

2. Course descriptions

Part IV

Specializations

Study Line B: „Policy and Markets “

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| Study Program | Master of Food and Resource Economics |
| Course | European and International Agricultural Policy |
| Code | B-3.1 |
| CP | 6 |
| Class | European and International Agricultural Policy |
| Code | B-3.1 |
| Semester | 3 |
| Coordinator | Prof. Dr. Thomas Heckelei |
| Instructor | Dr. Wolfgang Britz |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecturing/Exercise, 4 hours/week |
| Workload | Class 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | G-2.1 |
| Objectives/Competences | At the end of the course, students will be able to apply economic theory in analysing existing agricultural policies Students will learn the selection and application of relevant economic theories. They will also acquire a thorough understanding of the assumptions and limitations of theories by critically discussing the outcomes of different existing studies. |
| Content | Course structure on the next page |
| Type of Examination | Written exam |
| Literature | BAGWELL, K., STAIGER, R. (2002): The Economics of the World Trading System, Massachusetts. JOSLING, T.; ROBERTS, D., ORDEN, D. (2004): Food Regulation and Trade, Toward a Safe and open Global System, Institute for International Economics, Washington D.C. BURRELL, A., OSKAM, A. (2000): Agricultural Policy and Enlargement of the European Union, Wageningen. |

Objectives

At the end of the course, students will be able to apply economic theory in analysing existing agricultural policies.

Content

1. Theoretical Background for evaluating Agricultural Policies
 - Reference to Welfare Economics and Cost-Benefit Analysis
 - Reference to Institutional Economics
 - Reference to Public Choice
 - Reference to New Political Economics
2. Economic Analysis of the multinational framework for existing agricultural policies:
 - The WTO
 - Core Principles and different agreements
 - Dispute Settlement
3. Existing Agricultural Policies: Design and Analysis
 - Measuring Agricultural Protection
 - Policies of selected Key Players
 - The EU
 - The USA
 - Developing Countries
 - Others
4. Perspectives and Future Challenges
 - Enlargement of the EU
 - Ongoing WTO negotiations

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|------------------------------|---|
| Study Program | Master of Food and Resource Economics |
| Course | Public Choice in the Agri-Food Sector |
| Code | B-3.2 |
| CP | 6 |
| Class | Public Choice in the Agri-Food Sector |
| Code | B-3.2 |
| Semester | 2 |
| Coordinator | Prof. Dr. Thomas Heckelei |
| Instructor | Dr. Wolfgang Britz |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecturing/Exercise, 4 hours/week |
| Workload | Class 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | G-2.1 |
| Objectives/Competences | Students will be acquainted with major theories to explain political behaviour and will be capable of applying those to existing policies in the Agri-Food Sector. Students will learn to analyse existing actors and institutions in the agri-food system, policy processes and results by means of the theories. |
| IContent | Course structure on the next page |
| Type of Examination | Written exam |
| Literature | MUELLER, D. (2003): Public Choice III, Cambridge University Press. ROSEN, H. S. (2001): Public Finance, McGraw-Hill/Irwin. |

Objective

Students will be acquainted with major theories to explain political behaviour and capable of applying those to existing policies in the Agri-Food Sector.

Content

1. Introduction: Overview on different theoretical concepts for the analysis of political behaviour
2. Theories
 - 2.1 Neo-classical theories
 - 2.1.1 Democratic models
 - 2.1.2 Bureaucratic models
 - 2.1.3 Lobbyism models
 - 2.1.4 Constitutional and finance models
 - 2.2 Other theories (e.g. game theory, new geographical economics)
3. Analysing existing political markets and actors
 - 3.1 Agricultural and food policy at national level: German case study
 - 3.1.1 German actors
 - 3.1.2 German constitutional system and policy design
 - 3.2 Agricultural and food policy at European level
 - 3.2.2 European actors
 - 3.2.1 Analysis of decision-making procedure
 - 3.3 Agricultural and food policy at WTO level
 - 3.3.1 WTO actors
 - 3.3.2 Analysis of decision-making and dispute procedure

