



**Course Catalog Fall Semester 2018/2019**  
**Master of Economics**



## Contents

Preparatory Module in Mathematics .....	3
E600 Mathematics .....	3
Core Modules .....	5
E601 Advanced Microeconomics.....	5
E602 Advanced Macroeconomics .....	6
E603 Advanced Econometrics.....	7
Compulsory Modules for the Competition and Regulation Economics Track.....	9
E5060 Interdisciplinary Competition and Regulation Seminar .....	9
Elective Modules: Lectures .....	10
E504 International Trade and Tax Policy Analysis.....	10
E563 Game Theory.....	10
E5008 Economic and Financial Market Policy .....	11
E5026 Programming in Stata.....	12
E5040 Impact Evaluation .....	13
E5049 Topics in Macroeconomics and Labor Markets .....	14
E5064 Empirical Methods in Competition Policy.....	14
E5070 Economics of Social Insurance and Labor Market Policies.....	15
E5075 Social Choice and Mechanism Design.....	16
E5076 Topics in Time Series Analysis.....	16
E5078 Global Health .....	18
Elective Modules: Seminars .....	20
E585 Topics in Multiple Time Series Analysis.....	20
E599 Empirical Environmental Economics.....	20
E5002 History of Modern Economics .....	21
E5020 Topics in Empirical Microeconomics .....	22
E5061 Firms in the Aggregate Economy.....	22
E5066 Experimental Public Choice.....	23
E5071 The Private Provision of Public Goods.....	24
E5072 Topics in Business Cycles.....	25
E5073 The Economics of Motivated Beliefs.....	26
E5074 Economics of Innovation and Intellectual Property.....	26
E5077 Intergenerational Mobility and Inequality.....	27
Additional Courses for Economists.....	28
E5051 Mannheim Competition Policy Forum.....	28
Curriculum.....	29

## Preparatory Module in Mathematics

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<b>Module number and title</b>	<b>E600 Mathematics</b>
<b>Form and usability of the module</b>	Optional preparatory module for M.Sc. Economics
<b>Responsible teacher of the module</b>	Simona Helmsmüller
<b>Cycle of offer</b>	Every fall semester
<b>Course language</b>	English
<b>Prerequisites</b>	Basic knowledge in logic and set theory
<b>Goals and contents of the module</b>	<p>This course is a preparatory math course. I will thus try to make sure that you do not start the program without mastering what can be considered as the most basic mathematical concepts for a graduate student in economics. My objective is for you to:</p> <ul style="list-style-type: none"> <li>• Grasp key concepts and develop an intuition for basic mathematical constructs (for example derivatives, integrals and matrices);</li> <li>• Get familiar with mathematical notation and logic (such as distinguishing between axioms and theorems, following formal proofs);</li> <li>• Know when and how to apply the main theorems covered in this course (in particular Lagrange theorem).</li> </ul> <p>The plan therefore is as follows:</p> <ul style="list-style-type: none"> <li>• Introduction to vector spaces</li> <li>• Introduction to matrix algebra</li> <li>• Multivariate calculus and integral calculus</li> <li>• Convex Optimization</li> <li>• Introduction to stochastics and statistics</li> </ul> <p>Note that this structure is not final yet and there may be some changes.</p> <p>While the lecture sessions will be concept- rather than proof-oriented, by the end of the course, at the very least you should be comfortable with mathematical notation and logic, and should know that you need not be scared of formal proofs. At the same time, while the exercises will not be of the “cookbook” form, they should serve as a good warm-up for what will follow in the first term master courses.</p>
<b>When?</b>	<p>This is a intensive course and will take place in the week prior to the beginning of the semester. The course will consist of lectures and exercise sessions, which take place at the following hours: Monday, 27 August to Friday, 31 August, 09:00 - 16:30 in B6, 30-32, room 108</p> <p>Despite these official hours, we shall be flexible to divide our time between lectures, exercise and breaks each day so as to best suit our needs.</p> <p>As in most courses, you will need to put some extra time into preparing the exercises for the next session on your own. Problem sets will be handed out during the lecture and most of them will be discussed during the next days. I expect every participant to actively contribute to the discussions.</p>
<b>For whom?</b>	Already feel familiar with all the above mentioned topics? Great! The course is not mandatory but an offer to ensure that you will be able to follow through the

	<p>compulsory lectures of the first term. If you are not sure whether your understanding of the concepts suffices, you can look through previous exercises, downloadable at <a href="http://leducjustin.wordpress.com/teaching/e600-mathematics-university-of-mannheim-fall-2014/">http://leducjustin.wordpress.com/teaching/e600-mathematics-university-of-mannheim-fall-2014/</a>.</p> <p>If you know how to approach the majority of these problems, you will most likely be fine. If there are any uncertainties, I highly recommend you participate at the course and refresh your memory.</p>
<b>Any Prerequisite?</b>	<p>I will assume that you are well acquainted with basic logic and naïve set theory though. <b>To make sure you indeed are, you should carefully read through the notes (chapter 0) downloadable at my webpage (see below).</b> We will go through some exercises on these topics in the first lecture and you will get the most out of it if you are well prepared.</p>
<b>Any Readings?</b>	<p>Lecture notes, slides, and problem sets will be uploaded on my webpage in due time:  <a href="https://helmsmueller.wordpress.com/teaching/">https://helmsmueller.wordpress.com/teaching/</a></p> <p>If you feel you need some additional readings, you may want to have a look at <b>Carl P. Simon / Lawrence Blume (1994): Mathematics for Economists, 1st Edition. W.W. Norton &amp; Company</b>, but there are many other good books around and I recommend you to have a look at many of them before you buy any to find one which best suits your personal needs.</p>
<b>How to participate?</b>	<p>If you want to participate, please send me an email (<a href="mailto:simona.helmsmueller@gess.uni-mannheim.de">simona.helmsmueller@gess.uni-mannheim.de</a>) to register for the course by August 15, 2018 at the latest! Please mention your previous degrees and background in mathematics, and also let me know whether you intend to participate in the Monday lectures during the term. There is no need to register elsewhere.</p>
<b>Contact information</b>	<p>Simona Helmsmüller; email: <a href="mailto:simona.helmsmueller@gess.uni-mannheim.de">simona.helmsmueller@gess.uni-mannheim.de</a></p>

