Module Handbook
Doctoral Program in Economics

Faculty of Economics and Social Sciences
School of Business and Economics
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B454 Current Topics in International Business Taxation

ECTS-Credits 6
Workload Hours Contact Hours: 30 Independent Study: 150
Duration 1 Semester
Cycle generally: SS
Language English
Course Type Colloquium (2 SWS)
Method of Assessment Written Exam (240 minutes), 2 Presentations
Prerequisite for ---
Prerequisites ---
Limited Attendance 20
Person Responsible Prof. Dr. Martin Ruf
Lecturer Prof. Dr. Martin Ruf

This course can be taken as part of the following programs/modules:

| Doctoral Program | Business Studies, Economics, Finance |

Content
This course provides an opportunity to study and discuss current topics in international business taxation research. The course will present an introduction and overview on important recent papers in international business taxation published in leading scientific journals. Students are expected to attend 2 presentations dealing with international business taxation in the research seminar series of the department.

Objectives
Students should gain knowledge on the current research topics in international business taxation such as international debt shifting and international transfer pricing. Students should achieve a basic understanding of the research methodologies currently applied in research on international business taxation. Students are expected to present two research papers dealing with current topics in international business taxation and to participate in the following discussion of the paper.

Literature
Available on Ilias at the beginning of the term.
Content
The course will discuss implications of multilevel governance on economic behavior (of governments, individuals or firms). Topics presented include:
(i) assignment of responsibilities in federations
(ii) revenue sharing and fiscal transfers
(iii) tax competition.

Objectives
The course will equip students with formal methods to understand complex issues in fiscal federalism. It particularly aims at making sense of actual practices in federations around the world.

Literature
A literature list will be provided online
This course can be taken as part of the following programs/modules:

**Doctoral Program**

**Economics**

### Content

This course will present a unified framework in which public policy and, in particular, tax policy and its consequences can be analyzed. We introduce basic concepts used in public economics and some fundamentals of economic modelling. Topics include:

(i) taxes and labor supply  
(ii) income taxation  
(iii) commodity taxation  
(iv) taxes and investment, as well as  
(v) taxes and foreign direct investment.

### Objectives

The main agenda of this lecture is to familiarize students with important topics in public economics with a focus on taxation. The course will not only present theoretical methods used in public economics, it also aims at demonstrating how theoretical work has influenced empirical research by discussing resent research papers.

### Literature

Keuschnigg, Christian (2005), Öffentliche Finanzen: Einnahmenpolitik, Tübingen: Mohr Siebeck. An English manuscript will be provided.
E420 Advanced Perspectives in the Analytics and Policy Design of International Migration

ECTS-Credits: 6
Workload Hours: Contact Hours: 60  Independent Study: 120
Duration: 1 Semester
Cycle: generally: SS
Language: English
Course Type: Lecture (2 SWS), Practice Course (2 SWS), taught in block format
Method of Assessment: Written Exam (90 minutes)
Prerequisite for: ---
Prerequisites: E424
Limited Attendance: 12
Person Responsible: Prof. Dr. Wilhelm Kohler
Lecturer: Prof. Dr. Oded Stark

This course can be taken as part of the following programs/modules:

Doctoral Program  Economics

Content
International migration is one of the most exciting topics to explore in social science research. Why do some people leave while others stay? What are the repercussions of migration for the sending and the receiving economies, for the migrants themselves, and for their families? These are themes that invite disciplined inquiry. The main purpose of the course is to induce the participants to think rigorously, creatively, and in non-conventional ways on various approaches to the modeling of migration choices and consequences, and to demonstrate to the participants how such a thinking process could enrich the spectrum of informed migration policies.

Objectives
Following the course, the participants are expected to be more at ease with deciphering theoretical research on migration, and at engaging in such research themselves. Participants will be exposed to the art of economic modeling in general, and to the workings of applied microeconomic theory in particular.

