermediate Microeconomics B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121007 / 333021007	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192107 / 333021007		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

Course Cycle		Workload	Duration
Winter term	x	225 h	1 Term
Summer term			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# International Accounting according to IFRS

BA VWL WPF IFRS



## Content and learning outcome

**Content**  
The module covers the various aspects of accounting according to IFRS. In the first part, the basic knowledge (theory of accounting, internationalization of accounting in Germany, institutional framework of IFRS, recognition and enforcement of IFRS, framework principles, reporting requirements, sets of accounts and notes, standards and interpretations) is taught. The second part focuses on accounting for items that are relevant in the separate financial statements. Four topics are covered (main items in the balance sheet, revenue and profit recognition, additional items in the balance sheet, special topics). The third part deals with additional information to be published (such as key figures) and additional reports to be published (such as segment reporting). The last part covers the basics of group accounting (e.g. consolidation, business combinations) according to IFRS.

**Learning outcome**  
Students learn the basics of accounting according to international accounting standards (IFRS). Knowledge of double-entry bookkeeping is also taught.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the module Financial Markets and Institutions.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122207 / 333022207	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182207 / 333022207	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172207 / 333022207	elective	2 <sup>nd</sup> - 6
Export / 333192207 / 333022207		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# International Economics

BA VWL WPF AUSSENW



## Content and learning outcome

<b>Content</b>	The module deals with the basic issues of economic policy in open economies. The first part deals with questions of international trade and international trade policy, the second part with questions of international macroeconomics.
<b>Learning outcome</b>	Students develop an understanding of world trade and international financial markets from both a theoretical and economic policy perspective.

## 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	40
Self-study					

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module based on the contents of the obligatory modules Intermediate Macroeconomics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121004 / 333021004	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182104 / 333021004	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172104 / 333021004	elective	2 <sup>nd</sup> - 6
Export* /333192104/ 333021004		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	see <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	The lecture is based on the following textbooks: <ul style="list-style-type: none"> <li>Paul Krugman, Maurice Obstfeld and Marc Melitz: International Economics.</li> <li>Philipp Harms: Internationale Makroökonomik.</li> </ul>
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\* export into other study programs is only possible if contract between faculties exists

# International Financial Contracts

BA VWL WPF IBL



## Content and learning outcome

**Content**  
The module begins with an overview of the most important financial contracts of the international financial market. Financial contracts of the money, capital, swap and foreign exchange markets are dealt with. The focus is on interbank trading. The focus is on forward and derivative financial contracts including structured products. In a second step, the cross-references of the various financial products are examined and their valuation as well as risk limitation by means of suitable trading strategies are derived.

**Learning outcome**  
The participants learn the structure and subdivision of the most important contracts of the international financial market. From knowledge of the characteristics of the individual components, they assess the applicability and significance in practice-relevant situations. They apply basic techniques of risk identification and measurement to assess and limit financial risks arising from changes in exchange rates, interest rates and share prices.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the module Financial Markets and Institutions.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122001 / 333022001	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182201 / 333022001	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172201 / 333022001	elective	2 <sup>nd</sup> - 6
Export* / 333192201 / 333022001		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	x	225 h	1 Term
Summer term			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Hendrik Hakenes
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	A comprehensive introductory literature source on the subject is: Hull, J.C. (2006), Options, Futures, and other Derivatives; Prentice-Hall, New York
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*\* export into other study programs is only possible if contract between faculties exists*

# Introduction to Behavioral Economics

BA VWL WPFVERHALTEN



## Content and learning outcome

**Content**  
Diverse psychological and experimental evidence documents behaviors that are inconsistent with the predictions of the standard economic model. Based on these empirical observations, the lecture presents modeling approaches that formalize the underlying psychological aspects (e.g., time inconsistency, social preferences, reference-dependent preferences, overconfidence). Subsequently, the implications of the previously presented decision-theoretic models are elaborated in various problems of economic relevance.