## Core Modules

<b>Module number and title</b>	<b>E601 Advanced Microeconomics</b>
<b>Form and usability of the module</b>	Core course for M. Sc. Economics
<b>Responsible teacher of the module</b>	Dr. Emanuele Tarantino and Lily Ling Yang, Ph.D.
<b>Cycle of offer</b>	Each fall semester
<b>ECTS credits</b>	10
<b>Teaching method (hours per week)</b>	Lecture (4) + exercise (2)
<b>Workload</b>	300 working hours, containing 63 hours in class and 237 hours independent study time and preparation for the exam
<b>Course language</b>	English
<b>Prerequisites</b>	Students should be familiar with mathematical methods as covered in the preparation course E600. Some prior background in microeconomics on the level of Varian, “Intermediate Microeconomics”, or Pindyck and Rubinfeld, “Microeconomics”, is helpful.
<b>Grading and ECTS credits</b>	Midterm exam (60 min, 50%), final exam (60 min, 50%)
<b>Goals and contents of the module</b>	<p>The first part of the course gives a foundation for studies of microeconomics on a graduate level. It covers classical consumer demand under certainty, utility maximization and cost minimization, choice under uncertainty, and general equilibrium.</p> <p>Contents:</p> <ol style="list-style-type: none"> <li>1. Consumer Choice (MWG Ch. 2; V)</li> <li>2. Classical Demand Theory (MWG Ch. 3; V)</li> <li>3. Producer Theory (MWG Ch. 3; V)</li> <li>4. Choice Under Uncertainty (MWG Ch. 6; V)</li> <li>5. General Equilibrium Theory (MWH, Ch. 15 and 16; V)</li> </ol> <p>The second part is devoted to the study of game theory and the economics of information. It first studies the fundamental of game theory, games under incomplete information, and different equilibrium refinement concepts. It then addresses principal-agent problems under asymmetric information. Two main topics are investigated: adverse selection and moral hazard.</p> <p>Contents:</p> <ol style="list-style-type: none"> <li>1. Static Non-Cooperative Games (MWG Ch. 7 and 8)</li> <li>2. Dynamic Non-Cooperative Games (MWG Ch. 9)</li> <li>3. Adverse selection: rent extraction-efficiency trade-off (LM, Ch. 2)</li> <li>4. Incentive and participation constraints with adverse selection (LM, Ch. 3)</li> <li>5. Adverse selection with a continuum of types (LM, Ch. 3)</li> <li>6. Moral hazard: the basic trade-offs (LM, Ch. 4)</li> <li>7. Incentive and participation constraints with moral hazard (LM, Ch. 5)</li> </ol>
<b>Expected competences acquired after completion of the module</b>	Students acquire knowledge of core microeconomic concepts underlying economics at the Masters level. Students also acquire skills to solve microeconomic problems in exercises.
<b>Further information</b>	Recommended textbooks:

	<ul style="list-style-type: none"> <li>• Laffont, J.-J., Martimort, D. (2002). The theory of incentives: the principal-agent model. Princeton University Press, Princeton and Oxford (LM).</li> <li>• Mas-Colell, A., Whinston, M. D. Green, J. (1995). Microeconomic Theory. Oxford University Press (MWG).</li> <li>• Varian, H. (1992). Microeconomic Analysis. Northon &amp; Company, New York and London (V).</li> </ul>
<b>Expected number of students in class</b>	60
<b>Contact information</b>	

<b>Module number and title</b>	<b>E602 Advanced Macroeconomics</b>
<b>Form and usability of the module</b>	Core module for Master in Economics
<b>Responsible teacher of the module</b>	Krzysztof Pytka
<b>Cycle of offer</b>	Each fall semester
<b>ECTS credits</b>	10
<b>Teaching method (hours per week)</b>	Lecture (4) + exercise (2)
<b>Workload</b>	300 working hours, containing 63 hours in class and 237 hours independent study time and preparation for the exam
<b>Course language</b>	English
<b>Prerequisites</b>	Good working knowledge of calculus (constrained optimization, multivariate Taylor expansion, geometric series)
<b>Grading and ECTS credits</b>	Written midterm exam (60min, 50%), final exam (60min, 50%), assignments (up to 10% bonus)
<b>Goals and contents of the module</b>	<p>The course familiarizes students with the essential concepts of modern macroeconomic theory at an advanced level .</p> <p>A particular focus will be placed on learning how to use formal microfounded models to analyze and understand both economic growth dynamics and business cycle fluctuations.</p> <p>In order to guide the economic modeling, the course will use empirical data to generate stylized facts about economic growth and business cycles that useful models must aim to explain, both quantitatively and qualitatively.</p> <p>In terms of economic models, the following topics will be covered:</p> <ul style="list-style-type: none"> <li>- Growth Theory: the Solow Model, the Ramsey-Cass-Koopmans Model, and Endogenous Growth Theory.</li> <li>- Business Cycles: the Real Business Cycle Model, the Classical Monetary Model, and the basic New Keynesian Model.</li> </ul> <p>During the course students will also learn the necessary techniques to solve dynamic stochastic models both analytically and numerically using Dynare. While the course will be mostly concerned with positive economic theory, students will also learn to derive and understand the normative and policy implications of the covered models.</p>
<b>Expected competences acquired after completion of the module</b>	Completion of this course is a core requirement for our Master programs in Economics. It prepares students to successfully participate in advanced field courses offered in this program. . Together with the companion courses in microeconomics and econometrics, this course will enable students to develop their own research agenda for the Master program as well as a PhD

	<p>program that they may want to pursue subsequent to this Master program. Having completed these courses, students will feel comfortable reading journal articles at the frontier of modern economic research.</p> <p>A particular focus will be placed on obtaining technical skills, i.e. log-linearization techniques, solving linear rational expectations models, etc.</p>
<b>Further information</b>	<p>Additional teacher: Xiaodi Wang, Andrej Alexandrov</p> <p>The mandatory textbook chapters and articles will be announced in the lecture.</p> <p>The following books are good references for the topics covered:</p> <p>Acemoglu, Daron (2008), Introduction to Modern Economic Growth, Princeton University Press</p> <p>Sala-I Martin, Xavier/Barro, Robert (2003): Economic Growth, MIT Press, 2nd edition</p> <p>McCandless, George (2008), The ABCs of RBCs - An Introduction to Dynamic Macroeconomic Models, Harvard University Press</p> <p>Romer, David (2011): Advanced Macroeconomics, McGraw-Hill, 4th edition</p> <p>King, R. Rebelo, S. (1999): Resuscitating Real Business Cycles, in: Taylor/Woodford (Hrsg.): Handbook of Macroeconomics, Vol. 1, pp. 927-1007.</p> <p>Gali, Jordi (1999): Technology, Employment, and the Business Cycle: Do Technology Shocks Explain Aggregate Fluctuations?, American Economic Review 89(1), pp. 249-271</p> <p>Gali, Jordi (2008): "Monetary Policy, Inflation, and the Business Cycle", Princeton University Press</p> <p>Walsh, Carl. E. (2010): Monetary Theory and Policy, MIT Press, 3rd edition</p>
<b>Expected number of students in class</b>	60
<b>Contact information</b>	

<b>Module number and title</b>	<b>E603 Advanced Econometrics</b>
<b>Form and usability of the module</b>	Core course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Markus Frölich
<b>Cycle of offer</b>	Each fall semester
<b>ECTS credits</b>	10
<b>Teaching method (hours per week)</b>	Lecture (4) + Exercise (2)
<b>Workload</b>	240 working hours, containing 47.25 hours in class and 192.75 hours independent study time and preparation for the exam
<b>Course Language</b>	English
<b>Prerequisites</b>	Undergraduate level of econometrics
<b>Grading and ECTS credits</b>	Final exam (120 min, 100%)

