

Module Manual

B.Sc. Economics

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This module manual is to provide you with detailed information on the educational objectives, contents and references that go along with the lectures and seminars offered by the Institute for Economics for the B.Sc. program in Economics.

Even though the module manual is actualized frequently, there might be deviations from the information given in the valid version of the Fachprüfungsordnung (FPO). If so, the german version of the FPO is always binding.

Please find the valid FPO (2014) [here](#).

If you study economics as a minor, you can use this module manual for information on the educational objectives, contents and references of each module. However, binding information on the attribution to your curriculum and number of ECTS for your studies can only be found in the FPO for your degree program.

For your study planning, please find a table of the planned lectures and seminars of the Institute for Economics here: <http://www.wiso.uni-kiel.de/en/studying/studying-at-faculty-of-buisness-evonomics-and-social-sciences/de/studium/download/langfristige-veranstaltungsplanung-vwl.pdf>

A. Economic Lectures

I. Compulsory Section in Economics

Module Code:		VWL-EVWL	
Module Name:		Introductory Economics	
Course:		Lecture: Introductory Economics Tutorial: Introductory Economics	
Module responsible:		Prof. Dr. Till Requate	
Teacher:		Prof. Dr. Katrin Rehdanz, Prof. Dr. Maik Wolters	
Semester:		1	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Compulsory	
Assessment:		Written Examination	
Credit points / Grade:		10 LP	German scale, ECTS-System
Work load	Attendance:	L: 60 hrs T: 30 hrs	
	Self-study:	L: 140 hrs T: 70 hrs	
	total:	L: 200 hrs T: 100 hrs	Total: 300 hrs
Recommended precognition		None	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 4 SWS/ 600 Tutorial/ 1 SWS/ 100	
Learning targets/competences:		The students will learn to know basic principles and concepts of microeconomics, macroeconomics, and public finance. They will be familiarized with economics thinking and will learn to apply economic reasoning.	
Content:		<ul style="list-style-type: none"> • Introduction to economic thinking • Principles of supply and demand • Gains of international trade • Markets and welfare • Economics of the public sector • Firm behavior and organization • Introduction to labor economics • Consumer choice • Measurement of national income (GDP, GNP) • Measurement of cost of living • Production and growth • National savings and investment • Measurement and macroeconomic theory of unemployment • Money and inflation • Open economic macroeconomics • Aggregate demand, aggregate supply and real business cycles • Monetary and fiscal policy • Inflation and unemployment (Theory of the Philips-curve) 	
Knowledge transfer:		Interactive lectures with tutorials, self-studying, completion of problem sets	
Literature:		<ul style="list-style-type: none"> • Mankiw, G. and M.P. Taylor: Grundzüge der Volkswirtschaftslehre 6th edition, Schäffer/Poeschel, Stuttgart 2016.; • Herrmann, M. Arbeitsbuch zu Mankiw Taylor, 5th edition, Schäffer/Poeschel, Stuttgart 2016. 	

Module Code:	VWL-MAKRO	
Module Name:	Intermediate Macroeconomics	
Course:	Lecture: Intermediate Macroeconomics Tutorial: Intermediate Macroeconomics	
Module responsible:	Prof. Dr. Hans-Werner Wohltmann	
Teacher:	Prof. Dr. Hans- Werner Wohltmann	
Semester:	3	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Compulsory	
Assessment:	Written Examination	
Credit points / Grade:	10 LP	German scale, ECTS-System
Work load	Attendance:	L: 60 hrs T: 30 hrs
	Self-study:	L: 140 hrs T: 70 hrs
	total:	L: 200 hrs T: 100 hrs Total: 300 hrs
Recommended precognition	Introductory Economics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture/ 4 SWS/ 400 Tutorial/ 2 SWS/ 100	
Learning targets/competences:	The lecture deals with the most important macroeconomic methods (partial and total analysis of aggregated markets in closed and open economies; comparative-static analysis of domestic and foreign disturbances and economic-political measures). The course is supposed to enable students to work on macroeconomic issues on the basis of theoretical models.	
Content:	<p>1. Introduction Topic of macroeconomics Basic concepts and methods</p> <p>2. The goods market Basic model Consideration of the government's economic activities The goods market with interest rate dependent investment demand</p> <p>3. The money market Concept of money Money supply Money demand Determination of the equilibrium Effects of parameter changes The LM curve</p> <p>4. The goods-market-money-market-model with constant price level The fix-price model of the closed economy (IS-LM system) Analysis of isolated policy measures The fix-price model of the small open economy</p> <p>5. The labor market Labor supply Labor demand Equilibrium and full employment</p> <p>6. Macroeconomic total analysis of the closed and small open economy Aggregated goods supply Aggregated goods demand Determination of the macroeconomic equilibrium in the closed economy Analysis of isolated policy measures Total model of the small open economy</p> <p>7. Baseline model of New Keynesian macroeconomics Baseline model of the closed economy Baseline model of the open economy Analysis of disturbances</p>	
Knowledge transfer:	Interactive lecture and tutorial, reader, literature study, solving exercises	

Literature:	<ul style="list-style-type: none">• Wohltmann, H.-W. (2007), Grundzüge der makroökonomischen Theorie. Totalanalyse geschlossener und offener Volkswirtschaften. 5. Auflage, München.
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Module Code:	VWL-MIKRO	
Module Name:	Intermediate Microeconomics	
Course:	Lecture: Intermediate Microeconomics Tutorial: Intermediate Microeconomics	
Module responsible:	Prof. Dr. Till Requate	
Teacher:	Prof. Dr. Till Requate, Prof. Horst Raff, PhD	
Semester:	2	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Compulsory	
Assessment:	Written Examination	
Credit points / Grade:	10 LP	German scale, ECTS-System
Work load	Attendance:	L: 60 hrs T: 30 hrs
	Self-study:	L: 140 hrs T: 70 hrs
	total:	L: 200 hrs T: 100 hrs Total: 300 hrs
Recommended precognition	Introductory Economics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture/ 4 SWS/ 600 Tutorial/ 1 SWS/ 100	
Learning targets/competences:	The students will be familiarized with basic principles and concepts microeconomic theory.	
Content:	<ul style="list-style-type: none"> • Reconsideration of supply and demand • Partial equilibrium • Theory of consumer choice • Decisions under uncertainty • Economics of the public sector • Theory of the firm: technology, cost minimization, cost function profit maximization • Competitive markets • Monopoly • Principles of game theory • Oligopoly • Markets , efficiency and welfare • Inflation and unemployment (Theory of the Philips-curve) 	
Knowledge transfer:	Interactive lectures with tutorials, self-studying, completion of problem sets	
Literature:	<ul style="list-style-type: none"> • Pindyck, R. and D. Rubinfeld: Mikroökonomie (Engl.: "Microeconomics"), 7th/8th edition, Pearson Education; 2016 • Hal Varian: Grundzüge der Mikroökonomik ("Principles of Microeconomics"), de Gruyter Studium, 9. Auflage, 2016 	

Module Code:	VWL-MiFi-EcEth		
Module Name:	Economics and Ethics		
Course:	Lecture: Economics and Ethics Tutorial: Economics and Ethics		
Module responsible:	Prof. James Konow, PhD		
Teacher:	Prof. Dr. Menusch Khadjavi		
Semester:	3-6		
Frequency:	Annual, summer term		
Duration:	1 semester		
Language:	German		
Attribution to curriculum:	-		
Status:	Compulsory		
Assessment:	Written Examination		
Credit points / Grade:	5 LP	German scale, ECTS-System	
Work load	Attendance:	L: 30 hrs T: 15 hrs	
	Self-study:	L: 60 hrs T: 45 hrs	
	total:	L: 90 hrs T: 60 hrs	Total: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics		
Applicable in programmes:	-		
Teaching methods/SWS/participants:	Lecture/ 2 SWS/ 200 Tutorial/ 1 SWS/ 200		
Learning targets/competences:	The student will get to know the most important concepts and problems of morality in the economic domain and learn to apply them to real world problems.		
Content:	The moral values of economic agents, including altruism, fairness, efficiency, reciprocity and rights, have significant effects on domestic and global economies. Ethics also supplies the normative foundation for economic policies with respect to income and wealth redistribution, foreign aid, and the choice of broad social goals, such as economic growth or the promotion of happiness. This course integrates empirical findings about moral preferences from behavioral economics and experimental economics with normative theories from economics and moral philosophy. We explore possibilities for comparing and reconciling descriptive and prescriptive approaches to ethics in the economic domain.		
Knowledge transfer:	Interactive lecture and tutorial, exercises, readings		
Literature:	<ul style="list-style-type: none"> Jan Peil, Irene van Staveren „Handbook of Economics and Ethics“ 		

II. Optional Section in Economics

(a) Modules „Microeconomics and Public Economics“

Module Code:		VWL-MiFi-FiSo	
Module Name:		Public Finance and Social Policy	
Course:		Lecture: Public Finance and Social Policy Tutorial: Public Finance and Social Policy	
Module responsible:		Prof. Dr. Ulrich Schmidt	
Teacher:		Prof. Dr. Ulrich Schmidt	
Semester:		4-6	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 30 hrs	
	Self-study:	L: 40 hrs T: 50 hrs	
	total:	L: 70 hrs T: 80 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics, Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 100 Tutorial/ 2 SWS/ 100	
Learning targets/competences:		Students will learn the key concepts and issues of public economies and be able to apply them independently on current issues.	
Content:		<ol style="list-style-type: none"> 1. Introduction 2. General equilibrium and welfare 3. Market failure 4. Tax theory 5. Income distribution and redistribution 6. Social insurance 	
Knowledge transfer:		Interactive lecture and tutorial, reader, study of literature, solving exercises	
Literature:		<ul style="list-style-type: none"> • F. Breyer, W. Buchholz, Ökonomie des Sozialstaates, Springer, Berlin, 2007 • B.U. Wigger, Grundzüge der Finanzwissenschaft, 2. Aufl., Springer, Heidelberg 2006. 	

