wir812 - Environmental Law .............................................................. 6
wir901 - Environmental Economics .............................................................. 8
wir902 - International Sustainability Management .............................................................. 9
wir904 - Environmental and Sustainability Policies .............................................................. 11
wir905 - Environmental Sciences .............................................................. 13
wir808 - Multivariate Statistics .............................................................. 15
wir809 - Econometrics .............................................................. 17
wir894 - Econometrics of Policy Evaluation .............................................................. 18
inf651 - Environmental Management Information Systems I .............................................................. 19
inf659 - Environmental Management Information Systems II .............................................................. 21
lök210 - Practice of Nature Conservation .............................................................. 23
lök320 - Sustainable Spatial Development in Europe .............................................................. 25
lök998 - Environmental Planning .............................................................. 27
wir809 - Econometrics .............................................................. 28
wir821 - International Trade, Production and Change .............................................................. 29
wir826 - Sectoral, Functional and Institutional Approaches to Marketing .............................................................. 31
wir829 - Development directions in Marketing Research .............................................................. 33
wir878 - Public Economics and Market Design .............................................................. 35
wir915 - Renewable Energy Systems .............................................................. 37
wir919 - Topics in Sustainability Economics and Management I .............................................................. 38
wir930 - Open Module .............................................................. 39
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>wir932</td>
<td>International Regulatory and Competition Policy</td>
<td>40</td>
</tr>
<tr>
<td>wir934</td>
<td>Business French</td>
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<td>wir935</td>
<td>Business Spanish</td>
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</tr>
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<td>Eco-Venturing</td>
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<tr>
<td>wir939</td>
<td>Topics in Sustainability Economics and Management II</td>
<td>49</td>
</tr>
<tr>
<td>wir863</td>
<td>Business and Legal Chinese I</td>
<td>50</td>
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<tr>
<td>wir880</td>
<td>Marine &amp; Maritime Law</td>
<td>51</td>
</tr>
<tr>
<td>wir881</td>
<td>Energy Law</td>
<td>53</td>
</tr>
<tr>
<td>wir883</td>
<td>Transnational Biodiversity and Genetic Resources Law</td>
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<tr>
<td>wcm140</td>
<td>Planning and Management of Coastal Zones and Sea Basins</td>
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<td>wir832</td>
<td>Innovation Management</td>
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<td>Business English</td>
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<td>wir866</td>
<td>Business and Legal Chinese II</td>
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<td>Legal and Business Language: Spanish II</td>
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<td>wir850</td>
<td>Start-up Consulting</td>
<td>77</td>
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<tr>
<td>wir873</td>
<td>Applied Economics</td>
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<td>wir886</td>
<td>Digital Transformation: Strategies and Sustainability</td>
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<td>wir890</td>
<td>Climate Economics</td>
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<td>wir892</td>
<td>Computational Economics</td>
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Basic and Accentuation Modules

wir812 - Environmental Law

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**Applicability of the module**
- Master's programme Business Administration: Management and Law (Master) > Basismodule
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-Recht
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - Recht
- Master's Programme Business Informatics (Master) > Module der Wirtschafts- und Rechtswissenschaften (Master)
- Master's Programme Computing Science (Master) > Module aus anderen Studiengängen
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules

**Responsible persons**
- Meyerholt, Ulrich (Module counselling)
- Godt, Christine (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

**Prerequisites**
- Building on the existing knowledge of the participants, the course will deepen knowledge of European and international law, whereby emphasis will be laid on those areas in which the dividing line between state intervention (public law) and market rights (private law) has become blurred. Students will be able to analyze contemporary regulatory techniques inherent in the multilevel system of governance and to assess them from an interdisciplinary (economic and legal) perspective.

**Module contents**
- The module comprises two courses, one of which will be taught by PD Dr. Meyerholt, and the other together with Prof. Godt.
- The first course deals with selected issues in environmental law. With the general structure of environmental law as a point of departure, the course content will be taught in a holistic manner that will also incorporate the leading decisions of the higher courts.
- The second course takes into consideration intra-disciplinary environmental law as situated between public and private economic law, whereby special focus will be laid on the European and international dimensions.

**Recommended reading**

**Language of instruction**
- German

**Duration (semesters)**
- 1 Semester

**Module frequency**
- jährlich

**Module capacity**
- unlimited

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**
- Examination times: during term
- Type of examination: oral presentation and written script

**Type of course**
- Lecture

**SWS**
- 4

**Frequency**
- SoSe oder WiSe
| On-site workload | 56 h |
wir901 - Environmental Economics

Module label: Environmental Economics
Module abbreviation: wir901
Credit points: 6.0 KP
Workload: 180 h
   - Lecture: 3 SWS (42h)
   - Exercise: 1 SWS (14h)

Applicability of the module
- Master Applied Economics and Data Science (Master) > Economics
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-VWL
- Master's Programme Computing Science (Master) > Module aus anderen Studiengängen
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules

Responsible persons
- Helm, Carsten (Module counselling)
- Lehrenden, Die im Modul (Module counselling)
- Lehrenden, Die im Modul (authorised to take exams)
- Helm, Carsten (module responsibility)

Prerequisites
- Keine

Skills to be acquired in this module
Know and be able to apply fundamental concepts and figures of thought in environmental economics; be able to analyse and evaluate environmental problems and solution approaches; practice scientific methods and the ability to discuss; be able to classify environmental economics in the context of interdisciplinary sustainability research.

Module contents
Economic analysis of environmental impacts (property rights, external effects, market failure); ethical aspects of environmental economics, instruments of environmental policy (tradable permits, taxes, subsidies, liability law); innovation and adaptation of new technologies; international environmental problems.