**Learning outcome**  
In the recent past, the so-called behavioral economics (Behavioral Economics, Psychology and Economics) has developed into a steadily growing field of research, which enriches the standard economic model with psychologically based aspects of individual decision making. The lecture aims to provide bachelor students with an introduction to behavioral economics. In the course of the lecture, the participants will get to know models of decision theory extended by psychological factors and apply them to economic problems.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Introduction to Behavioral Economics	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The lecture is aimed at Bachelor students with basic microeconomic knowledge at the level of the lecture Intermediate Microeconomics B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121020 / 333021020	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182120 / 333021020	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172120 / 333021020	elective	2 <sup>nd</sup> - 6
Export* /333192120/ 333021020		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Matthias Kräkel
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# Introduction to Economics of Information

BA VWL WPF INFÖKON



## Content and learning outcome

<b>Content</b>	The module teaches the basics of how markets work in the presence of asymmetric information. It explains where and which problems can arise in these markets. Finally, mechanisms are presented to overcome information asymmetries and their negative effects, such as signaling (especially jobmarket signalling) and screening.
<b>Learning outcome</b>	Students will be familiar with the functioning of markets with asymmetric information. They will be able to identify and describe problems in such markets and develop solutions to market failures.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; with integrated tutorial	Introduction to Economics of Information	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the obligatory module Intermediate Microeconomics B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121024 / 333021024	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192112 / 333021024		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Exam language corresponds to the language of instruction	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	Winter and Summer term	225 h	1 Term
Summer term	x		

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezsö Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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\* export into other study programs is only possible if contract between faculties exists

# Labor and Population Economics

BA VWL WPF AMARKT BEVÖKON



## Content and learning outcome

**Content** This module presents facts about the dynamics of labor markets in major industrialized countries and attempts to explain them using state-of-the-art theories. All theories are systematically developed and tested against empirical evidence. The structure and dynamic development of unemployment, employment, vacancies, wages, and education levels are explored. Finally, the effects of specific labor market and population policy measures on these variables are examined.

**Learning outcome** Students will learn to recognize correlations between developments in the labor market and general population trends and to understand how these can be explained in economic terms. They will learn to evaluate the effectiveness of economic policy measures in this area.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Labor and Population Economics	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the modules Intermediate Macroeconomics A and B and Introduction to Statistics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121011 / 333021011	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182111 / 333021011	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172111 / 333021011	elective	2 <sup>nd</sup> - 6
Export* / 333192111 / 333021011		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

		Workload	Duration
Winter term		225 h	1 Term
Summer term	x		

## Module coordination

<b>Teaching person</b>	see <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Relevant textbooks are: <ul style="list-style-type: none"> <li>Ehrenberg, R. G., R. S. Smith 2014. Modern Labor Economics. 12. Auflage, Addison-Wesley.</li> <li>Goerke, L., M. Holler 1997. Arbeitsmarktmodelle. Berlin: Springer Verlag.</li> </ul>
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	<ul style="list-style-type: none"><li>• Blau, F., M. Ferber, A. Winkler 2016. The Economics of Women, Men, and Work, 7. Auflage, Prentice-Hall.</li></ul>
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*\* export into other study programs is only possible if contract between faculties exists*

# Monetary Theory and Policy

BA VWL WPFELD



## Content and learning outcome

<b>Content</b>	The module deals with the basic issues of monetary theory and monetary policy. The institutions of the European Monetary Union, basic concepts of monetary theory, the microeconomic foundations of money demand and money supply, strategies of monetary policy and their institutional design, as well as equilibrium-theoretical considerations on the effects of monetary policy are dealt with.
<b>Learning outcome</b>	The participants learn the basic concepts and models of monetary theory and policy and can apply them to assess and forecast monetary policy in Europe. They understand and interpret common empirical models of money demand, monetary policy rules and inflation forecasts.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; with integrated tutorial	Monetary Theory and Policy	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module based on the contents of the mandatory modules Intermediate Macroeconomics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121005 / 333021005	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182105 / 333021005	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172105 / 333021005	elective	2 <sup>nd</sup> - 6
Export* /333192105/ 333021005		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to the language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Christian Bayer
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	A comprehensive textbook is: Oliver Holtemüller: Geldtheorie und Geldpolitik, Tübingen, Mohr Siebeck, 2008.
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\* export into other study programs is only possible if contract between faculties exists