Module Code:		VWL-MiFi-HaVe	
Module Name:		Trade Policy and Distribution	
Course:		Lecture: Trade Policy and Distribution (Tutorial: Trade Policy and Distribution)	
Module responsible:		Prof. Dr. Manfred Wiebelt	
Teacher:		Prof. Dr. Manfred Wiebelt	
Semester:		4-6	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs (T:15 hrs)	
	Self-study:	L: 70 hrs (T: 35 hrs)	
	total:	L: 100 hrs (T: 50 hrs)	Total: 150 hrs
Recommended precognition		International Trade	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 40 (Tutorial/ 1 SWS/ 40)	
Learning targets/competences:		<ul style="list-style-type: none"> • This module provides a comprehensive introduction to the applied economic analysis of trade policies, with a focus on the distributional consequences in (poor) developing countries. Students are introduced to trade policy concepts, welfare measurement, accounting frameworks, and both partial and general equilibrium approaches. • The module integrates theory, real world data, hands-on computer work and real-world applications. It aims to show how the current tools of trade and trade policy analysis are used to explain trade flows and the effects of trade policy interventions in developing countries. • At the end of the semester students will be able to read and understand current and classic research papers in the field of development economics and trade policy and will have received guidance to enable them to complete their first empirical project. 	
Content:		<ol style="list-style-type: none"> 1. Developing a system of distribution indicators 2. A typology of trade-policy induced distribution effects 3. Operationalizing and measuring distribution indicators (with introduction to SAMs) 4. Partial analysis of household and firm behavior (with introduction to GAMS) <ol style="list-style-type: none"> 4.1 Utility maximization and consumption demand 4.2 Profit maximization and factor demand 5. From simple closed-economy Walras model to applied open-economy CGE model <ol style="list-style-type: none"> 5.1 Walras model 5.2 Introducing intermediate goods 5.3 Factor markets and macroeconomic equilibrium 5.4 Introducing government activities (including trade policy) 5.5 Open-economy trade-focused CGE model Distributive impacts of trade policy interventions	
Knowledge transfer:		Interactive lecture and tutorial; exercises; home work; mini projects	
Literature:		<ul style="list-style-type: none"> • Krugman, P., M. Obstfeld (2009). International Economics: Theory and Policy. • Breisinger et al. (2009). Social Accounting Matrices and Multiplier Analysis: An Introduction with Exercises. International Food Policy Research Institute, Washington, D.C. • Robinson, S. et al. (1999). From stylized to applied models: Building 	

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| | <p>multisector CGE models for policy analysis. <i>The North American Journal of Economics and Finance</i> 10(1): 5–38.</p> <ul style="list-style-type: none">• Trade policy research papers. |
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Module Code:	VWL-MiFi-PED	
Module Name:	Poverty, Equity and Development	
Course:	Lecture: Poverty, Equity and Development (Tutorial: Poverty, Equity and Development)	
Module responsible:	Prof. Dr. Rainer Thiele	
Teacher:	Prof. Dr. Rainer Thiele	
Semester:	4-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	English	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Written Examination	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs (T: 15 hrs)
	Self-study:	L: 60 hrs (T: 45 hrs)
	total:	L: 90 hrs (T: 60 hrs) Total: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture/ 2 SWS/ 50 (Tutorial/ 1 SWS/ 50)	
Learning targets/competences:	<ul style="list-style-type: none"> The objective of this module is to make students familiar with core methods and issues in development economics. This comprises measuring different dimensions of (under-) development, analyzing factors which affect development paths, and evaluating policies aimed at overcoming underdevelopment. Considerable weight will be put on illustrating analytical results by means of empirical country experiences so as to provide a deeper understanding of different country contexts 	
Content:	<p>I. Development Indicators: Concepts and Measurement</p> <ol style="list-style-type: none"> Poverty Inequality Pro-Poor Growth Human Development <p>II. Rural (Under-)Development</p> <ol style="list-style-type: none"> Rural Household Behaviour Coping with Risk and Shocks <p>III. Globalization and Development</p> <ol style="list-style-type: none"> Foreign Trade Migration and Remittances <p>IV. Development Policy and Development Cooperation</p> <ol style="list-style-type: none"> Anti-Poverty Programs Evaluating Anti-Poverty Programs Assessing the Effectiveness of Foreign Aidl. Messkonzepte 	
Knowledge transfer:	Interactive lecture; PowerPoint slides; papers for home studies	
Literature:	Papers in scholarly journals	

Module Code:		VWL-MiFi-ReAu	
Module Name:		International Trade	
Course:		Lecture: International Trade Tutorial: International Trade	
Module responsible:		Prof. Horst Raff, PhD	
Teacher:		Prof. Horst Raff, PhD, Prof. Holger Görg, PhD	
Semester:		4-6	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 30 hrs	
	Self-study:	L: 40 hrs T: 50 hrs	
	total:	L: 70 hrs T: 80 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics, Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture / 2 SWS /100 Tutorial / 2 SWS /100	
Learning targets/competences:		Students will learn the main theories regarding the causes and consequences of international trade, and to apply these theories to interpret fundamental economic trends and to evaluate the effects of trade policy. In particular, students will learn how comparative advantage and economies of scale determine international production and trade patterns, and how international trade affects income distribution and social welfare.	
Content:		1. Introduction <ul style="list-style-type: none"> • Trends in international trade • Recent policy issues • Trade institutions • Gravity equation 2. International Trade Theory <ul style="list-style-type: none"> • Ricardian model • Specific-factors model • Heckscher-Ohlin model • Standard trade model • Trade based on economies of scale • Reciprocal dumping 3. International Trade Policy <ul style="list-style-type: none"> • Instruments of trade policy • Political economy of trade policy 	
Knowledge transfer:		Interactive lecture and tutorials, self-study, reading, solving practice problems.	
Literature:		<ul style="list-style-type: none"> • Paul Krugman, Maurice Obstfeld, Marc Melitz, International Economics: Theory and Policy. 	

Module Code:		VWL-MiFi-RiEn	
Module Name:		Risk and Entrepreneurship	
Course:		Lecture: Risk and Entrepreneurship (Tutorial: Risk and Entrepreneurship)	
Module responsible:		Prof. Aoife Hanley, PhD	
Teacher:		Prof. Aoife Hanley, PhD	
Semester:		4-6	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		English	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs (T: 15 hrs)	
	Self-study:	L: 60 hrs (T: 45 hrs)	
	total:	L: 90 hrs (T: 60 hrs)	Total: 150 hrs
Recommended precognition		Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 50 (Tutorial/ 1 SWS/ 50)	
Learning targets/competences:		<p>The students learn how wealth trade-offs take place at an individual level when outcomes are uncertain. Entrepreneurs are individuals too. Failure risk of business start-ups is high, as students learn from their evaluation of empirical studies on firm failure and bankruptcy. Entrepreneurs appear highly non-rational given persistently high market rates despite high failure rates.</p> <p>Other agents (e.g. banks) act at the entrepreneurship/risk interface. Students learn how these agents seek to reduce their risk exposures through the use of collateral, interest margin and credit scoring.</p>	
Content:		<ol style="list-style-type: none"> 1. Theory of choice under uncertainty <ul style="list-style-type: none"> • The von Neumann-Morgenstern (NM) Model • Spreading risk: diversification scenario • Entrepreneurs: risk loving? • exercises 2. Criticisms of the NM Model <ul style="list-style-type: none"> • Allais and Ellsberg paradoxes • Framing, Heuristics • Application: Deal or No Deal experiments • exercises 3. Market Entry <ul style="list-style-type: none"> • motivations for entrepreneurship • (endogenous entrepreneurship, DNA, biased profit expectations) • Empirical evidence for different models 4. Firm survival risk <ul style="list-style-type: none"> • Hazard survival model • Factors affecting survival • exercises: Cataloging most important aspects of business survival/failure from Munich Foundation Survey (Brüderl et al, ASR) 5. Enterprise credit and risk <ul style="list-style-type: none"> • Theory of credit rationing • Are start-ups debt rationed? • credit scoring 	
Knowledge transfer:		Interactive lecture and exercises, literature study, working on exercises	
Literature:		<ul style="list-style-type: none"> • Topic 1 Frank, R, Microeconomics and Behavior, International Edition, Irwin, McGraw Hill • Topic 2 Post, T et al., , 2009, 'Deal or No Deal? Decision Making under Risk in a Large-Payoff Game Show ', American Economic Review, Vol. 98, No. 1, March 2008 	