Literature
Stark, Oded, Altruism and Beyond, Cambridge: Cambridge University Press, 1995 and 1999
Journal articles to be announced in the course
Although this course is concerned with the theory of trade policy under imperfectly competitive markets, we begin with a brief exposition of some main results from the theory of trade policy under conditions of perfect competition. We then ask how a tariff affects trade when the exporting firms are imperfectly competitive. Intra-industry trade, the two-way exchange of goods, constitutes a significant fraction of world trade flows. We explore two different explanations. The first is price discrimination. Firms segment their markets, restricting deliveries to the domestic market in order to keep the price high, while selling more aggressively abroad. The result is reciprocal dumping. The second is increasing returns to scale and product differentiation. We explore in detail trade policy in the presence of intra-industry trade. Finally, we analyze the implications of firm-level heterogeneity. The syllabus could be like this:

1. Basic concepts
2. Strategic role of trade policy
3. Reciprocal dumping
4. Trade policy with intra-industry trade
5. Trade policy under firm-level heterogeneity

Objectives

This course imparts the necessary skills for students to understand which market imperfections are behind the arguments for protection. Students will also learn to challenge the relevant theoretical models in international economics.

Literature

E423 Firm-based View of International Trade: Positive and Normative Issues

ECTS-Credits: 9
Workload Hours: Contact Hours: 60  Independent Study: 210
Duration: 1 Semester
Cycle: generally: WS
Language: English
Course Type: Lecture (3 SWS), Practice Course (1 SWS)
Method of Assessment: Written Exam (90 minutes), Assignments
Prerequisite for: ---
Prerequisites: E424; S422 desirable
Limited Attendance: 30
Person Responsible: Dr. Bohdan Kukharskyy
Lecturer: Dr. Bohdan Kukharskyy

This course can be taken as part of the following programs/modules:
Doctoral Program: Economics

Content
The course reviews modern theoretical developments of trade theory, focusing on heterogeneity among firms. Students will learn about determinants of the trade pattern as well as the effects of trade when firms differ in their productivity. The aim is to better understand important stylized empirical facts of modern day trade between developed countries as well as trade between industrial and developing countries. Students will also learn empirical methods to quantify the normative implications of trade in an environment of firm heterogeneity.

Objectives
This course intends to familiarize students with the state-of-the-art concepts and methods used in modern trade theory. It imparts the necessary skills to conduct own theoretical and empirical research in international economics. Students will also acquire some programming skills with the mathematical software MAPLE, which can be used to calibrate the theoretical models and assess the welfare gains from trade.

Literature
## E441 Topics in International Trade

**ECTS-Credits**  
9

**Workload Hours**  
Contact Hours: 60  
Independent Study: 210

**Duration**  
1 Semester

**Cycle**  
generally: WS

**Language**  
English

**Course Type**  
Lecture (4 SWS)

**Method of Assessment**  
Written Exam (120 minutes), Presentation, Assignment

**Prerequisite for**  
---

**Prerequisites**  
Economics of Globalization I: International Trade (E470)

**Limited Attendance**  
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**Person Responsible**  
Prof. Dr. Frank Stähler

**Lecturer**  
Prof. Dr. Frank Stähler, Dr. Onur Koska

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This course can be taken as part of the following programs/modules:

<table>
<thead>
<tr>
<th>Doctoral Program</th>
<th>Economics</th>
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</thead>
</table>

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**Content**

This course builds deals with selected topics of the international trade literature. Topics will change from year to year. We will go through academic papers in class.

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**Objectives**

After having passed this course successfully, you will be able to understand the details of specific models in the international trade literature, and you will be able to read original academic papers.

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**Literature**

The list of papers which we will discuss in class will be posted Ilias.
### E450 Game Theory and Industrial Organization

<table>
<thead>
<tr>
<th>ECTS-Credits</th>
<th>6 (9 with Colloquium)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workload Hours</td>
<td>Contact Hours: 30 Independent Study: 150</td>
</tr>
<tr>
<td>Duration</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Cycle</td>
<td>generally: WS</td>
</tr>
<tr>
<td>Language</td>
<td>English</td>
</tr>
<tr>
<td>Course Type</td>
<td>Lecture (2 SWS)</td>
</tr>
<tr>
<td>Method of Assessment</td>
<td>Written Exam (90 minutes), Assignments</td>
</tr>
<tr>
<td>Prerequisite for</td>
<td>---</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>---</td>
</tr>
<tr>
<td>Limited Attendance</td>
<td>---</td>
</tr>
<tr>
<td>Person Responsible</td>
<td>Prof. Dr. Manfred Stadler</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Prof. Dr. Manfred Stadler</td>
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</table>