Recommended reading

Links
Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: Annually
Module capacity: unlimited
Type of module: Pflicht o. Wahlpflicht / compulsory or optional
Teaching/Learning method: Lecture and exercise

Previous knowledge
Examination Examination times Type of examination
Final exam of module At the end of the lecture period Written exam; bonus through solution of exercises

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<th>SWS</th>
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<tr>
<td>Exercises</td>
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Total module attendance time: 56 h
wir902 - International Sustainability Management

Module label: International Sustainability Management
Module abbreviation: wir902
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's Programme Business Informatics (Master) > Module der Wirtschafts- und Rechtswissenschaften (Master)
- Master's programme Social Sciences (Master) > Wahlpflichtmodule anderer Institute und Departments
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules
- Master's Programme Water and Coastal Management (Master) > Socioeconomics

Responsible persons:
- Siebenhüner, Bernd (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Wegner, Alkje (authorised to take exams)
- Sievers-Glotzbach, Stefanie (authorised to take exams)

Prerequisites:
No

Skills to be acquired in this module:
- Knowledge on the basic concepts and strategies of sustainability management related to corporate practice:
  * Sustainability: Basic concepts, strategies,
  * Domestic and international challenges for business,
  * Business case for sustainable development,
  * Integrative concepts of sustainable corporations,
  * Sustainable strategies,
  * Management instruments
- Discussing topics of international sustainability management with students from different scientific disciplines.
- Ability to present and evaluate different concepts and instruments of international sustainability management

Module contents:
This module consists of a one lecture and one seminar (2 weekly contact hours per lecture/seminar) dealing with basic concepts and strategies of sustainability management within corporations. Both, lecture and seminar give an overview of current sustainability strategies for companies and present a variety of instruments to integrate and initiate sustainable development within corporations. While the lecture focuses more on theoretical approaches and introduces basic concepts of corporate sustainability management, the seminar provides a variety of case studies and business cases to demonstrate different concepts and instruments of sustainability management. The seminar provides the possibilities for inter- and transdisciplinary exchange and discussions.

Recommended reading:
- BMU/BDI (Eds.) 2002: Sustainability Management in Business Enterprises. CSM, University of Lueneburg (Schaltegger, Herzig, Kleiber, Müller), http://www2.leuphana.de/umanagement/csm/content/nama/downloads/pdf-dateien/nmu_fs_engl_final.pdf
- Charter, Martin/Tischner, Ursula (Eds.) (2001): Sustainable Solutions, Developing Products and Services for the Future, Sheffield: Greenleaf;

Links

Language of instruction: English
<table>
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<td>By the end of the lecture period</td>
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**wir904 - Environmental and Sustainability Policies**

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| Applicability of the module| Master's Programme Business Informatics (Master) > Module der Wirtschafts- und Rechtswissenschaften (Master) > Module aus anderen Studiengängen  
> Master's programme Social Sciences (Master) > Wahlpflichtmodule anderer Institute und Departments  
> Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules |
| Responsible persons        | Lehrenden, Die im Modul (authorised to take exams)  
> Siebenhüner, Bernd (Module counselling)  
> Wegner, Alkje (Module counselling)  
> Müller, Werner Joachim (Module counselling)  
> Siebenhüner, Bernd (module responsibility) |
| Prerequisites              | students:  
> have basic information about national and european environmental and sustainability governance  
> describe the history of national and european environmental and sustainability governance  
> reflect upon central principles, instruments, players and strategies in environmental and sustainability governance  
> analyze selected topics of environmental and sustainability governance based upon central principles, instruments, players and strategies |
| Skills to be acquired in this module | introduces:  
> Introduction to environmental politics - Politics, Political Science, Policy Analysis  
> Environment – Terms and Concepts - Historical Foundations of Environmental Politics  
> Actors, institutions and governance structures; Actors in Environmental Policy  
> Socio-ecological systems framework  
> Environmental Policy in Germany  
> Environmental Policy in the European Union  
> Steering and principles in environmental policy  
> Instruments in environmental policy  
> Policy process and environmental policy  
> Multilevel and reflexive governance - Multilevel governance  
> International environmental governance  
> Science-Policy Interface |
<p>| Recommended reading        | <a href="https://www.uni-oldenburg.de/wire/">https://www.uni-oldenburg.de/wire/</a> |
| Languages of instruction   | German, English                           |
| Duration (semesters)       | 1 Semester                                |
| Module frequency           | halbjährlich                              |
| Module capacity            | unlimited                                 |
| Module level               | 11 / 120                                  |</p>
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wir905 - Environmental Sciences

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<td>Klenke, Thomas (module responsibility)</td>
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**Prerequisites**

The Introduction to processes and systems of the dynamic Earth constituting the foundation for sustainable management is presented to produce:

- Knowledge about processes and systems relevant for sustainable management using knowledge and methodologies from all science disciplines in an integrated way.
- Skills in elaborating on complex tasks of environmental management using an interdisciplinary science based approach and to present related findings to non-expert audiences.
- Lecture room presentations and discussions based on slides and black/white board usage.

Short films will be presented to endorse the intended achievements.

**Module contents**

**Lecture: Understanding the Bioplanet Earth (2 contact hours/week)** (Vorlesung, 2 LVs: Aufbau und Entwicklungsgeschichte der Erde; Dynamik der Erde: Kreisläufe und Evolutionsprozesse; Lebensraum Boden; Wasser; Klima; Biodiversität; Lagerstätten und Ressourcenerschließung; Ökosysteme der Erde.)