Module Code:		VWL-MiFi-Stök	
Module Name:		Urban Economics	
Course:		Lecture: Urban Economics Tutorial: Urban Economics	
Module responsible:		Prof. Dr. Martin Quaas	
Teacher:		Prof. Dr. Martin Quaas	
Semester:		4-6	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs	
	Self-study:	L: 70 hrs T: 35 hrs	
	total:	L: 100 hrs T: 50 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics, Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 70 Tutorial/ 1 SWS/ 70	
Learning targets/competences:		Students learn which economic processes lead to urbanization and which economic factors shape the internal spatial structure of cities. Students shall be able to assess under which circumstances a system of cities is economically efficient, and know mechanisms of efficient provision of local public goods. Students shall understand the role of cities in economic dynamics and growth.	
Content:		<ol style="list-style-type: none"> 1. economic perspective on space and cities 2. historical and recent trends of urbanization 3. internal spatial structure of cities 4. spatial allocation of amenities 5. local public goods 6. growth of cities and patterns of urbanization 7. megacities 	
Knowledge transfer:		interactive lecture and tutorial, literature study, solving of problems in tutorial	
Literature:		<ul style="list-style-type: none"> • M. Fujita; Thisse, J-F. (2002) Economics of Agglomeration, Cambridge University Press. • O'Sullivan, A. (2006) Urban Economics, 6th Edition, McGraw-Hill/Irwin • Ades, A.F.; Glaeser, E.L. (1995) Trade and circuses: explaining urban giants, Quarterly Journal of Economics 110:195-227 • Black, D.; Henderson, J.V. (1999) A Theory of Urban Growth, Journal of Political Economy 107:252-284 • Brueckner, J.K.; Thisse, J.-F.; Zenou, Y. (1999) Why is central Paris rich and downtown Detroit poor?: An amenity-based theory, European Economic Review 43:91-107 	

Module Code:		VWL-MiFi-SuEc	
Module Name:		Sustainability Economics	
Course:		Lecture: Sustainability Economics Tutorial: Sustainability Economics	
Module responsible:		Prof. Dr. Martin Quaas	
Teacher:		Prof. Dr. Martin Quaas	
Semester:		4-6	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		English	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs	
	Self-study:	L: 70 hrs T: 35 hrs	
	total:	L: 100 hrs T: 50 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics, Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 70 Tutorial/ 2 SWS/ 70	
Learning targets/competences:		Students learn the conceptual basis of sustainability as inter- and intragenerational justice, and how sustainability can be operationalized in an economic context. They should become familiar with different conceptualizations of sustainability (weak and strong sustainability, genuine wealth, viability) and the relation of sustainability to economic efficiency. They should know the crucial determinants for sustainable development to be possible and the conditions under which it is socially optimal. They should become able to apply basic methods of analyzing dynamic systems and of dynamic optimization. Students should acquire an informed view on the limits to growth debate and on the most important sustainability issues (climate change, biodiversity loss) from an economic perspective.	
Content:		<ol style="list-style-type: none"> 1. Introduction 2. Concepts and criteria of sustainability as intergenerational justice 3. Basic methods of analyzing dynamic systems and dynamic optimization 4. Methods of sustainability accounting 5. Economics of natural resource use and capital accumulation 6. Climate change as a problem of sustainability economics 7. Economics of biodiversity and sustainable use of ecosystem services 8. Sustainability under uncertainty 	
Knowledge transfer:		interactive lecture and tutorial, literature study, solving of problems in tutorial	
Literature:		<ul style="list-style-type: none"> • S. Baumgärtner and M.F. Quaas (2010), What is sustainability economics, • Ecological Economics, 69: 445:450. • P. Dasgupta and G. Heal (1979), Economic Theory and Exhaustible Resources, • Cambridge University Press • R. Perman, Y. Ma, J. McGilvray and M. Common (2003), Natural Resource and • Environmental Economics, Addison Wesley • J.E. Roemer (1996), Theories of Distributive Justice, Harvard University Press 	

Module Code:		VWL-MiFi-Umök	
Module Name:		Environmental Economics	
Course:		Lecture: Environmental Economics Tutorial: Environmental Economics	
Module responsible:		Prof. Dr. Katrin Rehdanz	
Teacher:		Prof. Dr. Katrin Rehdanz, Prof. Dr. Till Requate	
Semester:		4-6	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs	
	Self-study:	L: 70 hrs T: 35 hrs	
	total:	L: 100 hrs T: 50 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics, Intermediate Microeconomics (basic knowledge)	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 100 Tutorial/ 1 SWS/ 100	
Learning targets/competences:		The lecture provides a comprehensive introduction and contemporary analysis of the major areas of environmental economics. It provides a balance of theory, applications and examples to give a rigorous grounding in the economic analysis of environmental issues that are increasingly prominent policy concerns.	
Content:		<ol style="list-style-type: none"> 1. Introduction 2. Sustainability 3. Ethics and the environment 4. Efficiency and optimality; Market failure and public policy 5. Pollution control: targets 6. Pollution control: instruments 7. Pollution control: uncertainty 8. International environmental problems 9. Cost-benefit analysis 10. Demand for environmental goods and services 11. Environmental valuation 12. Environmental accounting 	
Knowledge transfer:		Interactive lecture and tutorial, lecture notes, literature studies, exercises	
Literature:		<ul style="list-style-type: none"> • Roger Perman, Yue Ma, Michael Common, David Maddison und James McGilvray, 2011, Natural Resource and Environmental Economics (4th Edition), Pearson • Charles D. Kolstad: Environmental Economics, 2000, Oxford University Press 	

Module Code:		VWL-MiFi-Wepo	
Module Name:		Competition Policy	
Course:		Lecture: Competition Policy Tutorial: Competition Policy	
Module responsible:		Prof. Dr. Till Requate	
Teacher:		Prof. Dr. Till Requate	
Semester:		4	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		10 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs	
	Self-study:	L: 70 hrs T: 35 hrs	
	total:	L: 100 hrs T: 50 hrs	Total: 150 hrs
Recommended precognition		Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 100 Tutorial/ 1 SWS/ 100	
Learning targets/competences:		The students will be familiarized with basic principles and concepts of competition law and policy	
Content:		<ul style="list-style-type: none"> • Basic concepts of welfare economics and game theory • Aims of competition policy, history of competition law and policy in the USA, Germany and Europe • Horizontal restraints: cartels, concerted action and other horizontal agreements • Vertical restraints • Abuse of a dominant position • Horizontal mergers and merger control • Joint ventures • Vertical mergers • Public tenders and bid rigging • Other topics policies affecting competition: trade policy, subsidies and state aid, environmental policy 	
Knowledge transfer:		Interactive lectures with tutorials, self-studying, completion of problem sets	
Literature:		<ul style="list-style-type: none"> • Massimo Motta: Competition Policy, Cambridge University Press, 2004 • European Competition Law: Art 101, 102 EU-Treaty, EU merger control regulations, regulations • German Competition Law (Gesetz gegen Wettbewerbsbeschränkungen) 	

Module Code:	VWL-MiFi-Gast
Module Name:	Special Topics in Microeconomics
Offered by visiting researcher or other irregular offer. 5 LP	

(b) Modules „Macroeconomics and Labor Markets“

Module Code:	VWL-MaAm-Arök	
Module Name:	Labor Economics	
Course:	Lecture: Labor Economics Tutorial: Labor Economics	
Module responsible:	Prof. Dennis Snower, PhD	
Teacher:	Prof. Dennis Snower, PhD	
Semester:	4-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Written Examination	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs
	Self-study:	L: 40 hrs T: 65 hrs
	total:	L: 70 hrs T: 80 hrs Total: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics, Intermediate Macroeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture/ 2 SWS/ 100 Tutorial/ 1 SWS/ 100	
Learning targets/competences:	The students should be familiar with basic micro- and macroeconomic theories of the labor market in order to be able to explain the most important empiric regularities and problems of the labor market.	
Content:	<ol style="list-style-type: none"> 1. Problems on the labor market 2. Schools of thought 3. Keynesian influences 4. Globalization, technological progress and inequality 5. Efficiency wages 6. Insiders vs. Outsiders 7. Trade unions 8. Searching behavior 9. Income-based labor market policy 10. Combi wages 11. Analysis of labor market policy under market failure 12. Implications of the finical crisis on the labor market 13. Institutions of the labor market 	
Knowledge transfer:	Interactive lecture and tutorial, lecture notes, literature studies, exercises	
Literature:	<ul style="list-style-type: none"> • International Monetary Fund (1999), "Chronic Unemployment in the Euro Area: Causes and Cures," <i>World Economic Outlook</i>, Ch. 4, Washington, D.C, pp. 88-121. • Blanchard, Olivier, and Lawrence Katz (1997), "What Do We Know and Do Not Know About the Natural Rate of Unemployment?" <i>Journal of Economic Perspectives</i>, 11, 1. • Snower, Dennis (1994), "How are Product Demand Changes Transmitted to the Labor Market?" (with Assar Lindbeck), 1994, <i>Economic Journal</i>, 104 (423), 386-398. • Calvo, Guillermo (1979), "Quasi-Walrasian Theories of Unemployment," <i>American Economic Review Papers and Proceedings</i>, 69(2), 102-107. • Lindbeck, Assar, and Dennis J. Snower (1999), "Insiders versus Outsiders," <i>Journal of Economic Perspectives</i>, Vol. 15 (1), Winter 2001, 165-188. • McDonald, Ian M., and Robert M. Solow (1981), "Wage Bargaining and Employment," <i>American Economic Review</i>, 71, 1981, 896-908. • Bean, Charles R. (1994): "European Unemployment: A Survey," <i>Journal of Economic Literature</i>, 32, 573-619. • Blanchard, Olivier (1997), "The Medium Run," <i>Brookings Papers on</i> 	