This course can be taken as part of the following programs/modules:

- **Doctoral Program**
- **Economics**

### Content

The course is concerned with the strategic interaction of firms in relevant markets. Firm behavior, market structure and market performance are explained in terms of some basic market conditions such as technology, demand, entry cost, and information structure. Special topics are collusion, deterrence and accommodation of market entry, strategic choice of capacities, advertising, investment, research and development, location, horizontal and vertical product differentiation as well as information sharing and signaling.

### Objectives

The aim of the lecture is to provide students with knowledge of the basic mathematical tools and key concepts used in modern game theory and teach them how to apply these concepts when analyzing special markets.

### Literature

The course material will be provided on the ILIAS-online platform.
E450K Colloquium on Game Theory and Industrial Organisation

ECTS-Credits: 3

Workload Hours: Contact Hours: 30, Independent Study: 60

Duration: 1 Semester

Cycle: generally: WS

Language: English

Course Type: Colloquium (2 SWS)

Method of Assessment: Presentation

Prerequisite for: ---

Prerequisites: E450

Limited Attendance: ---

Person Responsible: Prof. Dr. Manfred Stadler

Lecturer: Prof. Dr. Manfred Stadler

This course can be taken as part of the following programs/modules:

- Doctoral Program
- Economics

Content

The Colloquium complements the lecture on Game Theory and Industrial Organization. It deals with selected topics in the theory of strategic competition.

Objectives

Students learn how to present and discuss advanced models in the Theory of Industrial Organization.

Literature

The course material will be provided on the ILIAS-online platform.
E453 Economic Growth

ECTS-Credits 6 (9 with Colloquium)
Workload Hours Contact Hours: 30 Independent Study: 150
Duration 1 Semester
Cycle generally: SS
Language English
Course Type Lecture (2 SWS)
Method of Assessment Written Exam (90 minutes), Assignments
Prerequisite for ---
Prerequisites ---
Limited Attendance ---
Person Responsible Prof. Dr. Manfred Stadler
Lecturer Prof. Dr. Manfred Stadler

This course can be taken as part of the following programs/modules:

Doctoral Program Economics

Content
After a short review of the neoclassical growth theory the course deals with some basic models of endogenous growth. Special topics are population dynamics, education and innovation, public infrastructure, natural resources, environmental pollution and sustainable development.

Objectives
The aim of the lecture is to provide students with knowledge of some basic mathematical tools and key concepts which are essential in the theory of economic growth (differential equations, dynamic optimization) and teach them the decisive forces fostering and hampering economic development and growth.

Literature
The course material will be provided on the ILIAS-online platform.
E453K Colloquium on Economic Growth

ECTS-Credits 3
Workload Hours Contact Hours: 30 Independent Study: 60
Duration 1 Semester
Cycle generally: SS
Language English
Course Type Colloquium (2 SWS)
Method of Assessment Presentation
Prerequisite for ---
Prerequisites E453
Limited Attendance ---
Person Responsible Prof. Dr. Manfred Stadler
Lecturer Prof. Dr. Manfred Stadler

This course can be taken as part of the following programs/modules:

Doctoral Program Economics

Content
The Colloquium complements the lecture on Economic Growth. It deals with selected topics in Natural Resource and Environmental Economics.

Objectives
Students learn how to present and discuss advanced models in Natural Resource and Environmental Economics.

