Presentation: Master Programme

M.Sc. Economics
M.Sc. Environmental and Resource Economics
M.Sc. Quantitative Economics
M.Sc. Quantitative Finance

Department of Economics

Prof. Dr. Katrin Rehdanz (Environmental and Energy Economics)
Prof. Dr. Sebastian Köhne (Public Finance)
Lutz Honvehlmann (Study Coordination)

March 9th, 2023: 11:00 – 11:30 (online)

Slides are available here:
www.wiso.uni-kiel.de/de/studium/aktuelles
Roadmap

• Master Programme
  – Economics
  – Environmental and Resource Economics
  – Quantitative Economics
  – Quantitative Finance

• Programme Structure

• Exchange Programme

• Curricula

• Study Programme Advisors

• Questions, …etc.
Economics in General

- **Goal**: understanding the structure and functioning of the economy
  - On the individual level (Microeconomics)
  - On the aggregate level (Macroeconomics)

- **Examples**:
  - What are the economic consequences of the Ukraine war?
  - How much has economic inequality increased, and why?
  - Who benefits from a higher minimum wage, and who loses?
  - Which instruments are suitable for limiting CO₂ emissions?

- **Tools**
  - **Theory**: Mathematical Models
  - **Empirics**: Statistical Estimation
Programme Structure

• We offer four Master‘s programmes in the domain of economics, with different specializations.

• Duration: 4 semesters (= 2 years)

• Language (teaching and exams): English

• Admission requirements:
  • Bachelor‘s degree
  • Minimum grade: 2.5 (German scale)
  • Specific combination of modules
  • For details see Examination Regulations (FPO) of the specific programme
Selection of Programmes

Economics
• Large selection of elective modules specializing in different domains of economics

Quantitative Economics
• Focus: Statistics and econometric methods

Environmental and Resource Economics
• Focus: Environmental and Resource Economics

Quantitative Finance
• Focus: Applied financial economics
• Cooperation with the Department of Mathematics
Outlook: After the Master‘s degree…

- **Doctoral Programme**

- **Job market**
  - Theoretical knowledge (analytical thinking, understanding of aggregate economic relationships) & quantitative skills (Statistics, Econometrics, Machine Learning) are highly demanded
  - Private Sector (Banks, Insurance, Consulting, Journalism)
  - Public Sector (Government, Central Banks, Statistical Offices)
  - Int. Organisations (ECB, EU-Commission, IMF, World Bank)
  - NGOs
  - ...

Christian-Albrechts-Universität zu Kiel
Exchange Programmes

- Partner Universities - in more than 30 countries:
  - France: Université Paris 1 Panthéon-Sorbonne
  - Sweden: Stockholms universitet
  - Spain: Universidad Autónoma de Madrid
  - …and many more

- Learning Agreement: Recognition of credits earned abroad
- Language Acquisition: Local language courses
- Financial Support: Monthly grant (level depends on university location)
- Information/Application: https://www.erasmus-vwl.uni-kiel.de
## Master Economics

https://www.wiso.uni-kiel.de/en/study/master/economics

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>3rd Semester*</th>
<th>4th Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Microeconomics (12 ECTS)</td>
<td>Economic Dynamics (6 ECTS)</td>
<td>Econometric Methods (6 ECTS)</td>
<td>Research and Scientific Writing in Economics (6 ECTS)</td>
</tr>
<tr>
<td>Compulsory Elective Lecture Economics (6 ECTS)</td>
<td>Compulsory Elective Lecture Economics (6 ECTS)</td>
<td>Advanced Macroeconomics (6 ECTS)</td>
<td>Time Series Econometrics (6 ECTS) or Microeconometrics (6 ECTS)</td>
</tr>
<tr>
<td>Compulsory Elective Lecture Economics (6 ECTS)</td>
<td>Compulsory Elective Lecture Economics (6 ECTS)</td>
<td>Compulsory Elective Seminar Economics (6 ECTS)</td>
<td>Compulsory Elective Supplementary Subjects (6 ECTS)</td>
</tr>
<tr>
<td>Compulsory Elective Lecture Economics (6 ECTS)</td>
<td>Compulsory Elective Lecture Economics (6 ECTS)</td>
<td>Compulsory Elective Seminar Economics (6 ECTS)</td>
<td>Compulsory Elective Supplementary Subjects (6 ECTS)</td>
</tr>
<tr>
<td>Master’s Thesis ** (18 ECTS)</td>
<td>Compulsory Elective Lecture Economics ** (6 ECTS)</td>
<td>Compulsory Elective Lecture Economics ** (6 ECTS)</td>
<td></td>
</tr>
<tr>
<td>4th Semester</td>
<td>Option 1</td>
<td>Option 2</td>
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* Mobility window (suitable for semesters abroad)

** There are two options for the Master’s thesis. Option 1: The Master’s thesis is completed with 18 ECTS credits and two further modules from the Compulsory Elective Section Economics are completed (according to the regulations in § 11). Option 2: The Master’s thesis is completed with 30 ECTS credits.
### Master Quantitative Economics

[https://www.wiso.uni-kiel.de/en/study/master/quantitative-economics](https://www.wiso.uni-kiel.de/en/study/master/quantitative-economics)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Advanced Microeconomics (12 ECTS)</th>
<th>Economic Dynamics (6 ECTS)</th>
<th>Econometric Methods (6 ECTS)</th>
<th>Probability Calculus (6 ECTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Semester</td>
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<tr>
<td>4th Semester</td>
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<td></td>
<td>Nonparametric Statistics (6 ECTS)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Master's Thesis (30 ECTS)</th>
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</thead>
</table>