	<p><i>Economic Activity</i>, 2, 89-158.</p> <ul style="list-style-type: none">• Karanassou, Marika, and Dennis J. Snower (1998), "How Labour Market Flexibility Affects Unemployment: Long-term Implications of the Chain Reaction Theory," <i>Economic Journal</i>, 108, May, 1-18.• Blanchard, Olivier, and Lawrence Summers (1986), "Hysteresis and the European Unemployment Problem," <i>NBER Macroeconomics Annual</i>, vol. 1, Cambridge, MA: MIT Press.
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Module Code:	VWL-EmWi		
Module Name:	Empirical Economics		
Course:	Lecture: Empirical Economics Tutorial: Empirical Economics		
Module responsible:	Prof. Dr. Uwe Jensen		
Teacher:	Prof. Dr. Uwe Jensen		
Semester:	5		
Frequency:	Annual, winter term		
Duration:	1 semester		
Language:	German		
Attribution to curriculum:	-		
Status:	Elective		
Assessment:	Written Examination		
Credit points / Grade:	5 LP	German scale; ECTS-System	
Work load	Attendance:	L: 30 hrs T:15 hrs	
	Self-study:	L: 60 hrs T: 45 hrs	
	total:	L: 90 hrs T: 60 hrs	Total: 150 hrs
Recommended precognition	Mathematics I and II, Statistics I and II, Introduction to Econometrics		
Applicable in programmes:	-		
Teaching methods/SWS/participants:	Lecture/ 2 SWS/ 120 Tutorial/ 1 SWS/ 120		
Learning targets/competences:	In this module, the students shall learn essential statistical and econometrical methods for the empirical analysis of economic problems, e.g. on data collection, data processing, data analysis and forecasting. After the theoretical presentation of the techniques, the latter are applied to data sets that are analyzed with the software packages Stata and Eviews.		
Content:	<ol style="list-style-type: none"> 1. Data collection 2. Data processing 3. Regression analysis of cross-section data 4. Forecasting 5. Logit models 6. Methodology 		
Knowledge transfer:	Interactive lecture and tutorial, lecture notes, written exercises and PC exercises		
Literature:	<ul style="list-style-type: none"> • Moosmüller, G., <i>Methoden der empirischen Wirtschaftsforschung</i>, Pearson • Ronning, G., <i>Statistische Methoden in der empirischen Wirtschaftsforschung</i>, Lit • Winker, P., <i>Empirische Wirtschaftsforschung und Ökonometrie</i>, Springer 		

Module Code:		VWL-MaAm-GeKrTh	
Module Name:		Theory of Monetary Economics	
Course:		Lecture: Theory of Monetary Economics Tutorial: Theory of Monetary Economics	
Module responsible:		Prof. Dr. Hans-Werner Wohltmann	
Teacher:		Prof. Dr. Hans-Werner Wohltmann	
Semester:		4-6	
Frequency:		Biennial, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs	T: 30 hrs
	Self-study:	L: 40 hrs	T: 50 hrs
	total:	L: 70 hrs	T: 80 hrs
		Total: 150 hrs	
Recommended precognition		Introductory Economics, Intermediate Macroeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 100 Tutorial/ 1 SWS/ 100	
Learning targets/competences:		The lecture gives an overview of traditional theories of money demand and money supply. Furthermore monetary policy strategies like money supply control and inflation control are introduced together with required instruments that allow to attain the goals, respectively.	
Content:		<ol style="list-style-type: none"> 1. Theories of money demand <ol style="list-style-type: none"> 1.1 The portfolio theoretic approach 1.2 The monetarist approach 2. Theory of money supply <ol style="list-style-type: none"> 2.1 Theory of money supply 2.2 Money and credit creation potential of banking systems 2.3 Credit supply and money supply functions 3. Equilibrium analysis of the monetary sector <ol style="list-style-type: none"> 3.1 The money-market-credit-market model 3.2 Transition to a 3-market-model 4. Real effects of monetary impulses <ol style="list-style-type: none"> 4.1 Consideration of the real capital market 4.2 Transmission of monetary impulses 4.3 Monetary shocks in New Keynesian models with money 	
Knowledge transfer:		Interactive lecture and tutorial, reader, literature study, solving exercises	
Literature:		<ul style="list-style-type: none"> • Bofinger, P., J. Reischle und A. Schächter: Geldpolitik. München 1996 • Borchert, M.: Geld und Kredit. München 1999 • Jarchow, H.-J.: Theorie und Politik des Geldes I, 10. Aufl., Göttingen 1998 • Illing, G.: Theorie der Geldpolitik. Berlin 1997 	

Module Code:	VWL-MaAm-MaTr	
Module Name:	Monetary Policy and Transmission Mechanisms	
Course:	Lecture: Monetary Policy and Transmission Mechanisms Tutorial: Monetary Policy and Transmission Mechanisms	
Module responsible:	Prof. Dr. Hans-Werner Wohltmann	
Teacher:	Prof. Dr. Hans-Werner Wohltmann	
Semester:	4-6	
Frequency:	Biennial, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Written Examination	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 30 hrs
	Self-study:	L: 40 hrs T: 50 hrs
	total:	L: 70 hrs T: 80 hrs Total: 150 hrs
Recommended precognition	Introductory Economics Intermediate Macroeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture/ 2 SWS/ 100 Tutorial/ 2 SWS/ 100	
Learning targets/competences:	The lecture gives an overview of the various transmission channels of monetary policy measures in the real goods sector. After this lecture students should be enabled to comprehend (monetary) macroeconomic articles and to independently assess the effectiveness of monetary policy measures and strategies using different macroeconomic paradigms.	
Content:	<ol style="list-style-type: none"> 1. Transmission channels in traditional Keynesian theory 2. Credit channel in money-credit models 3. The expectation channel in New Keynesian macroeconomics 4. New Keynesian macroeconomics of small open economies 	
Knowledge transfer:	Interactive lecture and tutorial, reader, literature study, solving exercises	
Literature:	<ul style="list-style-type: none"> • Felderer, B. und S. Homburg (2005), Makroökonomik und neue Makroökonomik. 9. Auflage, Berlin. • Jarchow, H.-J. (2003), Theorie und Politik des Geldes. 11. Auflage, Göttingen. • Walsh, C.E. (2003), Monetary Theory and Policy, Cambridge (Mass.) • Wohltmann, H.-W. (2007), Grundzüge der makroökonomischen Theorie. Totalanalyse geschlossener und offener Volkswirtschaften. 5. Auflage, München. 	

Module Code:	VWL-Meth	
Module Name:	Methods of Empirical Regional Science	
Course:	Lecture: Methods of Empirical Regional Science PC Tutorial: Methods of Empirical Regional Science	
Module responsible:	Prof. Dr. Annekatrin Niebuhr	
Teacher:	Prof. Dr. Annekatrin Niebuhr	
Semester:	4-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Written Examination and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs
	Self-study:	L: 70 hrs T: 35 hrs
	total:	L: 100 hrs T: 50 hrs Total: 150 hrs
Recommended precognition	Statistics I & II	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture/ 2 SWS/ 10 PC Tutorial/ 1 SWS/ 10	
Learning targets/competences:	<p>The students shall get familiar with basic problems and techniques of empirical work and of applying multivariate descriptive and econometric methods in regional economics. For various regional economic questions they shall learn which regional data sources and empirical methods are suitable, how to apply them and how to interpret the results obtained.</p> <p>The empirical methods are presented theoretically in the lecture before the students apply them in exercises on prevalent regional economic questions in the computer lab. The software the students use includes Excel and Stata.</p>	
Content:	<ol style="list-style-type: none"> 1. Problems of regional statistics, scale of measurement, data access, data sourcing 2. Delineation of regions 3. Quantitative indicators, the method of 4. Description of spatial structures: measures of specialization and spatial concentration 5. Concept of regional potential, measures of regional accessibilities 6. Typification of regions: cluster analysis 7. Shift-Share analysis of regional economic development 8. The linear regression model 9. Analysis of regional economic development: Shift-Share regression 10. Convergence regression 11. Analysis of trade flows: Gravity regression 	
Knowledge transfer:	Interactive lecture, guided completion of exercises in the computer lab, interpretation of results	
Literature:	<ul style="list-style-type: none"> • Backhaus, K., et al., Multivariate Analysemethoden: Eine anwendungsorientierte Einführung, 14th ed., Springer, Berlin, 2016. • Bröcker, J., u. M. Fritsch, Ökonomische Geographie, Vahlen, München, 2012. • Von Auer, L., Ökonometrie: Eine Einführung, 6th ed., Springer, Berlin, 2013. 	