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|------------------------------|---|
| Study Program | Master of Food and Resource Economics |
| Course | Applied Trade Theory and Policy |
| Code | B-3.3 |
| CP | 6 |
| Class | Applied Trade Theory and Policy |
| Code | B-3.3 |
| Semester | 2 |
| Coordinator | Prof. Dr. Thomas Heckelei |
| Instructor | Dr. Christina Wieck |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecture/ Exercise, 4 hours/week |
| Workload | Class 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | G-2.1 |
| Objectives/Competences | <p>Students will gain an overview on classical and new economic theories of international trade explaining trade patterns between countries. Exercises and discussion of applications with emphasis in agricultural and food products will allow students to apply the theories and understand their limitations.</p> <p>Furthermore, students will gain knowledge on the institutional side of the international trading system and learn to assess the trade and welfare impacts of trade policies independently in the context of exercises.</p> |
| Content | Course structure on the next page |
| Type of Examination | Written exam. |
| Literature | <p>BAGWELL, K., STAIGER, R. (2002): The Economics of the World Trading System, Massachusetts.</p> <p>FEENSTRA (2004): Advanced International Trade- Theory and Evidence. Princeton.</p> <p>Just, R.E., D.L. Hueth, and A. Schmitz (2004): The welfare economics of public policy: a practical approach to project and policy evaluation. Edward Elgar.</p> |

Objective

Students will gain an overview on classical and new economic theories of international trade explaining trade patterns between countries. Exercises and discussion of applications with emphasis in agricultural and food products will allow students to apply the theories and understand their limitations.

Content

1. Overview
2. Why do we observe trade?
 - 2.1 Technological differences (Ricardian model)
 - 2.2 Differences in factor endowments (Heckscher-Ohlin Model)
 - 2.3 Increasing returns to scale
3. Who gains and who loses from trade?
 - 3.1 Gains from trade: the country perspective
 - 3.2 Gains from trade: the “within country” or agent perspective
 - 3.3 Deviations from the perfect market assumption
4. What are the trade and welfare impacts of specific policies?
 - 3.1 Import tariffs
 - 3.2 Import quotas
 - 3.3 Export subsidies
 - 3.4 Non-Tariff measures
5. What are the gains of trade agreements?
 - 3.1 Multilateral trade agreements (WTO)
 - 3.2 Regional trade agreements
 - 3.3 Regional versus multilateral agreements
6. How do multinational firms affect trade and analysis of trade?

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|--------------------------|--|
| Study Program | Master of Food and Resource Economics |
| Course | Development Economics |
| Code | B-3.4 |
| CP | 6 |
| Objectives/Competences | The aim of the aggregated module “development economics” is to give an overview about (i) theoretical basics and their practical relevance for developing countries, (ii) concepts of underdevelopment and poverty as well as (iii) different development strategies and policies. Furthermore, theoretical approaches and their implementation into a practical development strategy will be critically assessed, and quantitative economic techniques will be learned to be able to assess policies. |
| Code of instruction unit | B-3.4.1 und B-3.4.2 |
| Coordinator | Prof. Dr. J. von Braun |
| Further information | See instruction unit |

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|------------------------------|--|
| Study Program | Master of Food and Resource Economics |
| Course | Development Economics |
| Code | B-3.4 |
| CP | 6 |
| Class | Theory of Development Economics |
| Code | B-3.4.1 |
| Semester | 2 |
| Coordinator | Prof. Dr. J. von Braun |
| Lecturer | PD Dr. Peter Wehrheim |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecture/Exercise 3 hours/week |
| Workload | Class: 30 h Own studies: 60 h |
| CP | 3 |
| Recommended Requirements | |
| Objectives/Competences | The lectures (including exercises) aim at giving an overview about essential theories of economic development and showing their practical relevance for developing countries. A special emphasis will be put on case-studies giving students the chance to improve their ability to critically assess theoretical approaches and to assess and discuss them in the context of a practical development strategy and policy. |
| Content | Critical assessment of different theoretical approaches related to economic development (e.g. theories of growth, new institutional economics) and their relevance for practical development policy. For a more detailed table of contents, see next page. |
| Type of Examination | Written exam |
| Literature | <p>Todaro, M.P. and S. Smith, Economic development, Boston: Addison-Wesley, 10ed. ISBN: 0-321-48573-4</p> <p>Vinod Thomas et al. The Quality of Growth, Oxford University Press, Washington, 2000.</p> |

Objective

The lectures (including exercises) aim at giving an overview about essential theories of economic development and showing their practical relevance for developing countries. A special emphasis will be put on case-studies giving students the chance to improve their ability to critically assess theoretical approaches and to assess and discuss them in the context of a practical development strategy and policy