<b>Goals and contents of the module</b>	<p>The goal of the module is to offer advanced treatment to econometric theory and to serve as the gate way to further advanced theoretical and applied econometric modules offered in the economics graduate program at the Department of Economics in Mannheim.</p> <p>The module offers a revision of undergraduate level econometrics before moving on to extensive coverage of large-sample theory and some organizing estimation principles such as GMM and Extremum estimators. Asymptotic properties of these estimators are also the focus of the module as well as non-linear models and the treatment of serial correlation.</p>
<b>Expected competences acquired after completion of the module</b>	<p>On successful completion of the module, students are expected to attain the following competences:</p> <p>Attain advanced theoretical knowledge in econometrics in the specific topics the module covers at a high technical and mathematical level.</p> <p>Be familiar with current theories and recent developments in the specific topics of focus for the module.</p> <p>Attain a higher/advanced level of analytical capability.</p> <p>Be in a position to take on follow-up advanced theoretical and applied econometrics modules.</p> <p>Attain the level of competence that permits independent undertakings in search of new knowledge in the specialist areas the module covers.</p> <p>Attain the level of competence required to carry out (theoretical) research-oriented projects independently.</p> <p>To be in a position to exchange information, ideas, and solutions with experts of the field on a scientific level as well as with laymen.</p> <p>To be able to communicate and to work effectively and efficiently with people and in groups.</p> <p>Graduates are able to communicate precisely in the English specialist language.</p>
<b>Further information</b>	<p>Recommended textbooks:</p> <p>Wooldridge (2010): <i>Econometric Analysis of Cross Section and Panel Data</i>. MIT Press.</p> <p>Heij, De Boer, Franses, Kloek, and Van Dijk (2004): <i>Econometric Methods with Applications in Business and Economics</i>. Oxford University Press.</p> <p>Kirchgässner, Wolters (2007): <i>Introduction to Modern Time Series Analysis</i>.</p> <p>Kirchgässner, Wolters (2006): <i>Einführung in die moderne Zeitreihenanalyse</i>.</p>
<b>Expected number of students in class</b>	60
<b>Contact information</b>	



## Compulsory Modules for the Competition and Regulation Economics Track

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<b>Module number and title</b>	<b>E5060 Interdisciplinary Competition and Regulation Seminar</b>
<b>Form and usability of the module</b>	Compulsory course for M. Sc. Economics with specialization Competition and Regulation Economics, Compulsory course for Master in Competition and Regulation Law (LL.MM.)
<b>Responsible teacher of the module</b>	Prof. Dr. Volker Nocke
<b>Cycle of offer</b>	Once a year
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Seminar (2)
<b>Workload</b>	150 working hours, containing 21 hours in class and 129 hours independent study time and preparation
<b>Course language</b>	English
<b>Prerequisites</b>	E505 for Economics students
<b>Grading and ECTS credits</b>	Written report (30 %), Presentation (50 %), Class participation and discussion (20 %).
<b>Goals and contents of the module</b>	In this seminar economics and law students will form mixed teams to analyze EU (and possibly UK) competition cases as well as regulatory proposals from a law and economics perspective. These case teams will take the perspective of the different parties involved and present their line of argument in class.
<b>Expected competences acquired after completion of the module</b>	Students learn to read, present, and critically evaluate cases. Students in economics will also improve their communication skills regarding the practice of competition law.
<b>Further information</b>	
<b>Expected number of students in class</b>	15
<b>Contact person</b>	Prof. Dr. Martin Peitz; email: martin.peitz@gmail.com; Office: L7, 3-5, 3rd floor, room 330

## Elective Modules: Lectures

<b>Module number and title</b>	<b>E504 International Trade and Tax Policy Analysis</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. in Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Eckhard Janeba
<b>Cycle of offer</b>	Irregular
<b>ECTS-credits</b>	7
<b>Teaching method (hours per week)</b>	Lecture (2) + exercise (1)
<b>Workload</b>	210 working hours, containing 31.5 hours class time and 178.5 hours independent study time and preparation for the exam.
<b>Course language</b>	English
<b>Prerequisites</b>	For Economics students: E601-603 (or equivalent); for MMM and Business Mathematics students: Business Economics I and II or equivalent
<b>Requirements for the assignment of ECTS-credits and grades</b>	Final exam (120 min, 50%) and problem sets (50%)
<b>Goals and contents of the module</b>	<p>This course deals with trade and public policies in open economies with a focus on recent policy debates. At the same time we provide foundations for policy analysis by studying theoretical models. A tentative list of topics and questions is as follows:</p> <ul style="list-style-type: none"> <li>How does trade affect wages and unemployment?</li> <li>Is free trade good for the environment?</li> <li>How do firms respond to trade liberalization?</li> <li>Does trade integration increase or decrease tax competition?</li> <li>Who lobbies for trade protection?</li> <li>Does international trade erode culture?</li> <li>Is international tax competition welfare improving?</li> <li>Does globalization shrink the welfare state?</li> </ul>
<b>Expected competences acquired after completion of the module</b>	Understanding of current theoretical and empirical literature on trade and tax policy; ability to critically assess policy debates on globalization; familiarity with standard theoretical trade models and important data sets.
<b>Further information</b>	See Syllabus
<b>Expected number of students in class</b>	15
<b>Contact information</b>	Prof. Dr. Eckhard Janeba; Phone: 181-1795; email: janeba@uni-mannheim.de; Office: L 7, 3-5, room 229

<b>Module number and title</b>	<b>E563 Game Theory</b>
<b>Form and usability of the module</b>	Elective course for M. Sc. Economics
<b>Responsible teacher of the module</b>	Dr. Cédric Wasser
<b>Cycle of offer</b>	Irregular

<b>ECTS credits</b>	9
<b>Teaching method (hours per week)</b>	Lecture (2) + exercise (2)
<b>Workload</b>	270 working hours, containing 42 hours class time and 228 hours independent study time and preparation for the exam.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-E603 (or equivalent)
<b>Grading and ECTS-Credits</b>	Written exam (90 min, 100%)
<b>Goals and contents of the module</b>	This course provides a thorough treatment of game theory, which is a formal framework for analyzing strategic interactions. It revisits, expands on, and complements the game-theoretic concepts introduced in E601 Advanced Microeconomics. Covering static and dynamic games of complete and incomplete information, this course defines suitable solution concepts and discusses various economic applications. As time permits, also an introduction to evolutionary or cooperative game theory will be included. The exercises allow students to familiarize themselves with the use of game-theoretic tools and to study further applications.
<b>Expected competences acquires after completion of the module</b>	The students know game theory at an advanced level. They are able to describe strategic interactions formally, identify and apply suitable solution concepts, and critically evaluate the resulting prediction of behavior and outcomes. Moreover, the students understand the key ideas of game-theoretic reasoning used in academic research in economics and other disciplines.
<b>Further information</b>	
<b>Expected number of students in class</b>	20
<b>Contact information</b>	Dr. Cédric Wasser; email: wasser@uni-mannheim.de

<b>Module number and title</b>	<b>E5008 Economic and Financial Market Policy</b>
<b>Form and usability of the module</b>	Elective course for M. Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Grüner
<b>Cycle of offer</b>	once
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Lecture (2)
<b>Workload</b>	150 working hours, containing 21 hours class time and 129 hours independent study time
<b>Course language</b>	English
<b>Prerequisites</b>	E601-E603 (or equivalent)
<b>Grading and ECTS-Credits</b>	<ul style="list-style-type: none"> <li>• First draft of slides for case presentation (due ten days before the presentation): 10 percent.</li> <li>• Case presentation: 30 percent.</li> <li>• Final exam (60 Minutes): 60 percent.</li> </ul>
<b>Goals and contents of the module</b>	This course offers an introduction to several important economic policy questions that are related to financial markets. I present basic analytical instruments and provide an overview of some fundamental results from general equilibrium theory. Based on this, we study why financial markets are needed in practice. We analyze in detail the role of financial intermediaries and study cases in which financial markets fail to work properly and we discuss appropriate policy responses. The last sessions are devoted to the analysis of fiscal and monetary policy measures that may affect financial

	markets and to the design of a new financial and economic order in Europe.  Course Structure 1. Analytical instruments/ basic results 2. The role of financial intermediaries 3. Financial market imperfections 4. Fiscal sustainability 5. Monetary policy institutions 6. Towards a consistent European economic policy framework
<b>Expected competences acquires after completion of the module</b>	
<b>Further information</b>	
<b>Expected number of students in class</b>	16
<b>Contact information</b>	Prof. Dr. Grüner; Phone: (0621) 181-1886; email: gruener@uni-mannheim.de; Office: L7, 3-5, room 2-06