Module Code:	VWL-MaAm-MonEc	
Module Name:	Monetary Economics	
Course:	Lecture: Monetary Economics Tutorial: Monetary Economics	
Module responsible:	Prof. Dr. Thomas Lux	
Teacher:	Prof. Dr. Thomas Lux	
Semester:	4-6	
Frequency:	Biennial, summer term – alternating with the lecture “Geld- und Kredittheorie”	
Duration:	1 semester	
Language:	English	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Written Examination	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs
	Self-study:	L: 70 hrs T: 35 hrs
	total:	L: 100 hrs T: 50 hrs Total: 150 hrs
Recommended precognition	Introductory Economics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture/ 2 SWS/ 400 Tutorial/ 1 SWS/ 100	
Learning targets/competences:	This module builds upon the knowledge that students have acquired in Macroeconomics. It introduces students to the theoretical background and the practice of monetary policy in modern economies. It starts with an introduction to the role of money in the economy, moving on to theories of money supply and demand as well as the various channels of the monetary transmission mechanism. The remainder of the module discusses the relationship between monetary policy strategies and their implementations, the policy instruments of central banks and the track record of monetary policy in the major currency areas. We also discuss the ‘unconventional’ monetary policy as a reaction to the financial crisis of the years 2007/08 as well as current issues in the conduct of monetary policy within the European Monetary Union.	
Content:	<ol style="list-style-type: none"> 1. Introduction: Emergence and Measurement of ‚Money‘ 2. Money Demand 3. Money Supply: Constrained or Endogenous? 4. Theory of Money Supply 5. The Policy Instruments of Central Banks 6. Strategies of Monetary Policy and their Development over Time 7. The Problem of Credibility of Central Banks 8. Current Issues of Monetary Policy 	
Knowledge transfer:	Interactive lecture and tutorial, reader, study of literature, solving exercises	
Literature:	<ul style="list-style-type: none"> • Handa, J., Monetary Economics, 2nd. ed. New York 2009 • Lewis, M. and P. Mizen, Monetary Economics, Oxford 2009 • Walsh, C., Monetary Theory and Policy, 3rd ed. Cambridge 2010 	

Module Code:		VWL-MaAm-NeMa	
Module Name:		Macroeconomics I	
Course:		Lecture: Macroeconomics I Tutorial: Macroeconomics I	
Module responsible:		Prof. Dr. Hans-Werner Wohltmann	
Teacher:		Prof. Dr. Hans-Werner Wohltmann	
Semester:		4-6	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 30 hrs	
	Self-study:	L: 40 hrs T: 50 hrs	
	total:	L: 70 hrs T: 80 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics Intermediate Macroeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture, 2 SWS, 100 Tutorial, 1 SWS, 100	
Learning targets/competences:		The lecture deals with new developments in macroeconomics, especially with microfounded approaches. After this lecture students should be enabled to comprehend macroeconomic articles and to independently assess macroeconomic issues using different macroeconomic paradigms.	
Content:		<ol style="list-style-type: none"> 1. Basics of Neokeynesian Theory 2. Monetarism and advancements 3. Baseline model of New Keynesian macroeconomics 4. Completely microfounded New Keynesian macroeconomics 	
Knowledge transfer::		Interactive lecture and tutorial, reader, literature study, solving exercises	
Literature:		<ul style="list-style-type: none"> • Felderer, B. und S. Homburg (2005), Makroökonomik und neue Makroökonomik. 9. Auflage, Berlin. • Jarchow, H.-J. (2003), Theorie und Politik des Geldes. 11. Auflage, Göttingen. • Walsh, C.E. (2003), Monetary Theory and Policy, Cambridge (Mass.) 	

Module Code:		VWL-MaAm-ÖkEI	
Module Name:		Economics of European Integration	
Course:		Lecture: Economics of European Integration (Tutorial: Economics of European Integration)	
Module responsible:		Prof. Dr. Matthias Lücke	
Teacher:		Prof. Dr. Matthias Lücke	
Semester:		5	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs (T: 15 hrs)	
	Self-study:	L: 70 hrs (T: 35 hrs)	
	total:	L: 100 hrs (T: 50 hrs)	Total: 150 hrs
Recommended precognition		Intermediate Microeconomics, Intermediate Macroeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture, 2 SWS, 30 (Tutorial, 1 SWS, 30)	
Learning targets/competences:		Students learn about key economic aspects of European Integration and analyze the effects of important EU policies using simple economic models.	
Content:		<ol style="list-style-type: none"> 1. History of European integration, EU institutions, EU decision rules 2. Microeconomic aspects: preferential trade liberalization, market integration with differentiated products and economies of scale, factor market integration 3. Macroeconomic aspects: exchange rate regime, optimal currency area 4. Sectorial and regional policies: competition policy, external trade policy 5. Monetary and fiscal policy, European monetary union 	
Knowledge transfer:		Interactive lecture, lecture slides, textbook, discussion of new academic papers	
Literature:		<ul style="list-style-type: none"> • Textbook: Baldwin, Richard, Charles Wyplosz, The Economics of European Integration, 5th ed. 2015 (McGraw-Hill) 	

Module Code:	VWL-MaAm-StoV	
Module Name:	Open Economy Macroeconomics	
Course:	Lecture: Open Economy Macroeconomics Tutorial: Open Economy Macroeconomics	
Module responsible:	Prof. Dr. Hans-Werner Wohltmann	
Teacher:	Prof. Dr. Hans-Werner Wohltmann	
Semester:	4-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Written Examination	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 30 hrs
	Self-study:	L: 40 hrs T: 50 hrs
	total:	L: 70 hrs T: 80 hrs
Recommended precognition	Introductory Economics Intermediate Macroeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Lecture, 2 SWS, 100 Tutorial, 2 SWS, 100	
Learning targets/competences:	The lecture gives an overview of stabilization policy measures. After this lecture students should be enabled to comprehend macroeconomic articles and to independently assess the effectiveness of monetary and fiscal policy measures in open economies.	
Content:	<ol style="list-style-type: none"> 1. Comparative-static analysis of stabilization policy measures in a small open economy 2. Monetary, fiscal and demand policy in a large open economy 3. Static approaches in New Keynesian macroeconomics 4. Dynamic effects of monetary and fiscal policy measures in open economies 5. New Keynesian macroeconomics 	
Knowledge transfer::	Interactive lecture and tutorial, reader, study of literature, solving exercises	
Literature:	<ul style="list-style-type: none"> • Gärtner, M. (2003), Macroeconomics. Financial Times Prentice Hall, Harlow. • Wohltmann, H.-W. (2007), Grundzüge der makroökonomischen Theorie. Totalanalyse geschlossener und offener Volkswirtschaften. 5. Auflage, München. • Turnovsky, S. J. (2000), Methods of Macroeconomic Dynamics. Second Edition. MIT Press, Cambridge. 	

Module Code:	VWL-MaAm-Gast
Module Name:	Special Topics in Macroeconomics
Offered by visiting researcher or other irregular offer. 5 LP	

(c) Optional Section in Economics - Seminars**a. Modules „Microeconomics and Public Economics“**

Module Code:		VWL-SMiFi-Exp	
Module Name:		Seminar in Experimental Economics	
Course:		Seminar: Experimental Economics	
Module responsible:		Prof. Dr. Menusch Khadjavi	
Teacher:		Prof. Dr. Menusch Khadjavi	
Semester:		3-6	
Frequency:		No defined frequency, usually in the summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Seminar Paper and Assignment	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs	
	Self-study:	S: 120 hrs	
	total:	S: 150 hrs	Total: 150 hrs
Recommended precognition		Introduction to Economics, Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Seminar/ 2 SWS/ 25	
Learning targets/competences:		The students ought to get an overview of the latest developments in experimental economic research. They need to do literature research, write an independent term paper and present their findings in a presentation in the seminar. Besides the content of the course, the aim is to teach students scientific writing and presentation techniques. These methods establish the fundamental knowledge that is necessary to write the bachelor thesis at the end of the course of study.	
Key competences:		<ul style="list-style-type: none"> • Competence for independent work on a self-selected topic • Media competence • Social skills while working and discussing research with fellow students and the professor 	
Content:		Diverse topics from experimental economics	
Media/Software:		Project slides, black board, white board, flipchart	