Literature
The course material will be provided on the ILIAS-online platform.
E460 Empirical Studies on Migration, Trade and Growth in the Long Run

<table>
<thead>
<tr>
<th>ECTS-Credits</th>
<th>9</th>
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<tbody>
<tr>
<td>Workload Hours</td>
<td>Contact Hours: 30  Independent Study: 240</td>
</tr>
<tr>
<td>Duration</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Cycle</td>
<td>generally: WS, biennially, next: WS 15/16</td>
</tr>
<tr>
<td>Language</td>
<td>English</td>
</tr>
<tr>
<td>Course Type</td>
<td>Lecture (2 SWS)</td>
</tr>
<tr>
<td>Method of Assessment</td>
<td>Presentation, Assignments, Term Paper</td>
</tr>
<tr>
<td>Prerequisite for</td>
<td>---</td>
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<tr>
<td>Prerequisites</td>
<td>---</td>
</tr>
<tr>
<td>Limited Attendance</td>
<td>40</td>
</tr>
<tr>
<td>Person Responsible</td>
<td>Prof. Dr. Jörg Baten</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Prof. Dr. Jörg Baten</td>
</tr>
</tbody>
</table>

This course can be taken as part of the following programs/modules:

| Doctoral Program | Economics |

Content

This lecture provides an overlook over interesting quantitative topics in international economic history. You will learn which factors had an impact on international migration and how migrants influenced their destination countries in the long run. We will also discuss the latest research on the biological standard of living and human capital development, which offers important insights about the economic development in certain countries and regions.

Objectives

The students learn about the relationship between migration, trade and long run growth. Additionally, they get to know the current research in this field and its most important statistical methods.

Literature

Please refer to the studies on our homepage.
E470 Economics of Globalization I: International Trade

| ECTS-Credits | 9 |
| Workload Hours | Contact Hours: 60  Independent Study: 210 |
| Duration | 1 Semester |
| Cycle | generally: SS |
| Language | English |
| Course Type | Lecture (3 SWS), Practice Course (1 SWS) |
| Method of Assessment | Written Exam (90 minutes) |
| Prerequisite for | E570 |
| Prerequisites | E424, E433 |
| Limited Attendance | --- |
| Person Responsible | Prof. Dr. Udo Kreickemeier |
| Lecturer | Prof. Dr. Udo Kreickemeier |

This course can be taken as part of the following programs/modules:

| Doctoral Program | Economics |

Content

1. Comparative and absolute advantage
2. Factor endowments, factor prices and trade
3. The gains from trade
4. New Trade theory: monopolistic competition and oligopoly
5. Normative theory of trade policy under perfect competition
6. Trade policy under oligopolistic competition
7. Political economy of trade policy

Objectives

Students develop an understanding of advanced tools of trade theory. They learn how these tools are applied to core problems that repeatedly appear in the globalization debate. In particular, students learn how trade affects wages and real incomes, and how trade policy affects the well-being of the society at large.

Literature

### E510 Master Seminar "Topics in Empirical Public Economics"

<table>
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<tr>
<th><strong>ECTS-Credits</strong></th>
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<tbody>
<tr>
<td><strong>Workload Hours</strong></td>
<td>Contact Hours: 30  Independent Study: 240</td>
</tr>
<tr>
<td><strong>Duration</strong></td>
<td>1 Semester</td>
</tr>
<tr>
<td><strong>Cycle</strong></td>
<td>generally: SS</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>English</td>
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<tr>
<td><strong>Course Type</strong></td>
<td>Seminar (2 SWS)</td>
</tr>
<tr>
<td><strong>Method of Assessment</strong></td>
<td>Presentation, Discussion, Term Paper, Oral Participation</td>
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<tr>
<td><strong>Prerequisite for</strong></td>
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<tr>
<td><strong>Prerequisites</strong></td>
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<tr>
<td><strong>Limited Attendance</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>Person Responsible</strong></td>
<td>Prof. Dr. Georg Wamser</td>
</tr>
<tr>
<td><strong>Lecturer</strong></td>
<td>Prof. Dr. Georg Wamser</td>
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**This course can be taken as part of the following programs/modules:**

| Doctoral Program | Economics |

**Content**

Selected research papers in empirical public economics.

**Objectives**

The primary goal is to prepare students to write a master thesis.