Seminar: Cases in Understanding the Bioplanet Earth (2 contact hours/week)

Introduction to key processes and to systems dynamics of the Earth representing a planet being alive driven by external and internal forces interacting with biological activities. Topics of the lecture comprise introductions to the evolution of the universe and solar systems, the differentiation and subsystems of the Earth’s interior, minerals and rock cycle, soils, ocean and climate, evolution and biodiversity, organisms and physiology, water and element cycling plus insights into ecosystems under different climate conditions. The cases are selected in order to (i) highlight certain principles and theories in geo- and biosciences and (ii) exemplify critical objects and phenomena in modern practice of resource and environmental management. This module consists of topical programmes of the Master Cluster Environment and Sustainability.

**Recommended reading**

A 'foundation material pool' will be made available online for students and lecturers providing paper books, reports and media covering the topics of the lecture and the cases.

**Links**

- **Language of instruction**: English
- **Duration (semesters)**: 1 Semester
- **Module frequency**: jährlich
- **Module capacity**: unlimited
- **Module level**:

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

- **Examination**: Examination times
- **Type of examination**: Presentation/discussion and written report on a case;

**Final exam of module**

By the end of the lecture period.
### Examination Times

<table>
<thead>
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<th>Type of course</th>
<th>Comment</th>
<th>SWS</th>
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**Total module attendance time**: 56 h
**Multivariate Statistics**

**Module label**: Multivariate Statistics

**Module abbreviation**: wir808

**Credit points**: 6.0 KP

**Workload**: 180 h

**Applicability of the module**
- Master's programme Business Administration: Management and Law (Master) > Basismodule
- Master's Programme Business Informatics (Master) > Module der Wirtschafts- und Rechtswissenschaften (Master)
- Master's Programme Computing Science (Master) > Module aus anderen Studiengängen
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules

**Responsible persons**
- Stecking, Ralf Werner (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

**Prerequisites**

**Skills to be acquired in this module**
- With successful completion of the course, students shall:
  - be aware of and be able to evaluate advanced methods of multivariate data analysis.
  - be able to select adequate methods in relevant fields of application, like prediction, classification, and segmentation analysis.
  - be able to run computer-aided analyses and to interpret the results properly.

**Module contents**
- Various methods of quantitative data analysis such as:
  - Linear Regression,
  - Logistic Regression,
  - Linear Discriminant Analysis,
  - Principal Component Analysis,
  - Feature selection and evaluation methods.

**Recommended reading**

**Links**
- **Language of instruction**: German
- **Duration (semesters)**: 1 Semester
- **Module frequency**: jährlich
- **Module capacity**: unlimited
- **Module level**:
- **Type of module**:
- **Teaching/Learning method**:
- **Previous knowledge**
- **Examination times**
- **Type of examination**
- **Final exam of module**: at the end of the semester
- **Type of course**: Comment
- **SWS**
- **Frequency**
- **Workload of compulsory attendance**

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<td>SWS</td>
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wir809 - Econometrics

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- Bachelor's Programme Economics and Business Administration (Bachelor) > Studienrichtung Volkswirtschaftslehre
- Bachelor's Programme Sustainability Economics (Bachelor) > Aufbaumodule
- Master's programme Business Administration: Management and Law (Master) > Basismodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules

- Lehrenden, Die im Modul (authorised to take exams)
- Bitzer, Jürgen (module responsibility)

- Keine

The students are able to:
- apply the basic econometric methods,
- follow, evaluate and interpret basic empirical studies,
- apply basic econometric methods in empirical studies,
- use the econometric software STATA.

The module consists of a lecture and an exercise. In the module the basic statistical principles are recapitulated, deepens the knowledge of the multiple regression and introduce the students to the advanced topics of panel econometrics, binary dependent variables, instrumental variable estimation and time series econometrics.


https://www.uni-oldenburg.de/wire/

German

1 Semester

jährlich

unlimited


Type of module

Teaching/Learning method

Previous knowledge

Examination

Examination times

Type of examination

Final exam of module

end of the semester

written exam

Type of course

Comment

SWS

Frequency

Workload of compulsory attendance

| Lecture | 2 | 28 |
| Exercises | 2 | 28 |

Total module attendance time

56 h
### wir894 - Econometrics of Policy Evaluation

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| **Applicability of the module** | - Master Applied Economics and Data Science (Master) > Empirical Methods  
- Master's programme Business Administration: Management and Law (Master) > Basismodule  
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules |
| **Responsible persons** | - Huse, Cristian (module responsibility)  
- Huse, Cristian (Module counselling) |
| **Prerequisites** | |
| **Skills to be acquired in this module** | Be able to conceptually understand and apply key empirical methods used by any economist (and other professionals) in the evaluation of policies. Be able to perform and critically evaluate an empirical analysis. |
| **Module contents** | Econometric methods (Causality, Randomization, Regression discontinuity, Difference-in-differences, topics in Microeconometrics); applications. |
| **Language of instruction** | English |
| **Duration (semesters)** | 1 Semester |
| **Module capacity** | 60 |
| **Module level** | |
| **Type of module** | |
| **Teaching/Learning method** | |
| **Previous knowledge** | |
| **Examination** | Examination times | Type of examination |
| **Final exam of module** | At the end of the lecture period | Portfolio |
| **Type of course** | Lecture |
| **SWS** | 4 |
| **Frequency** | SoSe oder WiSe |
| **On-site workload** | 56 h |
### Additional Modules

**inf651 - Environmental Management Information Systems I**

<table>
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<th>Environmental Management Information Systems I</th>
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<tr>
<td>Module abbreviation</td>
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<tr>
<td>Credit points</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
</tr>
</tbody>
</table>

**Applicability of the module**

- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM - interdisziplinär
- Master's Programme Business Informatics (Master) > Akzentsetzungsmodul Bereich Wirtschaftsinformatik
- Master's Programme Business Informatics (Master) > Akzentsetzungsmodul der Informatik
- Master's Programme Computing Science (Master) > Angewandte Informatik
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**

- Marx Gómez, Jorge (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

**Prerequisites**

No participant requirement

**Skills to be acquired in this module**

- This module completes the knowledge and abilities gained in the field of Environmental Informatics and it creates a strong reference to up to date topics in the field of sustainability. The content taught in this module can directly be applied in an upcoming study and professional career.