Content

1. Economic Development: Definitions and measurement concepts
2. Partial theories of economic development
 - Historical School, The Stages of Economic Growth (*Rostow*)
 - Theory of structural change and Two sector models (*Lewis*)
 - Model of dependence
3. Complex theories of economic development
 - Neoclassical growth theory
 - Endogeneous growth theory: the role of social capital and new knowledge for the growth process (*Romer*)
 - New institutional economics: the value- and rules based system of a society as an explanatory factor for economic development (*Williamson, North*)
 - Political-economic explanatory approaches: The role of the state and the role of interest groups in the development process
 - From economic growth to the quality of growth: what does sustainable economic development mean from a theoretical point of view? What are the implications of this concept for policy design?
4. From theory to its practical use; case studies:
 - What were the recommendations of the World Bank for stimulating economic development? Review of the World Bank's annual World Development Reports between 1994 – 2010
 - Course reading: Vinod Thomas et al. The Quality of Growth, Oxford University Press, Washington, 2000.
 - To which extent are "rural development policies" in different countries responsive to theoretical findings (EU, OECD, developing countries)?

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|------------------------------|--|
| Study Program | Master of Food and Resource Economics |
| Course | Development Economics |
| Code | B-3.4 |
| CP | 6 |
| Class | Development Policy and Analysis |
| Code | B-3.4.2 |
| Semester | 1/3 |
| Coordinator | Prof. Dr. J. von Braun |
| Lecturer | N. N. |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecture/Exercise 3 hours/week |
| Workload | Class: 30 h Own studies: 60h |
| CP | 3 |
| Recommended Requirements | |
| Objectives/Competences | Students will become familiar with the complex and multidimensional concepts of underdevelopment and poverty as well as related topics in international development. They will learn to understand different development policies and evaluate them using a variety of quantitative economic techniques. |
| Content | Analysis of quantitative methods and their application to practical development policy. For a more detailed table of contents, see next page. |
| Type of Examination | Written exam |
| Literature | Sadoulet, E., and A. de Janvry. <i>Quantitative Development Policy Analysis</i> . Baltimore: Johns Hopkins University Press, 1995. Todaro, M., and S. Smith. <i>Economic Development</i> . Eighth Edition. Boston: Addison-Wesley, 2003. |

Course Objectives

Students will become familiar with the complex and multidimensional concepts of underdevelopment and poverty and related topics in international development. They will learn to analyze different development strategies and evaluate related policies. Quantitative methods for poverty mapping, demand and supply analysis, price policy analysis, adoption and impact assessments, and institutional studies will be explained within empirical examples.

Course Overview

1. Introduction
2. Quantitative Analysis of Development Policy, Millennium Development Goals
3. Poverty and Inequality
4. Poverty-Inequality-Growth Interrelations
5. Household Models
6. Impact Analysis of Development Projects
7. Sources of Market Failures
8. Population and Development
9. Migration
10. Price Distortions
11. Transaction Cost Analysis and Agrarian Institutions
12. Sustainability and Trade

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| Studiengang | Master of Food and Resource Economics |
| Modulbezeichnung | Marketing |
| Kürzel | B-3.5 |

Identically equal to Course A-3.9 Page 75

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|-------------------------|---|
| Studiengang | Master of Food and Resource Economics |
| Modulbezeichnung | Industrieökonomische Analyse des Ernährungssektors |
| Kürzel | B-3.6 |

Identically equal to Course A-3.8 Page 72

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|------------------------------|--|
| Study Program | Master of Food and Resource Economics |
| Course | Advanced Methods of Market Research |
| Code | B.3-7 |
| CP | 6 |
| Class | Advanced Methods of Market Research |
| Code | B.3-7 |
| Semester | 2 |
| Coordinator | Dr. C. Grebitus |
| Lecturer | Dr. C. Grebitus |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecture: 2 hours/week; tutorial 2 hours/week |
| Workload | Class 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | G-1.2 |
| Objectives/Competences | Ability to make use of quantitative scientific studies for decision making. Ability to conduct independently quantitative analyses. Computer skills, presentation competence, capacity for teamwork. |
| Content | See next page |
| Type of Examination | Written exam |
| Literature | <p>Böhler H. (2004): <i>Marktforschung</i>. 3rd ed. Kohlhammer Edition Marketing. Stuttgart.</p> <p>Backhaus K. et al. (2000): <i>Multivariate Analysemethoden – Eine anwendungsorientierte Einführung</i>. 9th ed. Springer Verlag. Berlin.</p> <p>Churchill, G.A., Jr. and D. Iacobucci (2002). <i>Marketing Research – Methodological Foundations</i>. 8th Edition. Harcourt College Publishers.</p> <p>Hair J.F. et al. (2001): <i>Marketing Research Within a Changing Information Environment</i>. 2nd Edition. McGraw-Hill International Editions. Boston.</p> <p>Hair J.F. et al. (1998): <i>Multivariate Data Analysis</i>. 5th Edition. Prentice-Hall International, Inc. Upper Saddle River.</p> <p>Lusk, J. and J. Shogren (2007): <i>Experimental Auctions</i>. Cambridge University Press.</p> <p>Mario Mazzocchi (2008): <i>Statistics for Marketing and Consumer Research</i>. Sage Publications Ltd.</p> <p>Friedman, D. and Sunder S., 1994, <i>Experimental Methods: A Primer for Economists</i>, Cambridge University Press.</p> <p>Davis, D. and Holt, C., 1993, <i>Experimental Economics</i>, Princeton University Press.</p> <p>Kagel, J. and Roth, A., 1995, <i>The Handbook on Experimental Economics</i>, Princeton University Press.</p> <p>Bleymüller J. et al. (2002): <i>Statistik für Wirtschaftswissenschaftler</i>. 13th ed. Verlag Vahlen. München.</p> |