# Multivariate Statistics

BA VWL WPFMULTSTAT



## Content and learning outcome

<b>Content</b>	One focus of the module is on methodological foundations. It includes an introduction to matrix algebra as used in multivariate statistics and covers in detail theory and applications of the multivariate normal distribution. Based on this, basic multivariate methods are discussed. The methods are illustrated by examples.
<b>Learning outcome</b>	Students learn basic statistical methods for the analysis of multivariate data. They will be able to apply these methods to analyze real economic data sets. The theoretical foundations conveyed enable the participants to independently read and understand advanced technical literature in the field of multivariate statistics.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture; with integrated tutorial	Multivariate Statistics	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the obligatory modules Introduction to Statistics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333123002 / 333023002	obligatory	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192302 / 333023002		

## Requirements for the awarding of credit points (ECTS)

		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

Course Cycle			Workload	Duration
Winter term	x	Winter and Summer term	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature sources that introduce the topic are: - Härdle, W. und Simar, L. (2003), Applied Multivariate Statistical Analysis; Springer Verlag. - Mardia, K.V., Kent, J.T. und Bibby, J.M. (1979); Multivariate Analysis; Academic Press, London
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\* export into other study programs is only possible if contract between faculties exists



# Nonparametric Statistics

BA VWL WPF NPARASTAT



## Content and learning outcome

**Content**  
Nonparametric methods differ from parametric statistics in the absence of restrictive model assumptions. Classic nonparametric methods include, for example, rank and order statistics. One focus of the module is on nonparametric methods for estimating regression and density functions. Methods discussed include kernel estimators, locally polynomial regression, and spline methods. The methods are illustrated by application examples and practiced.

**Learning outcome**  
The students gain a basic understanding of the structure and procedure of non-parametric methods. They apply these methods independently to the analysis of real economic data sets. The theoretical foundations conveyed enable the participants to independently deal with the technical literature in the field of nonparametric statistics, also beyond the course of study.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the obligatory modules Introduction to Statistics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333123006 / 333023006	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192306 / 333023006		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), German	

## Course Cycle

Course Cycle		Workload	Duration
Winter term	Winter and Summer term	225 h	1 Term
Summer term			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information

**Literature**  
Literature introducing the topic:  
- Simonoff, H.S. (1996); Smoothing Methods in Statistics; Springer Verlag

	- Büning, H. und Trenkler, G. (1994); Nichtparametrische statistische Methoden; de Gruyter
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*\* export into other study programs is only possible if contract between faculties exists*

# Personnel Economics

BA VWL WPF PERSONAL



## Content and learning outcome

**Content**  
In a first step, the module deals with the decision makers, the goals, the restrictions, and the instruments of the personnel policy of firms. In this context, the basics of contract theory and information economics are applied in order to discuss the scope of an employer's personnel policy. The next step focuses on the compensation policy of an employer, which is a central component of his personnel policy instruments. The module also discusses well-known labor economic approaches such as the human capital theory and the analysis of works councils.

**Learning outcome**  
The participants should be able to understand the advantages and disadvantages of existing labor market institutions that form the framework for company personnel policy. On this basis, students will learn the basics of operational personnel policy. The participants should not only be able to understand theoretical models. They should also be able to interpret empirical field and laboratory findings in economic terms.

## Teaching and learning methods

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					165

## Prerequisites

**obligatory** none

**recommended** The module builds on the contents of the mandatory modules Principles of Business Administration: Introduction to the Theory of Firm and Principles of Economics

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333122004 / 333022004	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182204 / 333022004	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) /333172204 / 333022004	elective	2 <sup>nd</sup> - 6
Export* /333192204/ 333022004		

## Requirements for the awarding of credit points (ECTS)

Prerequisites for participation	Types of Assessment Examination language	Credits
	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	7,5 LP

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

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

**Module coordinator** Prof. Dr. Matthias Kräkel

**Institute/Department** Department of Economics

## Further Information

**Literature**

- Backes-Gellner, U./Lazear, E.P./Wolff, B. (2001): Personalökonomik; Schäffer-Poeschel, Stuttgart;
- Sadowski, D. (2002): Personalökonomie und Arbeitspolitik; Schäffer-Poeschel, Stuttgart



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# Political Economy

BA WPF POLECON



## Content and learning outcome

**Content** Political economy examines the methods by which societies make collective decisions, whether in democracies, oligarchies, or dictatorships. In this course, we will explore theoretical models based on non-cooperative game theory to gain a deeper understanding of electoral politics. We will analyze how electoral competition influences the policy choices made by politicians. We will delve into the role of electoral accountability in shaping politicians' conduct, and we'll examine how lobbying can undermine this accountability. We will also discuss the determinants of political stability and the strength of institutions.