**Professional competence**

The students:

- are able to classify and explain the sustainability paradigm
- are aware of the current status of sustainability reporting
- are able to define and to model material flows
- have obtained know-how in the field of corporate environmental management information systems (CEMIS)

**Methodological competence**

The students:

- implement CEMIS
- apply different techniques and methods to case studies
- develop new case studies in teams

**Social competence**

The students:

- are supposed to work in teams and therefore have to identify working packages and have to take on responsibility for the jobs assigned to them
- present and discuss their own results with the team and the other members of the course

**Self-competence**

The students:

- learn about their own limitations and learn to accept criticism in order to strengthen their own abilities

**Module contents**

This course teaches methods, approaches and techniques in the field of information processing in order to support solutions to problems that arise from companies' impact on the environment. In particular, ICT supported approaches of production-integrated environmental protection, environmental controlling and reporting are introduced and discussed. In order to enable the integration of such approaches into environmental protection, environmental management and its systems are taught as well.

The content in detail:

- environmental management as a basis for sustainability
- sustainability and material flow management
- strategic environmental management
- eco-controlling life cycle
- characteristics and system architectures of CEMIS
- standard software systems
- environmental accounting systems

**Recommended reading**


<table>
<thead>
<tr>
<th>Links</th>
<th><a href="http://www.wi-ol.de">http://www.wi-ol.de</a></th>
</tr>
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<tbody>
<tr>
<td>Language of instruction</td>
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inf659 - Environmental Management Information Systems II

Module label: Environmental Management Information Systems II
Module abbreviation: inf659
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM - interdisziplinär
- Master's Programme Business Informatics (Master) > Akzentsetzungsmodul Bereich Wirtschaftsinformatik
- Master's Programme Business Informatics (Master) > Akzentsetzungsmodul der Informatik
- Master's Programme Computing Science (Master) > Angewandte Informatik
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons:
- Marx Gómez, Jorge (module responsibility)
- Lehrende, Die im Modul (authorised to take exams)

Prerequisites:
No participant requirement

Skills to be acquired in this module:
This course aims at examining emerging research questions in the field of corporate environmental management information systems (CEMIS). After finishing this course, the students will have extensive knowledge regarding Business Environmental Informatics. In addition, they will be aware of recent research topics and challenges as well as relevant software solutions and practical projects.

Professional competence:
The students:
- will obtain extensive knowledge in the field of CEMIS
- know emerging research questions and challenges as well as software solutions and projects

Methodological competence:
The students:
- find their own solutions or apply already existing approaches to new and unsolved questions in the field of CEMIS
- capture required data, analyse it and present it to their team or the whole group

Social competence:
The students:
- are supposed to work in teams and therefore have to identify working packages and have to take on responsibility for the jobs assigned to them
- present and discuss their own results with the team and the other members of the course

Self-competence:
The students:
- learn about their own limitations and learn to accept criticism in order to strengthen their own abilities

Module contents:
A strong social pressure forces enterprises to question their current way of implementing their business and to include different aspects of sustainability into their strategies and operational actions. Such a rethinking of one's business is supported by corporate environmental management information systems. Such systems aim at optimising the energy and resource usage, emission and waste minimisation as well as production integrated environmental protection. Of course they support the fulfillment of legal requirements such as waste management or hazardous material handling.

The module will cover:
- recent and emerging research questions and topics related to the field of CEMIS as well as Business Environmental Informatics.
- discussion and hands-on experience of standard software systems and newly established solutions.
• applying the knowledge obtained to the definition of new as well as on solving new case studies.

Recommended reading

• Marx Gómez, Jorge, Scholtz, Brenda (Hrsg.) (2016): Information Technology in Environmental Engineering. Springer International Publishing
• Möller, A. (2000): Grundlagen stoffstrombasierter Betrieblicher Umweltinformationssysteme. Projekt Verlag
• Rautenstrauch, C. (1999), Betriebliche Umweltinformationssysteme, Springer-Verlag, Berlin

Links

http://www.wi-ol.de

Languages of instruction

German, English

Duration (semesters)

1 Semester

Module frequency

annual

Module capacity

unlimited

Reference text

Type and language of program will be announced prior to the beginning of the course

Module level

Type of module

Teaching/Learning method

1VL + 1Ü or 1S

Previous knowledge

none

Examination

Examination times

Type of examination

Final exam of module

Usually 2 weeks after the end of the lecture period Seminar paper and presentation or term paper

Type of course

Comment

SWS

Frequency

Workload of compulsory attendance

Lecture

2

WiSe

28

Exercises

2

WiSe

28

Total module attendance time

56 h
**Module label**  
Practice of Nature Conservation

**Module abbreviation**  
lök210

**Credit points**  
6.0 KP

**Workload**  
180 h

**Applicability of the module**
- Master's Programme Landscape Ecology (Master) > Vertiefungsmodule zweites Fachsemester
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Water and Coastal Management (Master) > Science

**Responsible persons**
- Buchwald, Rainer (module responsibility)
- Mose, Ingo (module responsibility)
- Buchwald, Rainer (Module counselling)
- Mose, Ingo (Module counselling)
- Buchwald, Rainer (authorised to take exams)
- Dörfler, Inken (authorised to take exams)
- Mose, Ingo (authorised to take exams)
- Fartmann, Thomas (authorised to take exams)
- Janßen, Hans-Joachim, Dipl.-Ing. (authorised to take exams)

**Prerequisites**
Completed ecology-oriented Bachelor course

**Skills to be acquired in this module**
With the successful completion of the module the students will gain a general and advanced knowledge of crucial approaches and instruments of nature conservation in Germany and Europe, especially of the implementation of large protected areas (NSG, biosphere reserve, national park etc.), of maintenance/management projects and measures as well as of approaches to their integration into nature conservation and regional development strategies (via agriculture, tourism etc.) in co-operation with national park administrative authorities and other relevant actors. Additionally, the module gives basic skills in developing ecological connectivity systems (example dragonflies) as well as in developing and implementing approaches to ecological planning inside and outside the nature reserves.