Module Code:	VWL-SMiFi-FiSo	
Module Name:	Seminar in Public Finance and Social Policy	
Course:	Seminar: Public Finance and Social Policy	
Module responsible:	Prof. Dr. Ulrich Schmidt	
Teacher:	Prof. Dr. Ulrich Schmidt	
Semester:	5-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics, Public Finance and Social Policy	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	Students have to research recent developments on specific economic issues, prepare a seminar paper independently and present their content during the summer. Basics of scientific work as well as presentation techniques should be practiced. This should also be a preparation for the bachelor thesis.	
Key competences:	<ul style="list-style-type: none"> • Acquisition of personal skills by editing a topic • Acquisition of methodological competences (scientific work, presentation skills, media skills) • Acquisition of social skills through the guidance of discussions and cooperation in groups 	
Contents:	Changing topics from the field of public finance and social policy	
Media/ Software:	Projector, board, flip chart	

Module Code:	VWL-SMiFi-HaVe	
Module Name:	Seminar in Trade Policy and Distribution	
Course:	Seminar: Trade Policy and Distribution	
Module responsible:	Prof. Dr. Manfred Wiebelt	
Teacher:	Prof. Dr. Manfred Wiebelt	
Semester:	4-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German and English	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Written Examination	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 2 full days, equivalent to 16 hrs
	Self-study:	S: 134 hrs
	total:	S: 150 hrs Total: 150 hrs
Recommended precognition	Lecture and tutorial: Trade policy and income distribution	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 30	
Learning targets/competences:	<p>An independent undergraduate research project,</p> <ul style="list-style-type: none"> • involving the application of techniques of economic analysis (SAM construction, SAM aggregation, SAM-based descriptive statistics, CGE analysis) acquired during the summer-term lecture and tutorial to a self-chosen research topic in trade policy issues and self-chosen developing country • and the presentation and defense of a written report during the 2-days seminar 	
Key competences:	Abilities to independently analyze a research topic, use appropriate economic tools, present original results, and to interpret results both from economic intuition and model background	
Content:	<ul style="list-style-type: none"> • Alternative topics on globalization, trade policy, and income distribution • Computable general equilibrium (CGE) analysis of distributional and poverty impacts of trade policy measures 	
Media/Software:	Powerpoint, GAMS, MS Excel	

Module Code:	VWL-SMiFi-PED	
Module Name:	Seminar in Poverty, Equity and Development	
Course:	Seminar: Poverty, Equity and Development	
Module responsible:	Prof. Dr. Rainer Thiele	
Teacher:	Prof. Dr. Rainer Thiele	
Semester:	4-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German and English	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 16 hrs
	Self-study:	S: 134 hrs
	total:	S: 150 hrs
Recommended precognition	Poverty, Equity and Development	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	Deepening the contents of the lecture "Poverty, Equity and development" Practicing the skills that are necessary for writing a scientific paper; thereby preparing for the requirements of the bachelor thesis	
Key competences:	<ul style="list-style-type: none"> • Independent processing of a specific problem • Methodological skills: scientific work, presentation skills, media skills • Social and communication skills through discussions in the group and the guidance of discussion 	
Content:	Selected development-economic topics	
Media/ Software:	Projector, board, flip chart	

Module Code:	VWL-SMiFi-ReAu	
Module Name:	Seminar in International Trade	
Course:	Seminar: International Trade	
Module responsible:	Prof. Horst Raff, PhD	
Teacher:	Prof. Horst Raff, PhD, Prof. Holger Görg, PhD	
Semester:	5-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics, Intermediate Macroeconomics, International Trade	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided.	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Content:	Alternating topics from the field of international trade	
Media/Software:	Projector, board, flip chart	

Module Code:	VWL-SMiFi-RaRe	
Module Name:	Seminar in Regional Development and Policy	
Course:	Seminar: Regional Development and Policy	
Module responsible:	NN	
Teacher:	NN	
Semester:	5-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics, Regional Development and Policy	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided.	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Content:	Alternating topics from the field of Regional Development and Policy	
Media/Software:	Projector, board, flip chart	

Module Code:	VWL-SMiFi-RiEn	
Module Name:	Seminar in Risk and Entrepreneurship	
Course:	Seminar: Risk and Entrepreneurship	
Module responsible:	Prof. Aoife Hanley, PhD	
Teacher:	Prof. Aoife Hanley, PhD	
Semester:	5-6	
Frequency:	Biennial, winter term	
Duration:	1 semester	
Language:	English	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	None	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 1,5 SWS/ 18	
Learning targets/competences:	Ability to synthesize and interpret journal articles on entrepreneurship and risk. Ability to present original work.	
Content:	<ol style="list-style-type: none"> 1. Effects of the composition of firm finance structure on survival 2. Credit constraints on the survival of the firm 3. Earlier predictors of survival (n Mata and Portugal (1994)) 4. Wagner's work on German firm survival: German firms not representative 5. Being an internationalized firm & other factors all help survival 6. Size does not matter: being in a knowledge industry does for survival 7. Survival depends on external factors (e.g. Government) not entrepreneur type 8. Von Neuman Morgenstern good model for individuals & entrepreneurs under uncertainty 9. Expected Utility Theory a realistic model? 10. Experimental evidence supports Expected Utility Theory? 11. Evaluation of 'Deal or no Deal' experiment 12. Experiments undermining Expected Utility Theory 13. Wealth on market entry, survival and growth 14. Size, growth, entry and survival of firms 15. Collateral and interest margins no use to banks. Improve information 16. Business-Bank relationships help and don't exploit borrowers 17. Business-Bank relationships only exist because of switching costs 18. Survival differs across countries because of differences in Government regulation 19. Information asymmetry is the bank's fault 20. The bright ideas get screened out: a discussion of Freel and other literature on innovation and credit 21. Over-confidence among entrepreneurial types leads to excess entry. Banks right to reject 22. Credit scoring will make lending to start-ups more competitive 	
Knowledge transfer::	Interactive seminar, emphasis on 1-to-1 teaching and generation of original ideas. Critical literature review.	
Literature:	Various from the refereed economic literature	

Module Code:	VWL-SMiFi-Stök	
Module Name:	Seminar in Urban Economics	
Course:	Seminar: Urban Economics	
Module responsible:	Prof. Dr. Martin Quaas	
Teacher:	Prof. Dr. Martin Quaas	
Semester:	5-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	Students research developments in the recent literature in urban economics, present results in the seminar and write a seminar paper. Students learn about principles of scientific research and presentation techniques. The seminar provides skills required for the Bachelor thesis.	
Key competences:	<ul style="list-style-type: none"> • self-competency by independently working on a specific topic • media competency: techniques of oral presentation and writing • social competency in group discussions and scientific collaboration with other students 	
Content:	Selected topics of urban economics	
Media/ Software:	Computer presentation, black board	

Module Code:	VWL-SMiFi-Umök	
Module Name:	Seminar in Environmental Economics	
Course:	Seminar: Environmental Economics	
Module responsible:	Prof. Dr. Katrin Rehdanz	
Teacher:	Prof. Dr. Katrin Rehdanz, Prof. Dr. Till Requate	
Semester:	5-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics, Environmental Economics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Content:	Alternating topics from the field of environmental economics	
Media/Software:	Projector, board, flip chart	

Module Code:		VWL-SMiFi-Wepo	
Module Name:		Seminar in Competition Policy	
Course:		Seminar: Competition Policy	
Module responsible:		Prof. Dr. Till Requate	
Teacher:		Prof. Dr. Till Requate	
Semester:		5	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Seminar Paper and Assignment	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs	
	Self-study:	S: 120 hrs	
	total:	S: 150 hrs	Total: 150 hrs
Recommended precognition		Intermediate Microeconomics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Seminar/ 2 SWS/ 30	
Learning targets/competences:		The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper and to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided	
Key Competences:		<ul style="list-style-type: none"> • Acquisition of self-competency by dealing with a given topic • Acquisition of methodical competency (academic work, presentation techniques, media skills) • Acquisition of social/communicative competency by chairing discussions and working in groups 	
Content:		Different recent topics on Economics and Ethics	
Media/ Software:		Presentation with power point, blackboard or flip-chart	

Module Code:	VWL-SMiFi-EcEth	
Module Name:	Seminar in Economics and Ethics	
Course:	Seminar: Economics and Ethics	
Module responsible:	Prof. James Konow, PhD	
Teacher:	Prof. James Konow, PhD	
Semester:	3-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Microeconomics, Economics and Ethics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 30	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper and to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided	
Key Competences:	<ul style="list-style-type: none"> • Acquisition of self-competency by dealing with a given topic • Acquisition of methodical competency (academic work, presentation techniques, media skills) • Acquisition of social/communicative competency by chairing discussions and working in groups 	
Content:	Different recent topics on competition policy	
Media/ Software:	Presentation with power point, blackboard or flip-chart <ul style="list-style-type: none"> • Massimo Motta: Competition Policy, Cambridge University Press, 2004 • European Competition Law: Art 101, 102 EU-Treaty, EU merger control regulations, regulations • Journal articles 	

b. Modules “Macroeconomics and Labor Markets”