The objective of this course is to provide an overview over advanced market research methods. In particular, multivariate methods of market research and methods from experimental economics will be presented. Students should acquire an understanding of these methods and be able to use them adequately. One focus of the course is on applying the learned methods to case datasets using SPSS.

Lecture contents

1. Introduction
2. Statistical basics
3. Multivariate analysis methods
 - a. Cluster analysis
 - b. Factor analysis
 - c. Multidimensional scaling
 - d. Conjoint analysis
4. Experimental economics
 - a. Lotteries
 - b. Auctions
 - c. Choice experiments

Tutorial contents

1. Applied statistical data analysis with SPSS
2. Group assignment: students conduct a small consumer survey to collect data, analyze data and present results.

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| Study Program | Master of Food and Resource Economics |
| Course | Environmental and Resource Economics |
| Code | B-3.8 |
| CP | 6 |
| Class | Environmental and Resource Economics |
| Code | B-3.8 |
| Semester | 2 |
| Coordinator | Prof. K. Holm-Mueller |
| Lecturer | Prof. K. Holm-Mueller |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecture with integrated student activities, 4 hours/week |
| Workload | Class: 60 h Own studies: 120 h |
| CP | 6 |
| Recommended Requirements | |
| Objectives/Competences | Students get a deeper insight into economic approaches to environmental problems. They will understand first formal approaches to the problems and be able to transfer their knowledge from textbook to new problems. They will acquire the capability to read journal articles and discuss the content with other students |
| Content | The course starts with a discussion of different ethical consideration to inter- and intragenerational allocation. A discussion of different sustainability criterion follows before we look into neoclassical concepts and methods of monetary evaluation in more detail. A short introduction into the concept of economy-wide modelling will complete the course. |
| Type of Examination | Written exam |
| Literature | Perman et al. (2005): Natural Resource and Environmental Economics, Pearson Education, Harlow. |

Objective

Students get a deeper insight into economic approaches to environmental evaluation. They will be able to transfer their knowledge from textbook to new problems. They will acquire the capability to read journal articles and discuss the content with other students

Content

1. Ethics and Environmental protection
2. Sustainability problems;
3. Cost-Benefit analysis, cost-effectiveness-analysis and multi-criteria-analysis
4. theoretical concepts for monetary evaluation of the environment
5. methods for monetary evaluation (direct and indirect methods)
6. Existence and option value
7. benefit transfer

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| Study Program | Master of Food and Resource Economics |
| Course | Seminar Policy Analysis |
| Code | B-3.9 |
| CP | 6 |
| Class | Seminar Policy Analysis |
| Code | B-3.9 |
| Semester | 3 |
| Coordinator | Prof. Dr. Thomas Heckelei |
| Instructor | Prof. Dr. Thomas Heckelei, Dr. Wolfgang Britz |
| Language | German/English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Interactive sessions with student presentation and discussion in the plenum, 4 hours/week |
| Workload | Class 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | B-3.1 , B-3.3. |
| Objectives/Competences | Students learn to apply the relevant theories to topical issues. They acquire knowledge and practice research techniques such as structuring research papers, literature search and referencing, and technical writing. Furthermore, they will gain hands-on experience in presentation of scientific results and the moderation of a discussion. |
| IContent | Analysis of current agricultural and food policies Course structure on the next page |
| Type of Examination | Paper and Presentation |
| Literature | Selection of background articles depending on the specific topic of the seminar paper |

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| Code B- 3.9 | Seminar Policy Analysis |
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Objective

Students learn to apply the relevant theories to topical issues. They acquire knowledge and practice research techniques such as structuring research papers, literature search and referencing, and technical writing. Furthermore, they will gain hands-on experience in presentation of scientific results and the moderation of a discussion.