**Learning outcome** After successfully completing the module, students can define and analyze mathematical models from political economy and game theory. 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.

## Teaching and learning methods

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

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	Basic notions of game theory

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / 333121029 / 333021029	elective	5 <sup>th</sup> or 6 <sup>th</sup>

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam (graded, 100%), English	

## Course Cycle

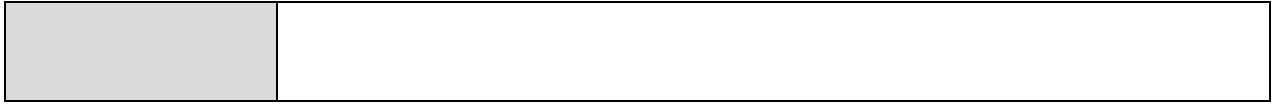
Course Cycle		Workload	Duration
Winter term	x	225 h	1 Term
Summer term			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Dezső Szalay
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# Public Finance and Social Policy

BA VWL WPF FISOPOL



## Content and learning outcome

<b>Content</b>	This module first introduces the government budget's structure. Subsequently, the main normative and positive aspects of government activity are analyzed and critically examined on the basis of "perennial issues" and current examples, for instance: Taxation today or in the future (debt financing), costs and benefits of bureaucracy, limits of regulation, or taxation of income versus consumption. As the largest item on the expenditure side in the government's budget, social policy measures receive special attention, especially with regard to their insurance performance from the households' point of view. Possible examples include various types of child and family support, reforms of the pension and health insurance systems, or the pros and cons of means testing.
<b>Learning outcome</b>	Participants receive an introduction to reading official statistics. They develop qualitative assessments of the effects of potential reform projects based on aggregate data as well as primary and secondary literature. At the end of the module, they will be able to independently answer relevant questions using qualitative economic analysis.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333121027 / 333021027	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182127 / 333021027	elective	2 <sup>nd</sup> - 6 <sup>th</sup>
Wirtschaftswissenschaften (Begleitfach) / 333172127 / 333021027	elective	2 <sup>nd</sup> - 6
Export* / 333192127 / 333021027		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or paper (graded, 100%), Examination language corresponds to the language of instruction	

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	see <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Matthias Kräkel
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# Stochastic Models

BA VWL WPF STOCHMO



## Content and learning outcome

<b>Content</b>	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.
<b>Learning outcome</b>	The students become familiar with basic properties and possible applications of stochastic models. The theoretical foundations conveyed enable the participants to independently read and understand advanced technical literature on stochastic models.

## 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					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the mandatory modules Introduction to Statistics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333123005 / 333023005	elective	5 <sup>th</sup> or 6 <sup>th</sup>

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle			Workload	Duration
Winter term		Winter and Summer term	225 h	1 Term
Summer term	x			

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature introducing the topic: - Taylor, H.M. & Karlin, S. (1998), An Introduction to Stochastic Modeling, Academic Press, San Diego
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\* export into other study programs is only possible if contract between faculties exists

# Time Series Analysis

BA VWL WPF ZEIT



## Content and learning outcome

**Content**  
First, the basics of modeling time series based on ARIMA processes are discussed. For the selection of suitable models, alternative methods are presented and compared with each other. The specification and estimation of trended time series is done with the tools of non-stationary time series analysis.  
ENTWURFSTEXT

**Learning outcome**  
The participants should learn the basic methods for describing and forecasting time series and be able to apply them to economic data series. In particular, they should gain a deeper understanding of the techniques of time series analysis that are standard in economic theory and practice today and that are also implemented in common statistical software packages.  
ENTWURFSTEXT

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Time Series Analysis	German or English	40	4	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	The module builds on the contents of the obligatory modules Mathematical Methods for Economics A and B.