<b>Module number and title</b>	<b>E5026 Programming in Stata</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Dr. Ingo Steinke; Dr. Atika Pasha
<b>Cycle of offer</b>	Each fall semester
<b>ECTS credits</b>	7
<b>Teaching method (hours per week)</b>	Lecture (2) and exercise (1)
<b>Workload</b>	210 hours in total; 31.5 hours class time and 178.5 hours for independent studies, project and exam preparation
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	Final exam (100%)
<b>Goals and contents of the module</b>	<p>Although Stata already offers a large number of econometric tools, novel approaches are often not available and have to be implemented by users. This course offers an introduction to advanced programming in Stata.</p> <p>Since comparatively few people know how to do so, Stata programming skills can be a competitive advantage. The lecture will start with an introduction to efficiently written do-files (including data processing). We will look at and discuss different data types. In hands-on sessions students will be taught how to prepare the data for analysis. Variables will be generated and their distributions explored; data will be merged; and regression results will be critically discussed. Moreover, in this course students will learn how to implement new commands for Stata and to conduct Monte Carlo simulations. These are important for verification of implementations and are used as a very important tool to analyse the small sample properties of estimators and to complement the theoretical properties of estimators making them an integral part of econometric analyses. We will also touch upon Stata's matrix programming language Mata, non-linear optimization, e.g. ML estimation and</p>

	bootstrap methods.
<b>Expected competences acquired after completion of the module</b>	Die Studierenden sind in der Lage, quantitative Methoden in Stata selbständig zu programmieren. Sie kennen Stata und Mata als Programmiersprachen und verstehen die Standardsyntax bzw. die Grammatik der Sprachen. Dadurch haben sie auch erlernt, Statas Kommandos besser zu verstehen und auch gegebenenfalls anzupassen. Ihr Wissen können die Studenten auf verschiedene Datensätze anwenden. Sie sind in der Lage, aufwändige Analysen zu automatisieren und damit effizienter zu arbeiten. Darüber hinaus sind sie in der Lage, Monte Carlo Simulationen durchzuführen und deren Ergebnisse zu interpretieren und zu verwenden, um die Güte von Schätzverfahren einzuschätzen. Sie können Stichproben aus einer großen Auswahl von Verteilungen generieren. Mit Hilfe von Monte-Carlo-Simulationen erreichen die Studenten ein besseres Verständnis für die Unsicherheit und Güte von Schätz- und Testverfahren.
<b>Further information</b>	Cameron/ Trivedi (2009). <i>Mircoeconometrics using Stata</i> . Stata Press.
<b>Expected number of students in class</b>	40
<b>Contact information</b>	Dr. Atika Pasha; Phone: (0621) 181 1843; email: pasha(at)uni-mannheim.de Dr. Ingo Steinke; Phone: (0621 )181 1940; email: isteinke(at)rumms.uni-mannheim.de

<b>Module number and title</b>	<b>E5040 Impact Evaluation</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. in Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Markus Frölich
<b>Cycle of offer</b>	Each fall semester
<b>ECTS Credits</b>	9
<b>Teaching method (hours per week)</b>	Lecture (2) + exercise (2)
<b>Workload</b>	270 working hours, containing 42 hours class time and 228 hours independent study time
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	tba
<b>Goals and contents of the module</b>	In this course we will cover impact evaluation methods as well as models for survey methodology. Topics will include counterfactual outcomes, heterogeneous treatment effects, (propensity) score matching, differences in differences, instrumental variables designs, randomized control trials, regression discontinuity design and various methods for collecting primary data. More details will follow.
<b>Expected competences acquired after completion of the module</b>	The students become acquainted with modern methods in impact evaluation.
<b>Further information</b>	tba
<b>Expected number of students in class</b>	20 (maximum)
<b>Contact Information</b>	Anja Dostert; Phone: (0621) 181-1920; e-mail: dostert@uni-mannheim.de; office: L7, 3 - 5, room 1.21/1.22

<b>Module number and title</b>	<b>E5049 Topics in Macroeconomics and Labor Markets</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. in Economics
<b>Responsible teacher of the module</b>	Anne Hannusch, Ph.D.
<b>Cycle of offer</b>	Irregular
<b>ECTS Credits</b>	5
<b>Teaching method (hours per week)</b>	Lecture (2)
<b>Workload</b>	150 working hours, containing 21 hours class time and 129 hours independent study time and preparation of term paper
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	Final Exam (90 min, 60%) and assignments (40%)
<b>Goals and contents of the module</b>	In this course, we will summarize selected empirical observations on wages, earnings, income, consumption and wealth from cross-sectional, household level data and document some empirical puzzles. We will then develop extensions of standard macroeconomic theory to explain these puzzles. The overarching theme of the course will be how public policies impact consumption, savings and time allocation decisions of different types of households. Topics will include time allocation within the household, income dynamics, joint and individual taxation, and means-tested social programs.
<b>Expected competences acquired after completion of the module</b>	The course introduces students to important extensions of standard macroeconomic theory that give novel answers various policy-relevant questions. Students will also be familiar with data facts that motivate these theories.
<b>Further information</b>	
<b>Expected number of students in class</b>	20
<b>Contact Information</b>	Anne Hannusch; Phone: (0621) 181-3751; email: TBA, Office: L7,3-5, P.03; Office hours: by appointment

<b>Module number and title</b>	<b>E5064 Empirical Methods in Competition Policy</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Dr. Helena Perrone
<b>Cycle of offer</b>	Each fall semester
<b>ECTS credits</b>	9
<b>Teaching method (hours per week)</b>	Lecture (2) + exercise (2)
<b>Workload</b>	270 hours, containing 42 hours class time and 228 hours independent study, solution of problem sets and preparation for exam.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	Final exam (120 min, 70%) + assignments (30%)
<b>Goals and contents of the module</b>	The objective of the course is to introduce students the empirical analysis of market power and applications to competition policy. The first part of the course will cover the main methods to measure market power, such as the

	<p>identification of conduct and estimation of demand systems with differentiated products. The second part will provide competition policy applications, including empirical approaches to market definition, methods to evaluate the impact of mergers, methods to identify cartels and estimate cartel damages, and analysis of anticompetitive effects of vertical restrictions. The material is illustrated with several European or U.S. cases.</p> <p>In contrast with the Empirical Industrial Organization course, this course is more focused on the practice of competition policy rather than research.</p>
<b>Expected competences acquired after completion of the module</b>	The students will get familiarized with the main techniques used to measure market power and identify cartels, as well as to evaluate non-competitive behavior of oligopolistic firms. They will be able to apply these techniques in different competition cases and also evaluate and identify weakness and strength in competition studies. Furthermore, students will develop the skill to adapt and extend the empirical techniques presented to specific cases in which there is limited time and data availability.
<b>Further information</b>	The reading list for this class is composed of a number of recent academic articles and competition cases. The list of articles will be presented as the subject develops.
<b>Expected number of students in class</b>	12 (max 15)
<b>Contact information</b>	Helena Perrone; email: helenaperrone@gmail.com