Content

Topical issues on agricultural policy at European and international level will be analysed by written theses.

The selection of issues depends on currently relevant developments like WTO-negotiations, WTO-disputes or national and European policy reforms.

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| Studiengang | Master of Food and Resource Economics |
| Modulbezeichnung | Seminar Marktanalyse |
| Kürzel | B-3.10 |
| Leistungspunkte | 6 |
| Untertitel/Lehrveranstaltung | Seminar Marktanalyse |
| Kürzel | B-3.10 |
| Semester | 2 |
| Modulverantwortlicher | Prof. Dr. Monika Hartmann |
| Dozent | Prof. Dr. Monika Hartmann |
| Sprache | Deutsch |
| Zuordnung zum Curriculum | Wahlpflichtbereich –Studienabschnitt 3: Schwerpunkt: „Politik und Märkte“ |
| Lehrform / SWS | Seminar 2 SWS |
| Arbeitsaufwand (in Std.) | Präsenzstudium 30 Eigenstudium 150 |
| Leistungspunkte | 6 |
| Empfohlene Voraussetzungen | B-3.6 |
| Lernziele/Kompetenzen | Die Studierenden erwerben Fachkenntnisse über das Schwerpunktthema des Seminars. Darüber hinaus lernen sie die in den Vorlesungen vermittelten Kenntnisse unter Hinzuziehung weiterer Literatur selbständig anzuwenden, ihre Ergebnisse wissenschaftlich korrekt darzulegen und mündlich zu präsentieren. Zudem werden sie die Fähigkeit vertiefen, konstruktiv an Sachthemen zu diskutieren. Damit werden im Rahmen des Seminars neben Fachkenntnissen, Kompetenzen in den Bereichen Recherchieren, Literatúrauswahl, Präsentation, Diskussion und Kommunikation erworben. |
| Inhalt | Siehe Gliederung, nächste Seite |
| Studien- Prüfungsleistungen | Seminararbeit, Referat |
| Literatur | Die Literatur hängt von der jeweiligen Themenstellung des Seminars ab. Die Studierenden erhalten einige zentrale Literaturhinweise zu ihrem jeweiligen Thema. Darüber hinaus wird von den Studierenden eine eigene Literaturrecherche erwartet. |

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| Modul Nr. | B-3.10 | Seminar Marktanalyse |
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Im Rahmen des Seminars werden Themen aus dem Bereich „Marktlehre der Agrar- und Ernährungswirtschaft“ auf Grundlage der im Studium vermittelten theoretischen und methodischen Kenntnisse sowie der relevanten Literatur selbständig, systematisch und problemorientiert analysiert. Die Studierenden erhalten die Gelegenheit, unter Anleitung eine Seminararbeit anzufertigen, diese im Seminar vorzutragen und zur Diskussion zu stellen.

Inhalt:

Berücksichtigung aktueller Fragestellungen zu den Themenbereichen

- 1 Wettbewerbsfähigkeit der Ernährungswirtschaft
- 2 Effizienz der Vermarktungskette
- 3 Einfluss der Politik auf die Lebensmittelmärkte
- 4 Bedeutung von Lebensmittelqualität und Lebensmittelsicherheit
- 5 Kommunikation von Erkenntnissen der Ernährungsforschung
- 6 Weltagrarhandel und WTO

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| Studiengang | Master of Food and Resource Economics |
| Modulbezeichnung | Seminar Marketing |
| Kürzel | B-3.11 |

Identically equal to Course A-3.12 Page 84

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|------------------------------|---|
| Study Program | Master of Food and Resource Economics |
| Course | Seminar on Environmental Economics |
| Code | B-3.12 |
| CP | 6 |
| Class | Seminar on Environmental Economics |
| Code | B-3.12 |
| Semester | 3 |
| Coordinator | Prof. Dr. K. Holm-Mueller |
| Lecturer | Prof. Dr. K. Holm-Mueller |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Seminar, 2 hours week + additional sessions on demand |
| Workload | Class 40 h Own studies 140 h |
| CP | 6 |
| Recommended Requirements | |
| Objectives/Competences | Students will gain a deeper insight into current research on environmental and resource economic topics. Students will also learn to do work on a well defined subject on their own, review literature, write up results in a concise way and give a presentation before the group. |
| Content | Current economic research on environmental and resource topics |
| Type of Examination | Seminar paper and oral presentation |
| Literature | Introductory literature will be distributed, has to be completed by students |

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| Code B-3.12 | Seminar on Environmental Economics |
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Objective

This course will help students get a deeper insight into current research on environmental and resource economic topics. The seminar topics will be changed from year to year accordingly.