**Ranking/position of the module within the course of studies:** The module focuses on problems, methods, results, and analyses relevant to nature conservation and refers to corresponding issues of modules in Bachelor courses as well as of basic modules in Master courses of Landscape Ecology.

**Module contents**
- a) Seminar "Protected areas and regional development": Survey of the most important types of large protected areas in Europe as well as current concepts of integrating the purposes of conservation with the tasks of regional development especially in peripheral rural areas
- b) Seminar "Introduction to the German Nature Conservation Law": This course deals with some parts of the Nature Conservation Law of Germany and Lower Saxony and discusses their relevance to the actual Nature Conservation policy in Northwest-Germany.
  - this seminar takes place in the winter term
- c) Field course "Habitat connectivity": Theory of ecological connectivity including causes and impacts of fragmentation and isolation in nature-near biotopes; investigation of migration and dispersal behaviour in selected dragonfly species of ditch systems
- d) Excursion "Protected areas": Presentation of a selected large protected area in Germany or Europe especially considering geographical, floristic, faunistical, historical, agricultural, and nature conservation aspects as well as aspects of landscape and economics

**Recommended reading**
- Alder, G.

**Links**
https://www.uni-oldenburg.de/vegetationskunde/

**Languages of instruction**
German, English

**Duration (semesters)**
1 Semester
<table>
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<td>Examination</td>
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<td>Before the end of the module</td>
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<tr>
<td></td>
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<td></td>
<td>6 CP = Paper (in the course of a seminar) or excursion report or assignment</td>
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<tr>
<td>Module label</td>
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<td>Workload</td>
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**Applicability of the module**

- Master's Programme Landscape Ecology (Master) > Vertiefungsmodule drittes Fachsemester
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Water and Coastal Management (Master) > Planning

**Responsible persons**

- Mose, Ingo (module responsibility)
- Mose, Ingo (Module counselling)
- Mose, Ingo (authorised to take exams)
- Klenke, Thomas (authorised to take exams)
- Kramer, Nadine (authorised to take exams)
- Schaal, Peter (authorised to take exams)

**Prerequisites**

- Good command of English

**Skills to be acquired in this module**

Presentation and critical reflection of crucial demands of a sustainable spatial development in selected fields of activities especially considering rural development. Comparison of suitable case studies in a European context. Knowledge into central control instruments of structural, regional, and agricultural policy on a national as well as on a European level. Considering specific demands of spatial development in the context of political and social processes of Europeanization.

**Recommended reading**

Schmied, D. (ed.): Winning and losing. The changing geography of Europe’s rural areas.

Additional literature will be announced in the seminars.

Links
https://www.uni-oldenburg.de/en/geo/

Languages of instruction
German, English

Duration (semesters)
1 Semester

Module frequency
jährlich

Module capacity
unlimited

Module level

Type of module

Teaching/Learning method

Previous knowledge

Examination
Examination times
Type of examination

Final exam of module
Before the end of the module
6 CP – Report or assignment

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Total module attendance time
140 h
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**Applicability of the module**
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**

**Prerequisites**

**Skills to be acquired in this module**

**Module contents**

**Recommended reading**

**Links**

**Languages of instruction**

**Duration (semesters)** | 1 Semester

**Module frequency**

**Module capacity** | unlimited

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

**Examination times**

**Type of examination**

**Final exam of module**

**Type of course** | Seminar

**SWS**

**Frequency**

**On-site workload** | 0 h
**wir809 - Econometrics**

**Module label**  
Econometrics

**Module abbreviation**  
wir809

**Credit points**  
6.0 KP

**Workload**  
180 h

**Applicability of the module**
- Bachelor's Programme Economics and Business Administration (Bachelor) > Studienrichtung Volkswirtschaftslehre  
- Bachelor's Programme Sustainability Economics (Bachelor) > Aufbaumodule  
- Master's programme Business Administration: Management and Law (Master) > Basismodule  
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules  
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules

**Responsible persons**
- Lehrenden, Die im Modul (authorised to take exams)  
- Bitzer, Jürgen (module responsibility)

**Prerequisites**
Keine

**Skills to be acquired in this module**
The students are able to:  
- apply the basic econometric methods,  
- follow, evaluate and interpret basic empirical studies,  
- apply basic econometric methods in empirical studies,  
- use the econometric software STATA.

**Module contents**
The module consists of a lecture and an exercise. In the module the basic statistical principles are recapitulated, deepens the knowledge of the multiple regression and introduce the students to the advanced topics of panel econometrics, binary dependent variables, instrumental variable estimation and time series econometrics.