* Mobility window (suitable for semesters abroad)
**Master Environmental and Resource Economics**

[https://www.wiso.uni-kiel.de/en/study/master/environmental-resource](https://www.wiso.uni-kiel.de/en/study/master/environmental-resource)

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>3rd Semester*</th>
<th>4th Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource Economics** (6 ECTS)</td>
<td>Advanced Microeconomics (12 ECTS)</td>
<td>Environmental Valuation (6 ECTS)</td>
<td>Master's Thesis (18 ECTS) ***</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Research and Scientific Writing in Economics (6 ECTS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Economic Dynamics (6 ECTS)</td>
<td>Compulsory Elective Supplementary Subjects (6 ECTS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Econometric Methods (6 ECTS)</td>
<td>Compulsory Elective Lecture AEM (6 ECTS)</td>
<td>Compulsory Elective Lecture ERE (6 ECTS)</td>
</tr>
</tbody>
</table>

|                      | Compulsory Elective Seminar ERE (6 ECTS) | Compulsory Elective Seminar Economics / ERE / AEM (6 ECTS) | Compulsory Elective Lecture Economics (6 ECTS) |
|                      | Compulsory Elective Supplementary Subjects (6 ECTS) | Compulsory Elective Supplementary Subjects (6 ECTS) |                  |
|                      | Compulsory Elective Lecture Economics *** (6 ECTS) | Compulsory Elective Lecture Economics *** (6 ECTS) | Master's Thesis (30 ECTS) *** |

ERE = Environmental and Resource Economics; AEM = Applied Empirical Methods

* Mobility window (suitable for semesters abroad)
** Environmental Economics and Resource Economics can be offered either in summer term or in winter term but not less than once per academic year. Each of the modules will be offered at least every other semester.
*** There are two options for the Master's thesis. Option 1: The Master's thesis is completed with 18 ECTS credits and two further modules from the Compulsory Elective Section Economics and/or the Supplementary Studies are completed (according to the regulations in §11). Option 2: The Master's thesis is completed with 30 ECTS credits.
# Master Quantitative Finance

[https://www.wiso.uni-kiel.de/en/study/master/quantitative-finance](https://www.wiso.uni-kiel.de/en/study/master/quantitative-finance)

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>3rd Semester*</th>
<th>4th Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Finance (12 LP)</td>
<td>Computational Finance (12 LP)</td>
<td>Compulsory Elective Specialization in Mathematical Finance (6 LP)</td>
<td>Master’s Thesis (18 LP) ***</td>
</tr>
<tr>
<td>Probability Calculus (6 LP)</td>
<td>Inferential Statistics (6 LP)</td>
<td>Compulsory Elective Supplementary Subjects (6 LP) ****</td>
<td>Compulsory Elective Supplementary Subjects (6 LP) <em><strong>/</strong></em>*</td>
</tr>
<tr>
<td>Econometric Methods (6 LP)</td>
<td>Time Series Econometrics (6 LP)</td>
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<tr>
<td></td>
<td></td>
<td>MASTER’S THESIS (30 LP) ***</td>
<td></td>
</tr>
</tbody>
</table>

* = Mobilitätsfenster (für Auslandsemester geeignet)


*** = Es gibt zwei Optionen für die Masterarbeit. Option 1: die Masterarbeit wird mit 18 LP erbracht. Option 2: Die Masterarbeit wird mit 30 LP erbracht, dann entfallen 12 LP aus den Compulsory Elective Sections (die Regelungen in §11 müssen dabei eingehalten werden).

**** = Das Supplementary Subjects kann vollständig durch Module der anderen Compulsory Elective Bereiche ersetzt werden (im Rahmen der Regelungen von §11).
At the bottom of these websites...
Questions regarding the study programme, course structure, examination regulations, modules…

**Economics, Master**

*Dr. Hauke Jelschen*
Department of Economics
Wilhelm-Seelig-Platz 1, Room 402a
24118 Kiel
Tel.: 0431/880-4049
E-Mail: sb.econ@economics.uni-kiel.de
Office hours: on request

**Environmental and Resource Economics, Master**

*Eric Arndt, M.Sc.*
Department of Economics
Wilhelm-Seelig-Platz 1, Room 414
24118 Kiel
Tel.: 0431/880-5630
E-Mail: sb.enre@economics.uni-kiel.de
Office hours: Tuesdays, 12:00 - 13:00, and on request

**Quantitative Economics, Master**

*Prof. Dr. Uwe Jensen*
Institute for Statistics and Econometrics
Wilhelm-Seelig-Platz 7, Room 410
24118 Kiel
Tel.: 0431/880-1627
E-Mail: jensen@stat-econ.uni-kiel.de
Office hours in the lecture period: Mondays, 13:00 - 14:00

**Quantitative Finance, Master**

*Dr. Cristina Sattarhoff*
Department of Economics
Wilhelm-Seelig-Platz 1, Room 511
24118 Kiel
Tel.: 0431/880-3369
E-Mail: sb.qf@economics.uni-kiel.de
Office hours: on request
Olat Course [MA Programme Quantitative Finance](#)
FACHSCHAFT WISO
Student Board of the Faculty

https://fswiso-kiel.com/home
Questions?

Slides will be provided here:
www.wiso.uni-kiel.de/de/studium/aktuelles

www.vwl.uni-kiel.de
www.wiso.uni-kiel.de
Umfrage zu den Studien-Informations-Tagen

Wir sind sehr an Ihrer Meinung zu den Studien-Informations-Tagen interessiert und bitten Sie um ein Feedback.

Die Umfrage ist anonym.
Vielen Dank für Ihre Unterstützung!