Content

Current economic research on environmental and resource topics.

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| Study Program | Master of Food and Resource Economics |
| Course | Advanced Applied Econometrics |
| Code | B-3.13 |
| CP | 6 |
| Class | Advanced Applied Econometrics |
| Code | B-3.13 |
| Semester | 2 |
| Coordinator | Prof. Dr. Thomas Heckelei |
| Instructor | Prof. Dr. Thomas Heckelei |
| Language | English |
| Course relevance | Compulsory optional subject - Term 3: Study Line B "Policy and Markets": Core Courses |
| Teaching concept: hours/week | Lecture/ Exercise, 4 hours/week |
| Workload | Class 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | G-2.1 |
| Objectives/Competences | Students will acquire competence in selecting and applying econometric methods to estimate quantitative economic models derived from economic theory. In addition they will learn to use and interpret outputs from econometric software packages. |
| Content | Course structure on the next page |
| Type of Examination | Written exam. |
| Literature | <p>PINDYCK, R.S. und D.L. RUBINFELD. (1997): Econometric Models & Economic Forecasts, 4th edition, MacGraw-Hill, New York.</p> <p>GREEN, W.H. (2002): Econometric Analysis. 5th, edition, Prentice Hall.</p> <p>KENNEDY, P. (1998): A Guide to Econometrics. 4th edition, TJ International, UK.</p> <p>MITTELHAMMER, R.C, JUDGE, G.G. and D.J Miller (2000): Econometric FOUNDATIONS. Cambridge University Press, New York.</p> <p>VERBEEK, M. (2000): A Guide to Modern Econometrics. Wiley, New York.</p> |

Objective

Students will acquire competence in selecting and applying econometric methods to estimate quantitative economic models derived from economic theory. In addition they will learn to use and interpret outputs from econometric software packages.

Content

1. Review General Linear Model and OLS
2. Model specification (functional form and variable choice)
3. Generalized Least Squares (Autocorrelation and Heteroskedasticity)
4. Seemingly Unrelated Regression
5. Estimating systems of equations
6. Panel data analysis
7. Limited dependent variable models
8. Using prior information in estimation

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| Studiengang | Master of Food and Resource Economics |
| Modulbezeichnung | Agrar- und Agrarumweltrecht |
| Kürzel | B-3.14 |
| Leistungspunkte | 6 |
| Untertitel/Lehrveranstaltung | Agrar- und Agrarumweltrecht |
| Kürzel | B-3.14 |
| Semester | 1/3 |
| Modulverantwortlicher | |
| Dozent | Dr. Dieter Schweizer |
| Sprache | deutsch |
| Zuordnung zum Curriculum | Wahlpflichtbereich –Studienabschnitt 3: Schwerpunkt: „Politik und Märkte“ |
| Lehrform / SWS | Vorlesung 2 SWS (wird auf doppelten Umfang erweitert) |
| Arbeitsaufwand (in Std.) | |
| Leistungspunkte | 6 |
| Empfohlene Voraussetzungen | |
| Lernziele/Kompetenzen | Die Studenten sollen einen Überblick über die Rechtsordnung in Deutschland und die europa- sowie bundes- und landesrechtlichen Grundlagen des Agrar- und Agrarumweltrechts bekommen. Damit erhalten sie eine Möglichkeit, das rechtliche Umfeld der Primärproduktion von Lebensmitteln in Grundzügen einschätzen zu können. |
| Inhalt | Siehe nächste Seite |
| Studien- Prüfungsleistungen | Klausur |
| Literatur | <ul style="list-style-type: none"> - Härte, I., „Handbuch europäische Rechtsetzung“, Göttingen 2005 - Norer. R. „Lebendiges Agrarrecht – Entwicklung und Perspektiven des Rechts im ländlichen Raum, Wien, 2005, - Ausgewählte Artikel aus „Agrar- und Umweltrecht“, - Diverse Rechtstexte |

Ziel

Die Veranstaltung soll den Studenten einen Gesamtüberblick über die Rechtsordnung der Bundesrepublik Deutschland und die europa- sowie bundes- und landesrechtlichen Grundlagen des Agrar- und Agrarumweltrechts vermitteln.