<b>Module number and title</b>	<b>E5070 Economics of Social Insurance and Labor Market Policies</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Han Ye
<b>Cycle of offer</b>	Each fall semester
<b>ECTS credits</b>	7,5
<b>Teaching method (hours per week)</b>	Lecture (3)
<b>Workload</b>	210 working hours, containing 36 hours class time and 174 hours independent study time and preparation for the exam
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent). Experience with statistical software such as Stata will be helpful.
<b>Grading and ECTS credits</b>	final exam (52%) + assignments (48%)
<b>Goals and contents of the module</b>	This course focuses on the role of public policy and government regulation in the labor market using the tools of applied economics. The overarching theme of the course will be to consider how public policies influence labor market outcomes such as employment, wages, and the distribution of income. It covers topics the impact of public policies such as social welfare programs, taxation, income transfer programs, minimum wage laws; and the impacts of mandated employer benefits such as health insurance, unemployment insurance and public pension insurance. The class will teach some basic econometrics and most problem sets involve analyzing data in the software package Stata.
<b>Expected competences acquired after completion of the module</b>	The goal of the course is to provide a thorough understanding of central concepts in social insurance and public policies, learn mathematical models to clarify economic interactions and problems and to provide an introduction into empirical research in public policy.



<b>Expected number of students in class</b>	15- 35
<b>Contact Information</b>	Han Ye; (further details tbd)

<b>Module number and title</b>	<b>E5075 Social Choice and Mechanism Design</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Dr. Cédric Wasser
<b>Cycle of offer</b>	Irregular
<b>ECTS credits</b>	7
<b>Teaching method (hours per week)</b>	Lecture (2) + exercise (1)
<b>Workload</b>	210 working hours, containing 31.5 hours class time and 178.5 hours independent study time and preparation for the exam.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	Written exam (90 min, 100%)
<b>Goals and contents of the module</b>	This course consists of two parts. The first part is devoted to social choice theory. Social choice theory studies collective decision making, i.e., how individual opinions of members of a society can be combined (e.g., by voting) to reach a decision or a ranking of alternatives. This part of the course introduces the basic concepts and covers Arrow's impossibility theorem, the Gibbard-Satterthwaite theorem, and single-peaked preferences. The second part provides an introduction to the theory of mechanism design. This field studies how to best design economic institutions when participants have private information. Examples include auctions and public good provision. The topics covered in this part of the course are implementation, the revelation principle, Vickrey-Clarke-Groves mechanisms, characterization of incentive compatibility, optimal auctions, and the Myerson-Satterthwaite theorem for bilateral trade.
<b>Expected competences acquired after completion of the module</b>	The students know the key concepts and results of the theory of social choice and mechanism design. They are able to apply these concepts to describe, analyze, compare, and critically evaluate particular collective decision rules and mechanisms. Moreover, the students' acquired knowledge enables them to access the large research literature in economics that makes use of these concepts.
<b>Further information</b>	
<b>Expected number of students in class</b>	20
<b>Contact Information</b>	Dr. Cédric Wasser; email: wasser@uni-mannheim.de

<b>Module number and title</b>	<b>E5076 Topics in Time Series Analysis</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Mehdi Hosseinkouchack, Dr.



<b>Cycle of offer</b>	Irregular
<b>ECTS credits</b>	9
<b>Teaching method (hours per week)</b>	Lecture (2) + exercise (2)
<b>Workload</b>	270 working hours, containing 42 hours class time and 228 hours independent study time and preparation for the exam.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	Final exam (120 min, 70%) + assignments (30%)
<b>Goals and contents of the module</b>	<p>This module discusses the following topics:</p> <ol style="list-style-type: none"> <li>1. Univariate time series analysis – ARMA – Forecasting</li> <li>2. Unit root testing</li> <li>3. Spectral analysis</li> <li>4. Long Memory and fractional integration</li> <li>5. Conditional heteroscedasticity &amp; stochastic volatility models</li> <li>6. Panel Unit root testing</li> </ol> <p>This module is designed for Master students who already have some heard econometrics courses at the Bachelor’s level and have a good knowledge on ordinary least squares and would like to delve into the world of time series analysis, possibly assume quantitative roles in financial industry or research centers in central banks or similar institutes. Those participants who would like to continue their studies at a PhD level will also benefit from this course. The course starts with a solid discussion on univariate time series models with a clear focus on the dynamics behind the well-known models for serial correlations, name <b>Autoregressive Moving Average</b> models [ARMA]. We then discuss <b>forecasting</b> time series, in details, both on theoretical and on applied grounds. We then delve into the realm of nonstationary time series, discussing how to tell stationary time series from non-stationary ones apart. <b>Unit root testing</b> is in particular important when assuming forecasting tasks and of course, when it comes to the analysis of macroeconomics or financial series. Discussing unit root testing, further, opens a natural path to follow towards the analysis of co-movements and the discussion of spurious regressions (which will just be briefly touched on but is out of the scope of this module). We will also discuss spectral analysis for time series that is aimed at detecting cyclical movements in time series. <b>Long memory processes</b> make for our next fruitful topic in this course. These processes play an important role for modeling time series whose temporal dependence dies out very slowly. After briefly discussing stochastic processes, we will discuss <b>conditional heteroscedasticity and stochastic volatility models</b> as our next topic. These are well-known models for time-varying variances, which are intrinsic to most financial series. The last topic we cover in this course is an extension of univariate unit root tests to panel data. <b>Panel unit root tests</b> are easy to trace in most international macroeconomic and international finance applications and in fact their name speaks for their relevance in such frameworks since the participants have already come to learn about unit root tests and their relevance for quantitative analysis. The course includes examples on each topic, analyzing different problems using a statistical software.</p>
<b>Expected competences acquired after completion of the module</b>	Upon completing this course, the students will have a deep understanding of many important tools in time series analysis as well as topics in panel data analysis. The course has both applied and theoretical flavors and is meant to prepare the participants to assume graduate level quantitative roles and to possibly continue their studies at a PhD level as well. In particular,

	<ul style="list-style-type: none"> <li>• the participants will grasp the ideas behind the dynamics of forecasting models using Autoregressive Moving Average models;</li> <li>• the participants will learn how to detect seasonal behaviors in time series;</li> <li>• the participants will learn what unit root tests are and will be able to apply such tests in respective frameworks where the explosive behavior of times series shall be taken care of properly;</li> <li>• the participant will learn models for time series with quite persistent autocorrelations, e.g. U.S. unemployment rate, and exhibit the so-called long memory;</li> <li>• the participants will learn how to model volatility for financial time series;</li> <li>• the participants will finally learn how to apply unit root tests in a panel data framework and will be able to distinguish between different testing procedures and merits of each;</li> <li>• the participants will learn to conduct their analyses based on the methods discussed above using a statistical software.</li> </ul>
<b>Further information</b>	<p>References used for this course are</p> <ul style="list-style-type: none"> <li>• Peter J. Brockwell and Richard A. Davis (1996) Introduction to Time Series and Forecasting, Springer.</li> <li>• In Choi (2015), Almost all about unit roots, Cambridge University Press.</li> <li>• James D. Hamilton (1994), Time Series Analysis, Princeton.</li> <li>• Uwe Hassler (2016), Stochastic Processes and Calculus: an elementary introduction with applications, Springer.</li> </ul>
<b>Expected number of students in class</b>	20
<b>Contact Information</b>	Mehdi Hosseinkouchack, Dr.; email: <a href="mailto:hosseinkouchack@wiwi.uni-frankfurt.de">hosseinkouchack@wiwi.uni-frankfurt.de</a>