**Recommended reading**


**Links**
https://www.uni-oldenburg.de/wire/

**Language of instruction**
German

**Duration (semesters)**  
1 Semester

**Module frequency**  
jährlich

**Module capacity**  
unlimited

**Reference text**

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Final exam of module**

<table>
<thead>
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<tr>
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<td>Exercises</td>
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**Total module attendance time**  
56 h
## wir821 - International Trade, Production and Change

<table>
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<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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### Applicability of the module
- kein Abschluss European Studies in Global Perspectives > Society, Economy and Politics
- Master Applied Economics and Data Science (Master) > Economics
- Master's programme Business Administration: Management and Law (Master) > Kernmodule CHI
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

### Responsible persons
- Trautwein, Hans-Michael (module responsibility)
- Trautwein, Hans-Michael (authorised to take exams)
- Bitzer, Jürgen (authorised to take exams)
- Poppitz, Philipp (authorised to take exams)
- Trautwein, Hans-Michael (Module counselling)

### Prerequisites
- keine

### Skills to be acquired in this module
- Understanding of trade relations, international factor movements and corresponding balance-of-payments mechanisms.
- Capability to discuss structural change in global trade and productions in terms of formal models and case studies.
- Understanding of the causes and alternative strategies of economic integration in regional blocs.
- Understanding of the causes and alternative strategies of economic transformation in emerging markets.
- Ability to research data and evaluate the literature on specific aspects of international trade, production and structural change.

### Module contents
The lectures and seminar papers address issues in the following subfields:

- international trade,
- international trade policies and regimes,
- geographical economics,
- foreign direct investment,
- labour migration,
- fragmentation of production,
- regulations of international trade and factor movements,
- development strategies,
- regional integration.

### Recommended reading
Further references to specific topics and current literature will be given in the events.

### Links

<table>
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### Reference text
- Das Seminar wird in der Form eines Blockseminars abgehalten.
- Es gibt eine Vorbesprechung Anfang des Semesters, in der die Themen vergeben werden.
<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>Examination</td>
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<td>during term</td>
</tr>
<tr>
<td>Type of course</td>
<td>Comment</td>
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</table>
wir826 - Sectoral, Functional and Institutional Approaches to Marketing

Module label: Sectoral, Functional and Institutional Approaches to Marketing

Module abbreviation: wir826

Credit points: 6.0 KP

Workload: 180 h

Applicability of the module:
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule UF - BWL
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons:
- Alavi, Sascha (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

Prerequisites:

Skills to be acquired in this module:
The students should be enabled
- to adapt the marketing concept to sectoral, functional and institutional specifics,
- to apply specific concepts and methods of marketing in a problem-oriented way and to be able to reflect their conditions and limitations,
- to develop and present your own conceptual designs in a team.

Module contents:
Marketing initially started as a producer-oriented concept and in recent years has developed as universal approach to influence market transactions. Against this background institutional, functional and sectoral fields of application inspired the formulation of sophisticated marketing approaches, like e.g. marketing of non-profit-organisations, strategic marketing, or service marketing. The course presents the specific nature of the different fields of application and relevant consequences for marketing planning. Given the recent inflation of “hyphenated conceptions” of marketing, a reasoned diagnosis as to marketing's core identity is put forth. To this end, perspectives of transfer and integration between the approaches will be developed, that measure up to state-of-the-art theoretical as well as practical demands towards marketing as a universal market-oriented way of managing businesses. This course is divided into a preparatory seminar and an educational workshop towards the end of the term. The latter unit allows case study and role play as well as the presentation student work and boosts social competences irrespective of subject matter.

Recommended reading:

Links:
www.uni-oldenburg.de/marketing

Language of instruction: German

Duration (semesters): 1 Semester

Module frequency: jährlich

Module capacity: unlimited

Reference text:
The module consists of a preparatory period (approximately 4 sessions on campus) as well as one educational workshop outside of Oldenburg

Module level:

Type of module:

Teaching/Learning method:

Previous knowledge:

Examination:

Examination times:

Type of examination:

Final exam of module:
during term

Type of course:

Comment
SWS
Frequency
Workload of compulsory attendance

<table>
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Links:
www.uni-oldenburg.de/marketing
<table>
<thead>
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<th>Comment</th>
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<th>Frequency</th>
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<td></td>
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<td></td>
<td>56 h</td>
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wir829 - Development directions in Marketing Research

Module label | Development directions in Marketing Research
---|---
Module abbreviation | wir829
Credit points | 6.0 KP
Workload | 180 h

Applicability of the module
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule UF - BWL
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons
- Alavi, Sascha (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

Prerequisites
Successful completion of the entrance examination

Skills to be acquired in this module
Upon completion of the module, students will be able to:
- apply specific competences to strategic research in marketing
- classify research strategies in marketing according to their meta-theoretical considerations
- estimate research strategies' claims to knowledge and their limitations
- formulate interdisciplinary research strategies aligning competences of empirical methods with the application of theory
- develop own conceptual sketches within teams and to present them

Module contents
How is knowledge generated within the scholarly discipline of marketing? This question confronts the field of marketing with central paradigmatic assumptions. The course begins to solve this puzzle on the basis of a historical analysis of the marketing concept's development. Different scientific standpoints in marketing theory and empirical investigation are evaluated against the light of recent developments in markets and society. The current paradigms of consumption research and marketing research's basic standing in the philosophy of science are intensely treated. This also entails reflecting on the opportunities that alternative trends, e.g. a humanistic paradigm, hold in store for marketing research. The course is divided into a preparatory seminar and an educational workshop towards the end of the term. The latter unit allows case study and role play as well as the presentation student work and boosts social competences irrespective of subject matter.

Recommended reading
Further literature to be announced at the start of the term.