Module Code:		VWL-SMaAm-Arök	
Module Name:		Seminar in Labor Economics	
Course:		Seminar: Labor Economics	
Module responsible:		Prof. Dennis Snower, PhD	
Teacher:		Prof. Dennis Snower, PhD	
Semester:		5-6	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Seminar Paper and Assignment	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs	
	Self-study:	S: 120 hrs	
	total:	S: 150 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics, Intermediate Microeconomics, Intermediate Macroeconomics, Labor Economics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Seminar/ 2 SWS/ 25	
Learning targets/competences:		The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided	
Key competences:		<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Content:		Alternating topics from the field of labor economics	
Media/Software:		Projector, board, flip chart	

Module Code:	VWL-SMaAm-GeKr	
Module Name:	Seminar in Theory of Monetary Economics	
Course:	Seminar: Theory of Monetary Economics	
Module responsible:	Prof. Dr. Hans-Werner Wohltmann	
Teacher:	Prof. Dr. Hans-Werner Wohltmann	
Semester:	5-6	
Frequency:	Biennial, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Macroeconomics, Theory of Money and Credit	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Content:	Alternating topics from the field of money and credit	
Media/Software:	Projector, board, flip chart	

Module Code:	VWL-SMaAm-Makr	
Module Name:	Seminar in Macroeconomics (start: WS17/18)	
Course:	Seminar: Macroeconomics	
Module responsible:	Prof. Dr. Hans-Werner Wohltmann	
Teacher:	Prof. Dr. Hans-Werner Wohltmann	
Semester:	5-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Macroeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Content:	Alternating topics from the field of macroeconomics	
Media/Software:	Projector, board, flip chart	

Module Code:		VWL-SMaAm-MaTr	
Module Name:		Seminar in Monetary Policy and Transmission	
Course:		Seminar: Monetary Policy and Transmission	
Module responsible:		Prof. Dr. Hans-Werner Wohltmann	
Teacher:		Prof. Dr. Hans-Werner Wohltmann	
Semester:		5-6	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Elective	
Assessment:		Seminar Paper and Assignment	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs	
	Self-study:	S: 120 hrs	
	total:	S: 150 hrs	Total: 150 hrs
Recommended precognition		Introductory Economics, Intermediate Macroeconomics, Macroeconomic Transmission Mechanism	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Seminar/ 2 SWS/ 25	
Learning targets/competences:		The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided.	
Key competences:		<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Content:		Alternating topics from the field of monetary macroeconomics	
Media/Software:		Projector, board, flip chart	

Module Code:	VWL-SMaAm-MonEc	
Module Name:	Seminar in Monetary Economics	
Course:	Seminar: Monetary Economics	
Module responsible:	Prof. Dr. Thomas Lux	
Teacher:	Prof. Dr. Thomas Lux	
Semester:	5-6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Macroeconomics, Monetary Economics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided.	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Contents:	Alternating topics from the field of macroeconomics	
Media/Software:	Projector, board, flip chart	

Module Code:	VWL-SMaAm-NeMa	
Module Name:	Seminar in Macroeconomics I	
Course:	Seminar: Macroeconomics I	
Module responsible:	Prof. Dr. Hans-Werner Wohltmann	
Teacher:	Prof. Dr. Hans-Werner Wohltmann	
Semester:	5-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Macroeconomics, New Macroeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided.	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Contents:	Alternating topics from the field of macroeconomics	
Media/ Software:	Projector, board, flip chart	

Module Code:	VWL-SMaAm-ÖkEI	
Module Name:	Seminar in Economics of European Integration	
Course:	Seminar: Economics of European Integration	
Module responsible:	Prof. Dr. Matthias Lücke	
Teacher:	Prof. Dr. Matthias Lücke	
Semester:	6	
Frequency:	Annual, summer term	
Duration:	1 semester	
Language:	German and English	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Intermediate Microeconomics, Intermediate Macroeconomics	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 30	
Learning targets/competences:	<p>Students learn to conduct a full academic literature search on an economic policy issue related to European integration, to write a seminar paper based on their findings, and to present the paper to seminar participants. In the process, they deepen their competences related to academic writing and presentation:</p> <ul style="list-style-type: none"> • Subject matter: economic aspects of European integration • Self-competence: successfully undertake a complex project (planning and execution of literature search, critical reading of literature, academic writing, presentation) • Methodological competences: techniques of academic research and writing, presentation techniques, use of media • Social/ communicative competences: participate in academic seminar discussion, write and present a comment on another seminar paper 	
Content:	Current topics in the economics of European integration	
Knowledge transfer:	Literature search, feedback from academic teachers, seminar discussion	
Literature:	<ul style="list-style-type: none"> • Textbook: Baldwin, Richard, Charles Wyplosz, The Economics of European Integration, 5th ed. 2015 (McGraw-Hill) • Academic papers on current topics 	

Module Code:	VWL-SMaAm-NeMa	
Module Name:	Seminar in Open Economy Macroeconomics	
Course:	Seminar: Open Economy Macroeconomics	
Module responsible:	Prof. Dr. Hans-Werner Wohltmann	
Teacher:	Prof. Dr. Hans-Werner Wohltmann	
Semester:	5-6	
Frequency:	Annual, winter term	
Duration:	1 semester	
Language:	German	
Attribution to curriculum:	-	
Status:	Elective	
Assessment:	Seminar Paper and Assignment	
Credit points / Grade:	5 LP	German scale, ECTS-System
Work load	Attendance:	S: 30 hrs
	Self-study:	S: 120 hrs
	total:	S: 150 hrs
Recommended precognition	Introductory Economics, Intermediate Macroeconomics, Stabilization Policy in Open Economies	
Applicable in programmes:	-	
Teaching methods/SWS/participants:	Seminar/ 2 SWS/ 25	
Learning targets/competences:	The student is supposed to investigate on newer developments of certain economic topics, to independently write a term paper und to give a presentation about its contents. Thereby basics of scientific work as well as presentation techniques are supposed to be practiced. Through this the foundation for writing the bachelor thesis is provided	
Key competences:	<ul style="list-style-type: none"> • Acquisition of self-competence by working on a topic • Acquisition of methodological competence (techniques of scientific work, Presentation techniques, media skills) • Acquisition of social competence by moderating discussions and cooperation in groups 	
Contents:	Alternating topics from the field of macroeconomics of open economies	
Media/Software:	Projector, board, flip chart	

B. Compulsory Section in Mathematics, Statistics and Econometrics

Module Code:		VWL-CoDA	
Module Name:		Computer-Assisted Data Analysis	
Course:		Lecture: Computer-Assisted Data Analysis Tutorial: Computer-Assisted Data Analysis	
Module responsible:		Dipl.-Inf. Albrecht Mengel	
Teacher:		Dipl.-Inf. Albrecht Mengel	
Semester:		3	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Compulsory	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs	
	Self-study:	L: 70 hrs T: 35 hrs	
	total:	L: 100 hrs T: 50 hrs	Total: 150 hrs
Recommended precognition		None	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 160 Tutorial/ 1 SWS/ 160	
Learning targets/competences:		Computer skills. Dealing with statistical application software. Working with empirical data. Simple programming skills.	
Content:		"Computergestützte Datenanalyse with Excel": <ul style="list-style-type: none"> • Introduction to Excel. • Working with data sets. • Graphing representation of data. • Computation of statistical measures. "Computergestützte Datenanalyse with Matlab": <ul style="list-style-type: none"> • Interpreter environment, matrix operations, and functions. • Minima and zeros search, linear optimization, Monte Carlo methods. • Computation of statistical measures. • Graphical representation. 	
Knowledge transfer:		Interactive lecture and exercises, working on exercises	
Literature:		<ul style="list-style-type: none"> • Script with detailed solutions, sketches, and videos. • The statistical background is covered by the material provided during the lectures „Methodenlehre der Statistik“. • There are online tutorials and scripts for Excel and Matlab. 	