<b>Module number and title</b>	<b>E5078 Global Health</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Esther Heesemann
<b>Cycle of offer</b>	Irregular
<b>ECTS credits</b>	7
<b>Teaching method (hours per week)</b>	Lecture (2) + exercise (1)
<b>Workload</b>	210 working hours, containing 31.5 hours class time and 178.5 hours independent study time and preparation for the exam.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	tba
<b>Goals and contents of the module</b>	tba
<b>Expected competences acquired after completion of the module</b>	tba

<b>Further information</b>	tba
<b>Expected number of students in class</b>	15
<b>Contact Information</b>	Esther Heesemann

## Elective Modules: Seminars

<b>Module number and title</b>	<b>E585 Topics in Multiple Time Series Analysis</b>
<b>Form and usability of the module</b>	Elective Course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Carsten Trenkler
<b>Cycle of offer</b>	Irregular
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Seminar (2)
<b>Workload</b>	150 working hours, containing 21 hours class time and 129 hours independent study time for preparation of presentations and seminar paper.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent); good knowledge in time series analysis
<b>Grading and ECTS credits</b>	Seminar paper (75%) and two presentations (25%).
<b>Goals and contents of the module</b>	In this seminar students work on applied or methodological projects related to multiple time series analysis. Thereby, they can extend and broaden their background acquired during the lectures on multiple time series analysis and empirical macroeconomics. The potential topics refer e.g. to VARMA models, structural VARs, Bayesian VARs and factor models. It is expected that students independently acquire the necessary knowledge regarding the relevant model classes, methods and/or implementations. The maximum number of participants in the seminar is limited to 14. The enrolment takes place between July 30 and August 3. Further details on the enrolment, the seminar and the topics will be posted on the seminar's webpage in due time.
<b>Expected competences acquired after completion of the module</b>	
<b>Further information</b>	
<b>Expected number of students in class</b>	10
<b>Contact Information</b>	Prof. Dr. Carsten Trenkler; Phone:181-1852; email: trenkler<at>uni-mannheim.de; Office: L7, 3-5, Raum 105

<b>Module number and title</b>	<b>E599 Empirical Environmental Economics</b>
<b>Form and usability of the module</b>	Elective course for M. Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Ulrich Wagner, PhD
<b>Cycle of offer</b>	Once
<b>ECTS-Credits</b>	5
<b>Teaching method (hours per week)</b>	Block seminar (2)

<b>Workload</b>	150 working hours for organizational meeting, block seminar, preparation of the seminar paper and presentation
<b>Course language</b>	English
<b>Prerequisites</b>	E601- E603 (or equivalent)
<b>Grading and ECTS credits</b>	Presentation (40%), report (40%), class room discussion (20%)
<b>Goals and Contents of the module</b>	This seminar covers recent empirical research in environmental economics. The reading list for the class will focus on a particular research topic in environmental economics, such as climate policy or air pollution control. Each student will present a paper chosen from the list to the class and write a report critiquing the paper. Emphasis will be on identifying the central questions addressed in the paper, evaluating the methodology and data, and making suggestions for improvements and extensions.
<b>Expected Competences acquired after completion of the module</b>	Ability to present academic research to semi-expert audience Ability to critically reflect on academic research, and to articulate criticism and suggestions for improvement.
<b>Further information</b>	
<b>Expected number of students in class</b>	10
<b>Contact information</b>	Prof. Ulrich Wagner, PhD; Phone. (0621) 181 - 1420; email: ulrich.wagner@uni-mannheim.de; Office:L7, 3-5, room 211 , Office hours: Thursdays, 2-3pm

<b>Module number and title</b>	<b>E5002 History of Modern Economics</b>
<b>Form and usability of the module</b>	Elective module for M. Sc. Economics
<b>Responsible teacher of the module</b>	Dr. Andrej Svorenčik
<b>Cycle of offer</b>	Irregular
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Block seminar (2)
<b>Workload</b>	150 hours working hours for organizational meeting, block seminar, preparation of the seminar paper and presentation
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent); for MMM and Business Mathematics students: good foundations in economic theory
<b>Grading and ECTS credits</b>	Presentation, seminar paper and class participation
<b>Goals and contents of the module</b>	Economics underwent several major transformations in the 20th century. Mathematical formalization, economic modeling, econometrics and economic experiments transformed it to such a degree that two economists century apart would have trouble to understand each other and practice economics in the same fashion. The aim of this seminar is to understand these transformations through the study of selected Nobel Prize-winning contributions to economics. The Nobel Memorial Prize in Economic Sciences has come to be associated with the most influential and path-breaking research in economics. Since its inception in 1969, over seventy scholars have been awarded it. The seminar consists of four introductory lectures: 1) brief history of

	economics until the early 20 <sup>th</sup> century; 2) how economics became a mathematical; 3) the econometric revolution; 4) the experimental turn in economics. Thereafter students choose one Nobel laureate for their research paper and presentation.
<b>Expected competences acquired after completion of the module</b>	In this seminar, students learn to comprehend, present, critically evaluate and historically situate the work of leading economists of the second half of the 20 <sup>th</sup> century. As a result, they should gain knowledge of history of modern economics and better understand the practice of modern economics.
<b>Expected number of students in class</b>	10
<b>Contact information</b>	Dr. Andrej Svorenčik; Phone: (0621) 181 - 3425; email: svorencik@uni-mannheim.de; Office L7, 3-5, R 4.06

<b>Module number and title</b>	<b>E5020 Topics in Empirical Microeconomics</b>
<b>Form and usability of the module</b>	Elective course for M. Sc. Economics
<b>Responsible teacher of the module</b>	Harim Kim, Ph.D.
<b>Cycle of offer</b>	once a year
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Block seminar (2)
<b>Workload</b>	150 working hours for organizational meeting, block seminar, preparation of the seminar paper and presentation.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	Presentation and paper
<b>Goals and contents of the module</b>	This course is intended for masters students interested in conducting research in empirical microeconomics. Students will be required to write a paper on a topic in the field and present it during the class.
<b>Expected competences acquired after completion of the module</b>	Students will be familiar with recent research in empirical IO and will be able to provide constructive criticism of work and gain skills in presenting.
<b>Further information</b>	Paper topics will be selected from current publications in empirical microeconomics
<b>Expected number of students in class</b>	15
<b>Contact information</b>	Harim Kim, Ph.D.; email: harimkim@uni-mannheim.de

<b>Module number and title</b>	<b>E5061 Firms in the Aggregate Economy</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics

<b>Responsible teacher</b>	Dr. Jan Schymik
<b>Cycle of offer</b>	Irregular
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Block Seminar (2)
<b>Workload</b>	150 hours working hours for organizational meeting, block seminar, preparation of the seminar paper and presentation.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	Term paper (60%) and presentation (40%)
<b>Goals and contents of the module</b>	The seminar covers topics around the implications of firms on aggregate economic activity. In particular, the seminar focuses on firm-level determinants of globalization, growth, inequality, and productivity.
<b>Expected competences acquired after completion of the module</b>	The students will acquire the ability to understand and critically evaluate academic articles in the field. They will improve their competencies in scientific writing and further their presentation skills by presenting an academic paper.
<b>Expected number of students in class</b>	20
<b>Contact information</b>	Dr. Jan Schymik; email: Jan.Schymik@lrz.uni-muenchen.de

<b>Module number and title</b>	<b>E5066 Experimental Public Choice</b>
<b>Form and usability of the module</b>	Elective module for M. Sc. in Economics
<b>Responsible teacher of the module</b>	Anna Merkel, Ph.D.
<b>Cycle of offer</b>	Irregular
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Blockseminar (2)
<b>Workload</b>	150 working hours for organizational meeting, block seminar, preparation of the seminar paper and presentation.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 (or equivalent)
<b>Grading and ECTS credits</b>	
<b>Goals and content of the module</b>	A large body of research in Behavioral Economics shows that people adhere to social norms, fairness concerns and ethical behavior, even in one-shot interactions. These behaviors have important consequences for the design of political institutions and voting outcomes. This course provides an introduction as to how experimental methods can be applied to study political decision-making. In particular, we will discuss models of strategic voting, preference aggregation and bargaining. Furthermore, we will discuss topics such as voter turnout, the influence of decision rules and the role of responsibility attribution.
<b>Expected competences acquired after completion of the module</b>	

<b>Further information</b>	
<b>Expected number of student in class</b>	15
<b>Contact information</b>	

<b>Module number and title</b>	<b>E5071 The Private Provision of Public Goods</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Duk Gyoo Kim
<b>Cycle of offer</b>	Each fall semester
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Blockseminar (2)
<b>Workload</b>	150 working hours, containing 21 hours class time and 129 hours independent study time
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 or equivalent.
<b>Grading and ECTS credits</b>	Term paper (50%) + presentation (40%) + class participation and discussion (10%)
<b>Goals and contents of the module</b>	The seminar will cover selected topics on the private provision of public goods. Free riders are everywhere, and more often than not free-riding behavior is well justified by economic theory. What is more interesting is that a large body of our society is built upon voluntary contributions of individuals, and functions well. How are charities operated? Why are Wikipedia contents so voluminous? How can open-source software be provided? When is government intervention/support to non-governmental organizations desirable? We will discuss such questions. Students are required to present one paper to discuss the paper's main contributions, reasoning, and weaknesses. Students are also required to write a report in the form of a research proposal or a survey paper. A reading list will be tailored at a later stage according to the demand for theoretical, lab experimental, and field experimental studies. We start from Bergstrom, Blume and Varian (1986), Andreoni (2006), and Anderson and Coate (2005) for theory, Palfrey and Prisbrey (1996) and Chen and Plott (1996) for lab experiments, and Karlan and List (2007) and DelaVigna, List, and Malmendier (2012) for field experiments.
<b>Expected competences acquired after completion of the module</b>	Students will learn to read and understand core ideas of the private contribution of public goods, and be able to apply their knowledge and understanding in new and unfamiliar situations connected to their study field in a broad and multidisciplinary way. Students will also learn various methodologies used in the current research of this area, including laboratory and field experiments. While writing a term paper and presenting their work, students will improve their economic writing and presentation skills, develop a way to express complex economic phenomena using their own words, and have chances to critically review the current studies and suggest their own ideas for future research.
<b>Expected number of students in class</b>	Maximum 15
<b>Contact Information</b>	Prof. Duk Gyoo Kim; Phone: (0621) 181-1797; email: d.kim@uni-mannheim.de; Office: L7, 3-5, room 2.25; Office Hours: by appointment



<b>Module number and title</b>	<b>E5072 Topics in Business Cycles</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Matthias Meier
<b>Cycle of offer</b>	Every fall semester
<b>ECTS credits</b>	5
<b>Teaching method (hours per week)</b>	Blockseminar (2)
<b>Workload</b>	150 working hours for organizational meeting, block seminar, preparation of the seminar paper, and presentation.
<b>Course language</b>	English
<b>Prerequisites</b>	E601-603 or equivalent
<b>Grading and ECTS credits</b>	Participation in discussions during the seminar (20%), presentation of one academic paper from the reading list (40%), and term paper (40%).
<b>Goals and contents of the module</b>	<p>The overarching theme of this block seminar is business cycles. The precise topic, however, changes on an annual basis. Last year's topic was the "Macroeconomics of Uncertainty Fluctuations". This year's topic will be "Inequality and Policy over the Business Cycle".</p> <p>The level and trend of inequality assumes a central role in the public, policy, and academic debate. Important aspects of this debate are the questions whether inequality fluctuates along the cycle and understanding the interactions with monetary and fiscal policy.</p> <p>This course reviews the recent literature on inequality and policy. The reading list covers the measurement of inequality, empirical evidence, as well as macroeconomic theory on the link between inequality and fiscal/monetary policy.</p> <p>Each student will present a paper chosen from the list to the class and write a report critiquing the paper. Emphasis will be on identifying the central questions addressed in the paper, evaluating the methodology and data, and making suggestions for improvements and extensions.</p>
<b>Expected competences acquired after completion of the module</b>	Students learn to read and understand current research in the area. In contrast to pure lecture-type classes students are highly active in developing the material. Students need to draw on material from previous courses in micro, macro and econometrics to sort the wealth of information and research. The writing of a term paper allows students to improve their economic writing skills, and to express complex economic phenomena in their own words. Students present their work in front of the entire course audience. This trains their presentation skills. In addition students need to critically review the material and suggest own ideas for future research. As a result of discussion by all seminar participants students learn to interact with each other and evaluate other students' work.
<b>Further information</b>	
<b>Expected number of students in class</b>	10
<b>Contact Information</b>	Prof. Dr. Matthias Meier; email: m.meier(at)uni-mannheim.de

<b>Module number and title</b>	<b>E5073 The Economics of Motivated Beliefs</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Thomas Tröger
<b>Cycle of offer</b>	Irregular
<b>ECTS-Credits</b>	5
<b>Teaching method (hours per week)</b>	Seminar (2)
<b>Workload</b>	150 working hours, containing 21 hours time in class and 129 hours independent study time and preparation for the seminar paper and presentation.
<b>Course language</b>	English
<b>Prerequisites</b>	E601- E603 (or equivalent). Not suitable for Business Mathematics students.
<b>Grading and ECTS credits</b>	Presentation (50%), paper report (35%), active participation in discussions (15%)
<b>Goals and Contents of the module</b>	The seminar will cover economic theories that describe various aspects of motivated beliefs and reasoning. An overview can be found here: Bénabou, Roland, and Jean Tirole. "Mindful economics: The production, consumption, and value of beliefs." <i>Journal of Economic Perspectives</i> 30.3 (2016): 141-64.
<b>Expected Competences acquired after completion of the module</b>	<ul style="list-style-type: none"> <li>• Presentation skills (oral and written)</li> <li>• Participation in scientific discourse</li> <li>• Absorption of recent research</li> <li>• Acquisition of a reading routine</li> </ul>
<b>Further info</b>	
<b>Expected number of students in class</b>	10
<b>Contact information</b>	Prof. Dr Thomas Tröger; phone: (0621) 181 - 3423; email: troeger@uni-mannheim.de; Office: L7, 3-5, room 347 , Office hours: by appointment

<b>Module number and title</b>	<b>E5074 Economics of Innovation and Intellectual Property</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Achim Wambach, Ph.D.
<b>Cycle of offer</b>	Irregular
<b>ECTS-Credits</b>	5
<b>Teaching method (hours per week)</b>	Blockseminar (2)
<b>Workload</b>	150 working hours for organizational meeting, blockseminar, preparation of the seminar paper and presentation
<b>Course language</b>	English
<b>Prerequisites</b>	E601- E603 (or equivalent)
<b>Grading and ECTS credits</b>	Seminar paper (50%) + presentation (50%).