**Literature**

Topics and readings will be announced online.
E512 Master Seminar on Organization and Behavior of Firms

ECTS-Credits 9
Workload Hours Contact Hours: 30  Independent Study: 240
Duration 1 Semester
Cycle generally: WS
Language English
Course Type Seminar (2 SWS)
Method of Assessment Presentation, Term Paper
Prerequisite for ---
Prerequisites ---
Limited Attendance 20
Person Responsible Prof. Dr. Georg Wamser
Lecturer Prof. Dr. Georg Wamser

This course can be taken as part of the following programs/modules:

| Doctoral Program | Economics |

Content

Students are expected to write a 15 page essay and to present their results in class (both in English). The seminar will be based on research articles exploring how firms decide on their organizational structure and how they respond to incentives set by local or federal governments. Topics include internal capital markets of firms, market entry mode choice, legal form choice, spatial organization of firms, etc. Research articles usually apply modern econometric techniques, so that basic knowledge in empirical economics is very helpful.

Objectives

Students gain experience in reading and interpreting economic research articles published in leading international academic journals.

Literature

Topics and readings will be announced online.
This course can be taken as part of the following programs/modules:

<table>
<thead>
<tr>
<th>Doctoral Program</th>
<th>Economics</th>
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</table>

**Content**

This seminar deals with the impact of contractual incompleteness on the production and sourcing decisions of multinational firms. In particular, students will study the effect of a host country’s contracting institutions on a firm’s choice of the production location for its intermediate inputs. Furthermore, they will learn about the impact of contract enforcement on a firm’s decision whether to conduct the production of intermediate inputs in-house or to outsource it to an independent supplier. The aim of this seminar is to better understand the modern day empirical stylized facts about trade and foreign direct investment flows. There is a lecture with the same title which serves the purpose of preparing students for a successful participation in this Seminar.

**Objectives**

Students are enabled (and enable themselves) to understand articles published in leading international academic journals in the field of International Economics. They gain experience in how certain theories and models taught in courses and textbooks of International Economics are applied to real world issues. An important part of their learning will relate to methods of empirical implementation, particularly through econometric methods. In addition, students will gain experience in writing up scientific papers and reports, and in presenting their reports to a critical audience. This will be a critical step towards professional careers within the academic system, but also in research-oriented institutions more generally.

**Literature**

**E550 Master Seminar on Industrial Organization**

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<th>ECTS-Credits</th>
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<tbody>
<tr>
<td>Workload Hours</td>
<td>Contact Hours: 30   Independent Study: 240</td>
</tr>
<tr>
<td>Duration</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Cycle</td>
<td>generally: WS</td>
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<tr>
<td>Language</td>
<td>English</td>
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<tr>
<td>Course Type</td>
<td>Seminar (2 SWS)</td>
</tr>
<tr>
<td>Method of Assessment</td>
<td>Presentation, Term Paper</td>
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<tr>
<td>Prerequisite for</td>
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<tr>
<td>Prerequisites</td>
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<tr>
<td>Limited Attendance</td>
<td>12</td>
</tr>
<tr>
<td>Person Responsible</td>
<td>Prof. Dr. Manfred Stadler</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Prof. Dr. Manfred Stadler</td>
</tr>
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</table>

This course can be taken as part of the following programs/modules:

- Doctoral Program
- Economics

**Content**

The Seminar deals with selected topics (advanced models and case studies) in Game Theory and Industrial Organization.

**Objectives**

Students learn how to write and present a paper.

**Literature**

The course material will be provided on the ILIAS-online platform.
### E551 Master Seminar on Resources and Growth

**ECTS-Credits**  
9

**Workload Hours**  
Contact Hours: 30  
Independent Study: 240

**Duration**  
1 Semester

**Cycle**  
generally: SS

**Language**  
English

**Course Type**  
Seminar (2 SWS)

**Method of Assessment**  
Presentation, Term Paper

**Prerequisite for**  
---

**Prerequisites**  
---

**Limited Attendance**  
12

**Person Responsible**  
Prof. Dr. Manfred Stadler

**Lecturer**  
Prof. Dr. Manfred Stadler

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**This course can be taken as part of the following programs/modules:**

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<tr>
<th>Doctoral Program</th>
<th>Economics</th>
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**Content**

The Seminar deals with selected topics in Growth Economics such as population dynamics, natural resources and environment as well as education and innovation.

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**Objectives**

Students learn how to write and present a paper.