Module Code:		VWL-EIÖK	
Module Name:		Introduction to Econometrics	
Course:		Lecture: Introduction to Econometrics Tutorial: Introduction to Econometrics	
Module responsible:		Prof. Dr. Kai Carstensen	
Teacher:		Prof. Dr. Kai Carstensen	
Semester:		4	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Compulsory	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale; ECTS-System
Work load	Attendance:	L: 30 hrs T: 15 hrs	
	Self-study:	L: 70 hrs T: 35 hrs	
	total:	L: 100 hrs T: 50 hrs	Total: 150 hrs
Recommended precognition		Mathematics I and II Statistics I and II	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 300 Tutorial/ 1 SWS/ 300 Voluntary computer tutorial/ 1 SWS/ 100	
Learning targets/competences:		Uncover empirical relationships between economic variables by means of linear and nonlinear regressions. Perform inference using finite-sample and asymptotic properties of OLS estimators. Understand threats to model validity. Apply to real data using econometric software.	
Content:		<ul style="list-style-type: none"> • Review of finite-sample and asymptotic statistical theory • Linear regression models • Matrix algebra of linear regression models • Inference using linear regression models • Nonlinear regression models, dummy variables, and interactions • Threats to model validity: omitted variable bias, measurement error, sample selection 	
Knowledge transfer:		Lecture, tutorial, computer tutorial, self-studying, solving exercises	
Literature:		<ul style="list-style-type: none"> • J. H. Stock and M. M. Watson (2012) Introduction to Econometrics, 3. ed, Pearson (International Edition) 	

Module Code:		VWL-MATH1	
Module Name:		Mathematics I (Analysis)	
Course:		Lecture: Mathematics I Tutorial: Mathematics I	
Module responsible:		Prof. Dr. Uwe Jensen	
Teacher:		Prof. Dr. Uwe Jensen	
Semester:		1	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Compulsory	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs	T: 30 hrs
	Self-study:	L: 30 hrs	T: 60 hrs
	total:	L: 60 hrs	T: 90 hrs
Recommended precognition:		None	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 500 Tutorial/ 2 SWS/ 500	
Learning targets/competences:		The first goal of this module is to equalize the rather inhomogeneous mathematical skills of the first-year students. Economic application and geometric intuition are very important in the introduction of the mathematical concepts. The students shall understand the fundamental methods of calculus that are strongly required in their next semesters. Moreover, they will become acquainted with the foundation of economic model building.	
Content:		<ol style="list-style-type: none"> 1. Basics 2. Functions of one variable 3. Elementary functions 4. Sequences, series, limits, continuity 5. Differential calculus 6. Differentiable functions of several variables 7. Optimization 	
Knowledge transfer:		Interactive lecture and tutorial, lecture notes, exercises	
Literature:		<ul style="list-style-type: none"> • Jensen, U.: <i>Wozu Mathe in den Wirtschaftswissenschaften?</i> Vieweg + Teubner • Jensen, U.: <i>Mathematik für Wirtschaftswissenschaftler</i>. Oldenbourg. • Jensen, U.: <i>Klausursammlung zur Mathematik für Wirtschaftswissenschaftler</i>. Oldenbourg. • Adams, G., H.-J. Kruse, D. Sippel, U. Pfeiffer: <i>Mathematik zum Studieneinstieg</i>. Springer. • Cramer, E., J. Neslehova, <i>Vorkurs Mathematik</i>, Springer. • Opitz, O.: <i>Mathematik, Lehrbuch für Ökonomen</i>. Oldenbourg. • Opitz, O.: <i>Mathematik, Übungsbuch für Ökonomen</i>. Oldenbourg. • Sydsaeter, K., P. Hammond,: <i>Mathematik für Wirtschaftswissenschaftler</i>, Pearson. • Tietze, J.: <i>Einführung in die angewandte Wirtschaftsmathematik</i>. Springer. • Tietze, J.: <i>Übungsbuch zur angewandten Wirtschaftsmathematik</i>. Springer. 	

Module Code:		VWL-MATH2	
Module Name:		Mathematics II (Linear Algebra)	
Course:		Lecture: Mathematics II Tutorial: Mathematics II	
Module responsible:		Prof. Dr. Uwe Jensen	
Teacher:		Prof. Dr. Uwe Jensen	
Semester:		1	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Compulsory	
Assessment:		Written Examination	
Credit points / Grade:		5 LP	German scale, ECTS-System
Work load	Attendance:	L: 30 hrs T: 30 hrs	
	Self-study:	L: 30 hrs T: 60 hrs	
	total:	L: 60 hrs T: 90 hrs	Total: 150 hrs
Recommended precognition		Mathematics I	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 2 SWS/ 300 Tutorial/ 2 SWS/ 300	
Learning targets/competences:		Economic application and geometric intuition are very important in the introduction of the mathematical concepts. The students shall understand the fundamental methods of calculus and linear algebra that are strongly required in their next semesters. Moreover, they will become acquainted with the foundation of economic model building.	
Content:		Approximation Integral calculus Vector and matrix algebra Matrix inverse and linear equation systems Eigenvalue problems	
Knowledge transfer:		Interactive lecture and tutorial, lecture notes, exercises	
Literature:		<ul style="list-style-type: none"> • Jensen, U.: <i>Wozu Mathe in den Wirtschaftswissenschaften?</i> Vieweg + Teubner • Jensen, U.: <i>Mathematik für Wirtschaftswissenschaftler</i>. Oldenbourg. • Jensen, U.: <i>Klausursammlung zur Mathematik für Wirtschaftswissenschaftler</i>. Oldenbourg. • Adams, G., H.-J. Kruse, D. Sippel, U. Pfeiffer: <i>Mathematik zum Studieneinstieg</i>. Springer. • Cramer, E., J. Neslehova, <i>Vorkurs Mathematik</i>, Springer. • Opitz, O.: <i>Mathematik, Lehrbuch für Ökonomen</i>. Oldenbourg. • Opitz, O.: <i>Mathematik, Übungsbuch für Ökonomen</i>. Oldenbourg. • Sydsaeter, K., P. Hammond,: <i>Mathematik für Wirtschaftswissenschaftler</i>, Pearson. • Tietze, J.: <i>Einführung in die angewandte Wirtschaftsmathematik</i>. Springer. • Tietze, J.: <i>Übungsbuch zur angewandten Wirtschaftsmathematik</i>. Springer. 	

Module Code:		VWL-STAT1	
Module Name:		Statistics I	
Course:		Lecture: Statistics I Tutorial: Statistics I	
Module responsible:		Dr. Jan Roestel	
Teacher:		Dr. Jan Roestel	
Semester:		2	
Frequency:		Annual, summer term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		Compulsory Section BSc. Economics	
Status:		Compulsory	
Assessment:		Written Examination	
Credit points / Grade:		10 LP	German scale, ECTS-System
Work load	Attendance:	L: 60 hrs T: 30 hrs	
	Self-study:	L: 140 hrs T: 70 hrs	
	total:	L: 200 hrs T:100 hrs	Total: 300 hrs
Recommended precognition		Introductory Economics	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 4 SWS/ 400 Tutorial/ 2 SWS/ 400	
Learning targets/competences:		This course provides an introduction to the most common methods used to conveniently describe and summarize the informational content of Data sets. In this context the student will be taught to characterize the empirical frequency distribution of a given variable in terms of suitable statistical measures.	
Content:		<ul style="list-style-type: none"> • Key Statistics to describe empirical distribution functions of categorical, comparative and quantitative data • Concentration Analysis • Descriptive Regression analysis • Descriptive Time Series Analysis • Price and Quantity Indices 	
Knowledge transfer:		Interactive lecture and exercise, study of literature, preparation of exercises.	
Literature:		<ul style="list-style-type: none"> • Bamberg, G. und F. Baur, Statistik, Oldenbourg, 2002. • Fahrmeir, L., Künstler, R., Pigeot, I., und G. Tutz, Statistik, Springer 1999. • Hartung, J., Elpelt, B., und K-H. Klösener: Statistik, Oldenbourg, 2002. • Missong, M. und S. Mitnik, Deskriptive Statistik, Pro Business, 2005. • Schira, J., Statistische Methoden der BWL und VWL, Pearson 2005 	

Module Code:		VWL-STAT2	
Module Name:		Statistics II	
Course:		Lecture: Statistics II Tutorial: Statistics II	
Module responsible:		Dr. Jan Roestel	
Teacher:		Dr. Jan Roestel	
Semester:		3	
Frequency:		Annual, winter term	
Duration:		1 semester	
Language:		German	
Attribution to curriculum:		-	
Status:		Compulsory	
Assessment:		Written Examination	
Credit points / Grade:		10 LP	
Work load	Attendance:	L: 60 hrs T: 30 hrs	
	Self-study:	L: 140 hrs T: 70 hrs	
	total:	L: 200 hrs T: 100 hrs	Total: 300 hrs
Recommended precognition		Statistics II	
Applicable in programmes:		-	
Teaching methods/SWS/participants:		Lecture/ 4 SWS/ 400 Exercise/ 2 SWS/ 400	
Learning targets/competences:		Inductive statistics provides methods to infer from the characteristics of an observable data sample on the characteristics of an unobserved Population. Sampling is random, and, hence, Inference is subject to random errors, too. However, it is often possible to assess this uncertainty and to account for it in the inferential process. Against this background, several methods are introduced.	
Content:		<ul style="list-style-type: none"> • Probability theory • Univariate and multivariate random variables, Distribution functions • Theory of sampling • Point-and interval estimation • Hypothesis testing • Inference in the linear regression framework 	
Knowledge transfer:		Interactive lecture and exercise, study of literature, preparation of exercises.	
Literature:		<ul style="list-style-type: none"> • Bamberg, G. und F. Baur, Statistik, Oldenbourg, 2002. • Fahrmeir, L., Künstler, R., Pigeot, I., und G. Tutz, Statistik, Springer 1999. • Hartung, J., Elpelt, B., und K-H. Klösener: Statistik, Oldenbourg, 2002. • Missong, M. und S. Mittnik, Induktive Statistik, Pro Business, 2005. • Schira, J., Statistische Methoden der BWL und VWL, Pearson 2005. • Schneider, W., Kornrumpf, J., und W. Mohr, Statistische Methodenlehre - Definitionen- und Formelsammlung mit Erläuterungen, Oldenbourg, 1995 	