Inhalt

1. Agrar- und Agrarumweltrecht im System der Rechtsordnung
2. Agrarrecht
 - 2.1 Gewährleistung und Schutz des landwirtschaftlichen Grundeigentums
 - 2.2 Bürgerliches Recht
 - 2.3 Handels- und Gesellschaftsrecht
 - 2.4 Recht der Agrarstrukturverbesserung
 - 2.5 Agrarförderungsrecht
3. Agrarumweltrecht
 - 3.1 Allgemeines Agrarumweltrecht
 - 3.1.1 Umweltverfassungsrecht
 - 3.1.2 Umweltschutz als Staatsziel
 - 3.1.3 Verfassungsrechtliche Schranken des Umweltschutzes
 - 3.1.4 Umweltverwaltungsrecht im Überblick
 - 3.1.5 Umweltprivatrecht, insbesondere Umwelthaftungsrecht
 - 3.1.6 Umweltstrafrecht
 - 3.2 Besonderes Agrarumweltrecht
 - 3.2.1 Naturschutz- und Landschaftspflegerecht
 - 3.2.2 Immissionsschutzrecht
 - 3.2.3 Bodenschutzrecht
 - 3.2.4 Gewässerschutzrecht
 - 3.2.5 Abwasserabgabenrecht
 - 3.2.6 Kreislaufwirtschaftsgesetz, insbesondere Klärschlammverordnung und Kompostverordnung
 - 3.2.7 Düngemittelgesetz, insbesondere Düngeverordnung
 - 3.2.8 Pflanzenschutzrecht

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|------------------------------|--|
| Study Program | Master of Food and Resource Economics |
| Course | Policy and Markets |
| Code | B-4.1 |
| CP | 6 |
| Class | Policy and Markets |
| Code | B-4.1 |
| Semester | 3 |
| Coordinator | Prof. Dr. Monika Hartmann |
| Instructor | Prof. Dr. Monika Hartmann, Prof. Dr. Thomas Heckelei, Prof. Dr. Karin Holm-Müller |
| Language | English |
| Course relevance | Compulsory optional subject - Term 4 Study Line B: "Policy and Markets": Advanced Courses and Seminars |
| Teaching concept: hours/week | Interactive units for planning, organisation and presentation of results of project work, 2 hours/week. Rest of time in self organized team-work |
| Workload | Class 30 h Own studies 150 h |
| CP | 6 |
| Recommended Requirements | G-1 , G-2.- G-2.4 |
| Objectives/Competences | The students will learn to organize themselves in the group and elaborate jointly a presentable research project. |
| Content | Course structure on next page |
| Type of Examination | Project contribution and presentation |
| Literature | Introductory literature to the chosen topic will be provided. Subsequent literature search is task of the students |

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|-------------|---------------------------|
| Code B- 4.1 | Policy and Markets |
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Objective

The students will learn to organize themselves in the group and elaborate jointly a presentable research project.

Content

Current topics and corresponding research questions in the area of “Policy and Markets” will be selected to be researched by the students in a joint project. The goal oriented organization and the preparation of a joint project output (e.g. book or CD) is in the centre of attention.

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|------------------------------|---|
| Study Program | Master of Food and Resource Economics |
| Course | Simulation Models for Policy Analysis |
| Code | B-4.2 |
| CP | 6 |
| Class | Simulation Models for Policy Analysis |
| Code | B-4.2 |
| Semester | 3 |
| Coordinator | Prof. Dr. Thomas Heckelei |
| Instructor | Dr. Wolfgang Britz |
| Language | English |
| Course relevance | Compulsory optional subject - Term 4 Study Line B: "Policy and Markets": Advanced Courses and Seminars |
| Teaching concept: hours/week | Lecture/ Exercise, 4 hours/week |
| Workload | Class 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | |
| Objectives/Competences | With the completion of this course, the students have acquired advanced competence in the concepts, mathematical formulation and interpretation of theory-based partial equilibrium models for policy analysis. Furthermore, they have been introduced to the General Algebraic Modelling System (GAMS) and are capable of independently programming economic simulation models in this modelling language. |
| IContent | Course structure on the next page |
| Type of Examination | Written exam |
| Literature | Own Material |

Objective

With the completion of this course, the students have acquired advanced competence in the concepts, mathematical formulation and interpretation of theory-based partial equilibrium models for policy analysis. Furthermore, they have been introduced to the General Algebraic Modelling System (GAMS) and are capable of independently programming economic simulation models in this modelling language.