Links
www.uni-oldenburg.de/marketing

Language of instruction
German

Duration (semesters)
1 Semester

Module frequency
jährlich

Module capacity
unlimited

Reference text
The module consists of a preparatory period (approximately 4 sessions on campus) as well as one educational workshop outside of Oldenburg

Module level

Type of module

### Teaching/Learning method

#### Previous knowledge

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<th>Type of examination</th>
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**Total module attendance time** 56 h
wir878 - Public Economics and Market Design

Module label: Public Economics and Market Design
Module abbreviation: wir878
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master Applied Economics and Data Science (Master) > Economics
- Master's programme Social Sciences (Master) > Wahlplichtmodule anderer Institute und Departments
- Master’s Programme Sustainability Economics and Management (Master) > Additional Modules
- Master’s Programme Water and Coastal Management (Master) > Socioeconomics

Responsible persons:
- Lehrenden, Die im Modul (Module counselling)
- Helm, Carsten (Module counselling)
- Helm, Carsten (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

Prerequisites:
none

Skills to be acquired in this module:
The students are able
- to understand sources of market failures and government failures
- understand taxing and spending activities of governments
- understand the distinction between normative and positive perspectives in the evaluation of government policy
- to apply economic methods to current issues in public economics
- present their research result in the form of written papers and oral presentations

Module contents:
The course covers key concepts of public economics, which studies how government taxing and spending activities affect the economy – economic efficiency and the distribution of income and wealth.

Lecture: After introducing the theory and methodology of public economics, we discuss a historical and theoretical overview of the public sector. We then focus on departures from efficiency (especially asymmetric information), taxation issues (including tax evasion, fiscal federalism and tax competition among independent jurisdictions), and the intertemporal issue of social security (especially pension system).

Seminar: covers current issues in public economics, e.g. reform of health care or pension system.

Recommended reading:

Links:
http://www.fiwi.uni-oldenburg.de/

Languages of instruction:
German, English

Duration (semesters):
1 Semester

Module capacity:
jährlich

Reference text:
The seminar will be conducted as a block seminar.

Module level:

Type of module:

Previous knowledge:
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**Total module attendance time** 56 h
**wir915 - Renewable Energy Systems**

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<tr>
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<td>Workload</td>
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**Applicability of the module**
- Master's Programme Computing Science (Master) > Module aus anderen Studiengängen
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**
- Peinke, Joachim (authorised to take exams)
- Knecht, Robin (authorised to take exams)
- Hölling, Michael (authorised to take exams)
- Holtorf, Hans-Gerhard (authorised to take exams)
- Golba, Michael (authorised to take exams)
- Torio, Herena (authorised to take exams)
- Peinke, Joachim (module responsibility)
- Siebenhüner, Bernd (module responsibility)
- Hölling, Michael (module responsibility)

**Skills to be acquired in this module**
Students learn details about the wide range of renewable energy sources and renewable energy technology as well as their background story.

**Module contents**
- Energy basics, energy resources, global energy overview, energy scenarios, techno-economic aspects of energy use (external costs, life cycle analysis,...), environmental effects of energy use (greenhouse gas emissions, ozone,...), conventional and advanced power plant technologies, power distribution, advanced storage technologies, solar thermal power plants, geothermal and ocean energies.

**Recommended reading**

**Languages of instruction**
- German, English

**Duration (semesters)**
- 1 Semester

**Module frequency**
- halbjährlich

**Module capacity**
- unlimited

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**
- Examination times

**Final exam of module**
- By the end of the lecture period.

**Term paper or written exam.**

**Type of course**
- Seminar

**SWS**

**Frequency**

**On-site workload**
- 0 h
**wir919 - Topics in Sustainability Economics and Management I**

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<td>• Master's programme Business Administration: Management and Law (Master) &gt; Schwerpunktmodule NM-BWL&lt;br&gt;• Master's programme Business Administration: Management and Law (Master) &gt; Schwerpunktmodule RdW - BWL&lt;br&gt;• Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules&lt;br&gt;• Master's Programme Water and Coastal Management (Master) &gt; Socioeconomics</td>
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<tr>
<td>Responsible persons</td>
<td>• Siebenhüner, Bernd (authorised to take exams)&lt;br&gt;• Sievers-Glotzbach, Stefanie (authorised to take exams)&lt;br&gt;• Wolter, Hendrik (authorised to take exams)&lt;br&gt;• Siebenhüner, Bernd (module responsibility)</td>
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<tr>
<td>Prerequisites</td>
<td></td>
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<tr>
<td>Skills to be acquired in this module</td>
<td>Learning about sustainability, economics and management in different scientific contexts.&lt;br&gt;Understanding the complexity of sustainability, economics and management.&lt;br&gt;Discussing topics of sustainability, economics and management with students from different scientific disciplines.&lt;br&gt;Ability to present and evaluate different concepts of sustainability, economics and management</td>
</tr>
<tr>
<td>Module contents</td>
<td>This module consists of two seminars (2 weekly contact hours per seminar) dealing with selected topics from the broad field of sustainability, economics and management. Out of a variety of several seminars the student can choose two most suitable seminars depending on individual choices. The seminars and the seminar contents vary each semester to provide topics relevant for current discussions within the broad field of sustainability, economics and management. Intentionally seminars from several research fields and faculties are offered to also combine different point of views and to bring students from different scientific backgrounds together. The seminars provide the possibilities for inter- and transdisciplinary exchange and discussions.</td>
</tr>
<tr>
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<td>Depending on the topic and content of each seminar</td>
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**wir930 - Open Module**

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<td>Applicability of the module</td>
<td>Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
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</tbody>
</table>
| Responsible persons   | • Siebenhüner, Bernd (Module counselling)  
                         • Lehrenden, Die im Modul (authorised to take exams)  
                         • Wolter, Hendrik (authorised to take exams)  
                         • Siebenhüner, Bernd (module responsibility) |