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333123004 / 333023004	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Export* / 333192304 / 333023004		

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 LP
<b>Types of Assessment Examination language</b>	Written exam or term paper (graded, 100%), Examination language corresponds to language of instruction	

## Course Cycle

Course Cycle	Workload	Duration
Winter term	225 h	1 Term
Summer term		

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	Literature will be announced at the beginning of the lecture.
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*\* export into other study programs is only possible if contract between faculties exists*

# Using Data to Address Societal Challenges

M DBgH BF



## Content and learning outcome

<b>Content</b>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<b>Learning outcome</b>	<p>Students are able to recognise and describe empirical patterns of research work on current economic and social challenges.</p> <p>They are able to distinguish between different types of data and research methods in applied economic research.</p> <p>They will be able to explain the advantages and limitations of different research methods.</p> <p>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.</p> <p>You will be able to assess the empirical evidence of scientific research work.</p> <p>They are able to summarise, compare and discuss the results of different research studies.</p>

## 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

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre / 333121030 / 333021030	elective	5 <sup>th</sup> or 6 <sup>th</sup>
Wirtschaftswissenschaften (Zwei-Fach) / 333182130 / 333021030	elective	from 3 <sup>rd</sup>
Wirtschaftswissenschaften (Begleitfach) /333172130 / 333021030	elective	from 3

<b>Requirements for the awarding of credit points (ECTS)</b>					<b>Credits</b>
<b>Prerequisites for participation</b>	none				7,5 LP
<b>Types of Assessment Examination language</b>	written exam/graded, German or English				
<b>Course Cycle</b>			<b>Workload</b>	<b>Duration</b>	
Winter term	x	Winter and Summer term	225 h	1 Term	
Summer term					
<b>Module coordination</b>					
<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>				
<b>Module coordinator</b>	Prof. Dr. Matthias Kräkel				
<b>Institute/Department</b>	Department of Economics				
<b>Further Information</b>					
<b>Literature</b>	Literature will be announced in the lecture.				

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

# Internship

BA VWL FWPFB PRAKTIKUM



## Content and learning outcome

**Content** The learning content is agreed with the employer at the beginning of the internship with a view to the learning objectives.

**Learning outcome** Students learn to apply economic knowledge and methods to practical issues in private or public companies, organisations, institutions or authorities. They learn to present economic facts in a comprehensible and target-group-oriented manner (also to non-specialists). They supplement their theoretical knowledge with practical methods. They acquire key competences relevant to the professional field in which the internship takes place.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
; Full-time professional activity, at least 6 weeks	Internship				180

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 333130001 / 333030001	elective	2 <sup>nd</sup> - 4 <sup>th</sup>

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	<ul style="list-style-type: none"><li>• Internship certificate (internship certificate from the employer)</li><li>• Internship report, 2 pages (ungraded)</li></ul>	6,0 LP
<b>Types of Assessment Examination language</b>	No examination,	

Course Cycle			Workload	Duration
Winter term	Winter and Summer term	x	225 h	1 Term
Summer term				

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Lorenz Götte
<b>Institute/Department</b>	Department of Economics

## Further Information

<b>Literature</b>	<ul style="list-style-type: none"><li>• The 6 weeks of full-time work as part of the internship must take place during the lecture-free period.</li><li>• Internship certificate and report are submitted to the examination office.</li><li>• <a href="https://www.vwlpamt.uni-bonn.de/pruefungsamt/bachelor">FAQsDeadlines/forms for study achievements at https://www.vwlpamt.uni-bonn.de/pruefungsamt/bachelor</a></li></ul>
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\* export into other study programs is only possible if contract between faculties exists



# Bachelor Thesis

BA VWL PF BAARBEIT / BA VWL PF KOLLOQ



## Content and learning outcome

**Content**  
In a colloquium to prepare the Bachelor's thesis, the subject of the investigation or the presentation of the problem, the selection of the scientific methods to be used as well as the possible structure of the topic are presented in an exposé, presented to the examiner and discussed with the examiner.  
The subject of the Bachelor's thesis is the application of scientific methods and models for the analysis and processing of economic problems from a subject area of the degree programme within a specified period of time. The preparation of the Bachelor's thesis includes an independent critical examination of the relevant literature, a classification of the relevance of the problem, the development of solution approaches as well as the evaluation and presentation of these, taking into account the formal requirements of a scientific paper.