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**Literature**

The course material will be provided on the ILIAS-online platform.
E560 Master Seminar on Integration and Growth in the World Economy

ECTS-Credits: 9
Workload Hours: Contact Hours: 30, Independent Study: 240
Duration: 1 Semester
Cycle: generally: SS (not offered in SS 14)
Language: English
Course Type: Seminar (2 SWS)
Method of Assessment: Presentation, Discussion, Term Paper
Prerequisite for: ---
Prerequisites: ---
Limited Attendance: 40
Person Responsible: Prof. Dr. Jörg Baten
Lecturer: Prof. Dr. Jörg Baten

This course can be taken as part of the following programs/modules:

<table>
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<tr>
<th>Doctoral Program</th>
<th>Economics</th>
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</thead>
</table>

Content

The seminar provides an overlook over interesting topics in European economic history during the latest era. You will learn what led to the “First Era of Globalization” (1880-1913) and what determinants gave rise to its failure. What can history teach us about the current wave of globalization and which influence will anti-globalization movements have? We will also discuss the latest research on the biological standard of living and human capital development, which offers important insights about the economic development in certain countries and regions. As the methodological aspects are intrinsically tied to contents and results of economic history research, we will discuss how to derive such results and how to present them to the public.

Objectives

This seminar focuses on general issues in international economics as well as interesting economic developments in particular countries. After this seminar, you will see the world in a new light. You will also strengthen your knowledge in applied statistical analyses techniques and learn how to use them (STATA). In doing so, you will acquire important skills that enable you to statistically assess the development of a country and get a general idea about its peculiarities.

Literature

E561 Master Seminar Research Internship in Quantitative Economic History

ECTS-Credits 9
Workload Hours Contact Hours: 30  Independent Study: 240
Duration 1 Semester
Cycle generally: WS, SS
Language English
Course Type Seminar (2 SWS)
Method of Assessment Presentation, Discussion, Assignment, Term Paper
Prerequisite for ---
Prerequisites Please send application to: wisoge@uni-tuebingen.de
Limited Attendance ---
Person Responsible Prof. Dr. Jörg Baten
Lecturer Prof. Dr. Jörg Baten and team

This course can be taken as part of the following programs/modules:

| Doctoral Program | Economics |

Content

In this internship, students can obtain deep insights into the process of scholarly research in economic history. They not only look over the shoulders of researchers who are currently working on studies, but they will also participate actively in small work units of information retrieval, econometric analysis and the design of texts. The topics of this research internship will cover long-run human capital development, the development of welfare in many different world regions and international economic history. The internship students will present their results in smaller in-group presentations and will write a final report about the research that has been done.

Objectives

Practical application of current research methods in economic history. Participation in scientific projects.

Literature

Please refer to the studies on our homepage.
# E563 Master Seminar Research Internship in Development Economics and Economic History

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<th>ECTS-Credits</th>
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<tbody>
<tr>
<td>Workload Hours</td>
<td>Contact Hours: 30  Independent Study: 240</td>
</tr>
<tr>
<td>Duration</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Cycle</td>
<td>generally: WS, SS</td>
</tr>
<tr>
<td>Language</td>
<td>English</td>
</tr>
<tr>
<td>Course Type</td>
<td>Seminar (2 SWS)</td>
</tr>
<tr>
<td>Method of Assessment</td>
<td>Presentation, Discussion, Assignment, Term Paper</td>
</tr>
<tr>
<td>Prerequisite for</td>
<td>---</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>Please send application to: <a href="mailto:wisoge@uni-tuebingen.de">wisoge@uni-tuebingen.de</a></td>
</tr>
<tr>
<td>Limited Attendance</td>
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</tr>
<tr>
<td>Person Responsible</td>
<td>Prof. Dr. Jörg Baten</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Prof. Dr. Jörg Baten</td>
</tr>
</tbody>
</table>

This course can be taken as part of the following programs/modules:

| Doctoral Program | Economics |

## Content

In this seminar, students can obtain deep insight into our research on empirical development economics and economic history. They will receive some explanation about research design from the advisor, read exciting new literature and perform parts of the data analysis themselves. Visits in archives might be part of the internship, but this will not always be possible. Topics included are, for example, the effects of development aid, brain drain, and general development trends (human capital, welfare) in poor countries over the long run. The topics are chosen based on the research that is ongoing in our group at the time of the internship. At the end of the internship, the students write a term paper that reports their research activities, the documents and the stata do-files they worked with.