Content

1. Introduction to GAMS, motivation for the language, a first example model (transport cost minimisation)
2. Review of linear programming based on the example of transport cost minimisation, Kuhn-Tucker conditions, dual solution in GAMS
3. The supply part of a Spatial Programming Model, critical assessment of using LPs in aggregate programming models, adding the supply side to the GAMS code
4. Motivation and theory of Positive Mathematical Programming, integration in the code
5. Simulation exercises with the supply side of the model, sensitivity analysis
6. Structure of a Multi-Commodity Model, implementation in GAMS
7. The Armington approach, implementation in GAMS, calibration
8. Simulation exercises with a Spatial Multi-Commodity Model
9. Welfare analysis with a Multi-Commodity model
10. Using a model chain: iteratively linking supply and market model
11. The CAPRI modelling system: example of a model chain

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| Study Program | Master of Food and Resource Economics |
| Course | Marketing and Market Analysis |
| Code | B-4.3, 6CP |

Identically equal to Course A-4.5 on page 97

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|------------------------------|---|
| Study Program | Master of Food and Resource Economics |
| Course | Advanced Environmental Economics |
| Code | B-4.4 |
| CP | 6 |
| Class | Advanced Environmental Economics |
| Code | B-4.4 |
| Semester | 3 |
| Coordinator | Prof. Dr. K. Holm-Mueller |
| Lecturer | Prof. Dr. K. Holm-Mueller |
| Language | English |
| Course relevance | Compulsory optional subject - Term 4 Study Line B: "Policy and Markets": Advanced Courses and Seminars |
| Teaching concept: hours/week | Lecture with integrated student activities, 4 hours /eek |
| Workload | Class: 60 h Own studies 120 h |
| CP | 6 |
| Recommended Requirements | |
| Objectives/ Competences | This course uses the subject of "biodiversity conservation" for an in-depth analysis of theoretical concepts and tools for applied research and thus prepares for the MSc thesis. Students should acquire advanced knowledge in the field of biodiversity conservation and on more sophisticated theoretical concepts and research tools. Doing assignments and participating in class discussions will enable them to apply theories on specific problems and cases and to design research questions and approaches using theoretical concepts |
| Content | 1. dynamic optimisation (optimal control theory), Literature discussion of different policy instruments to protect biodiversity (The CBD and Access- and Benefit-sharing, direct payments for environmental services, Labelling), 2. the economics of international agreements (game theory) |
| Type of Examination | Oral exam |
| Literature | Perman et al. (2005): Natural Resource and Environmental Economics, Pearson Education, Harlow; Scott Barrett, Environment and Statecraft, Oxford University press, 2005, and selected material. |

Objective

This course uses the subject of “biodiversity conservation” for an in-depth analysis of theoretical concepts and tools for applied research and thus prepares for the MSc thesis.

Content

1. dynamic optimisation (optimal control theory), Literature discussion of different policy instruments to protect biodiversity (The CBD and Access- and Benefit-sharing, direct payments for environmental services, Labelling),
2. the economics of international agreements (different game theoretical approaches)

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|------------------------------|---|
| Study Program | Master of Food and Resource Economics |
| Course | Colloquium |
| Code | B-4.10 |
| CP | 6 |
| Class | Colloquium |
| Code | B-4.10 |
| Semester | 3 or 4 |
| Coordinator | Prof. Dr. Monika Hartmann |
| Lecturer | Prof. Dr. Thomas Heckeley, Prof. Dr. Monika Hartmann, Prof. Dr. Karin Holm-Müller |
| Language | English |
| Course relevance | Compulsory optional subject - Term 4: Study Line B "Policy and Markets": Advanced Courses and Seminars |
| Teaching concept: hours/week | Colloquium, 2 hours/week |
| Workload | Class: 30 h Own studies: 150 h |
| CP | 6 |
| Recommended Requirements | Semester 1-2 |
| Objectives/Competences | Participants are able to analyse the state of the art in defined areas of research, to identify open research questions and to formulate a framework for future research. They know how to present the findings and to defend their analysis in scientific discussions. |
| IContent | Literature studies, preparation of a scientific report, presentation of results, scientific discussion. |
| Type of Examination | Written report, presentation in class |
| Literature | Most relevant and up-to-date journal articles and publications according to students literature review |