<b>Goals and Contents of the module</b>	The seminar covers recent research on the economics of innovation and intellectual property, with a focus on empirical studies. The topics concern the determinants and consequences of technical change and how these interact with market structure and firm strategy. Seminar participants have to write a seminar paper (22,000 characters including spaces), in which they analyse a problem related to the economics of innovation. The paper has to be presented in class (20 minutes presentation + 10 minutes discussion).
<b>Expected Competences acquired after completion of the module</b>	Students have gained a broad understanding on the economics of innovation. They are able to apply their expertise and methods to analyse and evaluate issues of innovation and intellectual property. The students have broadened their analytical abilities as well as their presentation and discussion skills.
<b>Further info</b>	Additional teachers: Prof. Dr. Bettina Peters; Dr. Maikel Pellens
<b>Expected number of students in class</b>	10
<b>Contact information</b>	Dr. Maikel Pellens; email: maikel.pellens@zew.de

<b>Module number and title</b>	<b>E5077 Intergenerational Mobility and Inequality</b>
<b>Form and usability of the module</b>	Elective course for M.Sc. Economics
<b>Responsible teacher of the module</b>	Prof. Dr. Sebastian Findeisen
<b>Cycle of offer</b>	Irregular
<b>ECTS-Credits</b>	5
<b>Teaching method (hours per week)</b>	Blockseminar (2)
<b>Workload</b>	150 working hours for organizational meeting, blockseminar, preparation of the seminar paper and presentation
<b>Course language</b>	English
<b>Prerequisites</b>	E601- E603 (or equivalent)
<b>Grading and ECTS credits</b>	Term paper (50%), presentation (30%), discussion (20%)
<b>Goals and Contents of the module</b>	The rapid and unanticipated growth of earnings inequality in many developed economies in the last 30 years, most notably in the U.S., U.K. and also in Germany, has triggered controversial debates. This course deals with the evolution and causes of economic inequality. We start by reviewing the basic facts about the evolution of income and wage inequality in the EU and the US in the last decades. We then subsequently discuss the role of technology, education and institutions as determinants of inequality. We draw on many recent academic papers from the fields of Public Economics, Macroeconomics and Labor Economics.
<b>Expected Competences acquired after completion of the module</b>	Understanding of the key facts of intergenerational mobility and income inequality in developed economies. Understanding of the different mechanisms leading to inequality and intergenerational persistence. Formal understanding of theoretical and empirical approaches to study intergenerational mobility and inequality.
<b>Expected number of students in class</b>	10
<b>Contact information</b>	Prof. Dr. Sebastian Findeisen

## Additional Courses for Economists

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<b>Module number and title</b>	<b>E5051 Mannheim Competition Policy Forum</b>
<b>Form and usability of the module</b>	Compulsory course for Master in Economics with specialization Competition and Regulation Economics, elective course for Master in Economics with specialization Economics
<b>Responsible teacher of the module</b>	
<b>Cycle of offer</b>	Each semester
<b>ECTS credits</b>	
<b>Teaching method (hours per week)</b>	
<b>Workload</b>	
<b>Course language</b>	English
<b>Prerequisites</b>	E601- E603 (or equivalent; this course is only suitable for Economics students)
<b>Grading and ECTS credits</b>	
<b>Goals and Contents of the module</b>	<p>The last couple of years have seen a remarkable increase in the application of economic insights to competition problems. In order to further promote and refine this development, practitioners need to understand how microeconomics can help to shed light on particular aspects of competition problems. At the same time, academics benefit from a better understanding of real-world challenges and institutional details.</p> <p>The forum aims at providing a platform for the discussion of recent cases, general competition policy issues, and relevant academic research in the field. Renowned practitioners and academics will be invited to present their views on cases and general policy questions, followed by a discussion of the economic implications with the audience.</p> <p>Starting from the autumn semester 2017, the MCPF is an official part of two master's programmes at the University of Mannheim. Participation is compulsory for economics students in the competition and regulation track and for law students in the master on competition and regulation law.</p>
<b>Expected Competences acquired after completion of the module</b>	
<b>Further information</b>	
<b>Expected number of students in class</b>	
<b>Contact information</b>	

## Curriculum

The Economics Track			The Competition and Regulation Economics Track			The Economic Research Track			
Introductory Phase	Exam (min)	ECTS credits	Introductory Phase	Exam (min)	ECTS points	Introductory Phase	Exam (min)	ECTS points	
Advanced Microeconomics	120	10	Advanced Microeconomics	120	10	Mathematics for Economists	120	6	
Advanced Macroeconomics	120	10	Advanced Macroeconomics	120	10	Advanced Microeconomics	120	8	
Advanced Econometrics	120	10	Advanced Econometrics	120	10	Advanced Macroeconomics	120	8	
						Advanced Econometrics	120	8	
<b>Specialization Phase</b>			<b>Specialization Phase: <i>Compulsory Modules</i></b>			<b>Specialization Phase : <i>Compulsory Modules</i></b>			
Specialized master courses including 2-4 seminars		60-66	Industrial Organization - Markets and Strategies		14	Advanced Microeconomics II	120	5	
			Empirical Industrial Organization		7	Advanced Microeconomics III	120	5	
			Competition Law		5	Advanced Macroeconomics II	120	5	
			Interdisciplinary Competition and Regulation Seminar		5	Advanced Macroeconomics III	120	5	
						Advanced Econometrics II	120	5	
						Advanced Econometrics III	120	5	
			<b>Specialization Phase : <i>Elective Modules</i></b>			<b>Specialization Phase: <i>Elective Modules</i></b>			
			Specialized courses including 1-3 seminars			29 - 35	Specialized PhD courses and 1-2 seminars		40-46
			<b>Specialization Phase: <i>Research Seminars</i></b>			<b>Specialization Phase: <i>Research Seminars</i></b>			
							CDSE seminar in the 3rd and 4th semester		0
			Faculty seminar		0				
<b>Research Phase</b>			<b>Research Phase</b>			<b>Research Phase</b>			
Master's thesis (4 months), possibly including a thesis colloquium		30	Master's thesis (4 months), possibly including a thesis colloquium		30	Research thesis (11 weeks)		20	
<b>Total</b>		<b>120-126</b>	<b>Total</b>		<b>120-126</b>	<b>Total</b>		<b>120-126</b>	