## Objectives

Practical application of current research methods in economic history. Participation in scientific projects.

## Literature

Please refer to the studies on our homepage.
Content
The seminar will alternate in its focus, but will always deal with issues that are covered in the courses on Economics of Globalization I: International Trade, Economics of Globalization II: Factor Movements, Economics of Globalization III: Topics in Trade Policy. Students will be assigned specific topics on which to write and present a seminar paper. For each of these topics, the seminar goes beyond the level achieved in the above courses, leading up to the frontier of academic research on issues presently discussed in academia and the policy arena.

Objectives
Students are enabled (and enable themselves) to digest articles published in leading international academic journals in the field of International Economics. They gain experience in how certain theories and models taught in courses and textbooks of International Economics are applied to real world issues. This will be a critical step towards professional careers within the academic system, but also in research-oriented institutions more generally.

Literature
A list of topics and readings will be announced together in the first meeting of the seminar.
S421 Multivariate Methods

ECTS-Credits 6
Workload Hours Contact Hours: 60 Independent Study: 120
Duration 1 Semester
Cycle generally: WS, biennially, next: WS 14/15
Language English
Course Type Lecture (3 SWS), Practice Course (1 SWS)
Method of Assessment Written Exam (90 minutes)
Prerequisite for ---
Prerequisites Basic knowledge of probability theory, linear algebra and econometric methods
Limited Attendance ---
Person Responsible Prof. Dr. Martin Biewen
Lecturer Prof. Dr. Martin Biewen and team members

This course can be taken as part of the following programs/modules:

<table>
<thead>
<tr>
<th>Doctoral Program</th>
<th>Economics</th>
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</table>

Content
Linear Algebra, Multiple Linear Regression, Multivariate Distributions, Estimation and Testing, Principal Components, Factor Analysis, Cluster Analysis, Discriminant Analysis, Correspondence Analysis, Canonical Correlation, Multidimensional Scaling, Conjoint Measurement

Objectives
Introduction to the most commonly used methods of multivariate statistics. Motivation, derivation, and practical illustration of the different methods. The focus of the course is on the derivation and the theoretical properties of the different methods, but students will also learn how to employ econometric software to implement them in practical applications.

Literature
Härdle/Simar: Applied Multivariate Statistical Analysis
Rencher, A.: Methods of Multivariate Analysis
### ZE650 Master Thesis Colloquium in Economic Theory

<table>
<thead>
<tr>
<th>Course Details</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>ECTS-Credits</td>
<td>0</td>
</tr>
<tr>
<td>Workload Hours</td>
<td>Contact Hours: 30 Independent Study: ---</td>
</tr>
<tr>
<td>Duration</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Cycle</td>
<td>generally: WS, SS</td>
</tr>
<tr>
<td>Language</td>
<td>English</td>
</tr>
<tr>
<td>Course Type</td>
<td>Colloquium (2 SWS)</td>
</tr>
<tr>
<td>Method of Assessment</td>
<td>Presentation of the Master Thesis</td>
</tr>
<tr>
<td>Prerequisite for</td>
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<tr>
<td>Prerequisites</td>
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<tr>
<td>Limited Attendance</td>
<td>6</td>
</tr>
<tr>
<td>Person Responsible</td>
<td>Prof. Dr. Manfred Stadler</td>
</tr>
<tr>
<td>Lecturer</td>
<td>Prof. Dr. Manfred Stadler</td>
</tr>
</tbody>
</table>

**This course can be taken as part of the following programs/modules:**

- Doctoral Program
- Economics

### Content

Students are requested to write their Master Thesis on a pre-defined topic and present their work in progress during the Colloquium in order to obtain advice.

### Objectives

The aim of the Colloquium is to discuss work in progress while writing the Master Thesis.

### Literature

Depending on the topic of the Master Thesis.