**Learning outcome**  
Students learn to independently work on a problem from the subject area of the degree programme within a given period of time using scientific methods, to find a solution and to present it in an appropriate and comprehensible form.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Kolloquium	Kolloquium	German			90

## Prerequisites

**obligatory** Successful completion of all compulsory modules. ENTWURFTEXT

**recommended** It is recommended to write the Bachelor thesis in the 6th semester.  
ENTWURFTEXT

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 8000 / 333008000	obligatory	6 <sup>th</sup>

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	Exposé, presentation (ungraded)	7,5 LP
<b>Types of Assessment Examination language</b>	written thesis (graded, 100%), German or English	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	Winter and Summer term	x	225 h	1 Term
Summer term				

## Module coordination

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

**Module coordinator**

**Institute/Department** Department of Economics

## Further Information

**Literature** - The thesis comprises a maximum of 20 A4 pages.

	<ul style="list-style-type: none"><li>- The processing period is two months.</li><li>- The registration procedure and the external form are regulated by the examination office. See the website of the Examinations Office (<a href="http://www.vwlpamt.uni-bonn.de">www.vwlpamt.uni-bonn.de</a>).</li><li>- In agreement between the candidate and the examiner, the paper can also be written in English.</li><li>- The examiner determines the organisation and execution of the colloquium.</li><li>- For further provisions, see §20 - §22 of the Bachelorprüfungsordnung of 12.09.2016 as amended in 2019.</li></ul>
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*\* export into other study programs is only possible if contract between faculties exists*

# Bachelor Thesis

BA VWL PF BAARBEIT / BA VWL PF KOLLOQ



## Content and learning outcome

**Content**  
In a colloquium to prepare the Bachelor's thesis, the subject of the investigation or the presentation of the problem, the selection of the scientific methods to be used as well as the possible structure of the topic are presented in an exposé, presented to the examiner and discussed with the examiner.  
The subject of the Bachelor's thesis is the application of scientific methods and models for the analysis and processing of economic problems from a subject area of the degree programme within a specified period of time. The preparation of the Bachelor's thesis includes an independent critical examination of the relevant literature, a classification of the relevance of the problem, the development of solution approaches as well as the evaluation and presentation of these, taking into account the formal requirements of a scientific paper.

**Learning outcome**  
Students learn to independently work on a problem from the subject area of the degree programme within a given period of time using scientific methods, to find a solution and to present it in an appropriate and comprehensible form.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Kolloquium	Kolloquium	German			90

## Prerequisites

**obligatory** Successful completion of all compulsory modules. ENTWURFTEXT

**recommended** It is recommended to write the Bachelor thesis in the 6th semester.  
ENTWURFTEXT

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Volkswirtschaftslehre, B.Sc. / 8000 / 333008000	obligatory	6 <sup>th</sup>

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	Exposé, presentation (ungraded)	7,5 LP
<b>Types of Assessment Examination language</b>	written thesis (graded, 100%), German or English	

## Course Cycle

Course Cycle			Workload	Duration
Winter term	Winter and Summer term	x	225 h	1 Term
Summer term				

## Module coordination

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

**Module coordinator**

**Institute/Department** Department of Economics

## Further Information

**Literature** - The thesis comprises a maximum of 20 A4 pages.

	<ul style="list-style-type: none"><li>- The processing period is two months.</li><li>- The registration procedure and the external form are regulated by the examination office. See the website of the Examinations Office (<a href="http://www.vwlpamt.uni-bonn.de">www.vwlpamt.uni-bonn.de</a>).</li><li>- In agreement between the candidate and the examiner, the paper can also be written in English.</li><li>- The examiner determines the organisation and execution of the colloquium.</li><li>- For further provisions, see §20 - §22 of the Bachelorprüfungsordnung of 12.09.2016 as amended in 2019.</li></ul>
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