**Prerequisites**

**Skills to be acquired in this module**

**Module contents**

**Recommended reading**

**Links**

**Languages of instruction**

**Duration (semesters)** | 1 Semester

**Module frequency**

**Module capacity** | unlimited

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination** | Examination times | Type of examination

| Final exam of module | KL |

**Type of course** | Seminar

**SWS**

**Frequency**

**On-site workload** | 0 h
**wir932 - International Regulatory and Competition Policy**

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<td><strong>Applicability of the module</strong></td>
<td>[Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules]</td>
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<td><strong>Responsible persons</strong></td>
<td>Huse, Cristian (module responsibility)</td>
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<td><strong>Skills to be acquired in this module</strong></td>
<td>The aim of the course is to acquire an understanding of key issues of competition theory and competition policy. This comprises the fundamentals of industrial economics, the tradeoff between market power and efficiency, and the practice of competition policy in Europe.</td>
</tr>
<tr>
<td><strong>Module contents</strong></td>
<td>The module consists of two courses. Course A deals with the theory of monopoly, the theory of oligopoly, cartels and market entry and the welfare analysis of market structure. Course B deals with topics in international regulatory and competition policy, especially monopoly regulation, economies of scale vs. market power in transnational markets, aims and instruments of European regulatory and competition policy.</td>
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**Links**

**Language of instruction** | English |
**Duration (semesters)**    | 1 Semester |
**Module frequency**        | jährlich |
**Module capacity**         | unlimited |

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

**Examination times**

**Type of examination**

**Final exam of module**

By the end of the lecture period

Portfolio comprising 2 short written tests (20 minutes each) and the presentation of an essay.

**Type of course**

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<th>Comment</th>
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<th>Frequency</th>
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**Total module attendance time**

84 h
### wir934 - Business French

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<td>Workload</td>
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#### Applicability of the module

- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Environmental Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Environmental Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Intercultural Education and Counselling (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Intercultural Education and Counselling (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Sustainability Economics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Sustainability Economics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Art and Media (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Art and Media (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Politics-Economics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Politics-Economics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Protestant Theology and Religious Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Protestant Theology and Religious Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Slavic Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Slavic Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Special Needs Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Special Needs Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Sport Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Sport Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Technology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Technology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Fach-Bachelor Pädagogisches Handeln in der Migrationsgesellschaft (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Fach-Bachelor Pädagogisches Handeln in der Migrationsgesellschaft (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons
Prerequisites
Skills to be acquired in this module
Module contents
Recommended reading
Links
Languages of instruction
Duration (semesters) 1 Semester
Module frequency halbjährlich
Module capacity unlimited
Module level
Type of module
Teaching/Learning method
Previous knowledge

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Type of course Seminar

SWS

Frequency

On-site workload 0 h
wir935 - Business Spanish

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**Applicability of the module**

- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Environmental Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Environmental Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Intercultural Education and Counselling (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Intercultural Education and Counselling (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Sustainability Economics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Sustainability Economics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Art and Media (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Art and Media (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Dutch Linguistics and Literary Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Dutch Linguistics and Literary Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Economic Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Economic Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Elementary Mathematics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Elementary Mathematics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme English Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme English Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Gender Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Gender Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme General Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme General Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme German Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme German Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme History (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme History (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-subject bachelor's programme Low German (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-subject bachelor's programme Low German (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Material Culture: Textiles (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Material Culture: Textiles (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Music (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Music (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Philosophy / Values and Norms (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Philosophy / Values and Norms (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
### Responsible persons
- Engelhardt, Maike (module responsibility)
- Sanchez Gonzalez, Dolores (authorised to take exams)

### Further responsible persons
Prüfungsberechtigt sind die unterrichtenden Dozenten.

### Prerequisites
Teilnahme am Einstufungstest des Sprachenzentrums

### Skills to be acquired in this module
Sprachliche Kompetenzerweiterung im Bereich Wirtschaftsspanisch zur Vorbereitung von Studienaufenthalten oder Praktika im spanischsprachigen Ausland.

### Module contents
Vermittlung von Lese-, Hör-, Sprech- und Schreibkompetenzen in spanischer Sprache im Kontext von Wirtschaft und Umwelt

### Recommended reading
wird im Kurs bekannt gegeben

### Links
https://uol.de/sprachenzentrum/sprachen/wirtschaftssprachen

### Language of instruction
Spanish

### Duration (semesters)
1 Semester

### Module frequency
halbjährlich

### Module capacity
25

### Reference text
folgt

### Module level

### Type of module
Teaching/Learning method

### Previous knowledge

### Examination
Examination times
Type of examination

### Final exam of module
KL

### Type of course
Seminar

### SWS
4

### Frequency
SoSe und WiSe

### On-site workload
56 h
The main target of the "Eco-Venturing" module is to develop entrepreneurial skills for the development and implementation of environmental innovations and sustainable business ideas. These include:

- the ability to identify new solution needs in the context of sustainable development and the sustainable development goals set by the United Nations,
- Knowledge and skills for the entrepreneurial development and implementation of innovative solutions,
- Knowledge and skills for systematically combining economic (Eco-nomical) and ecological (Eco-logical) objectives and
- the ability to strategically develop "green" business areas and markets.

The entrepreneurial development and implementation of environmental innovations can relate both to the establishment of new companies and organisations and to the development of new solutions and business ideas within the framework of established companies and organisations (corporate venturing).

The main focus of the Eco-Venturing module is the development of new or established business start-up concepts. Under of guidance of their lecturer, participants will work together with selected regional business partners who are both economically successful and contribute to the protection of the environment and the climate, to promote such start-up concepts. What these concepts have in common is that they address the issue of sustainability.
<table>
<thead>
<tr>
<th>Type of course</th>
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<th>SWS</th>
<th>Frequency</th>
<th>Workload of compulsory attendance</th>
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wir939 - Topics in Sustainability Economics and Management II

<table>
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<tr>
<td>Credit points</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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Applicability of the module
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Water and Coastal Management (Master) > Socioeconomics

Responsible persons
- Siebenhüner, Bernd (authorised to take exams)
- Sievers-Glotzbach, Stefanie (authorised to take exams)
- Wolter, Hendrik (authorised to take exams)
- Siebenhüner, Bernd (module responsibility)

Prerequisites
- No

Skills to be acquired in this module
- Learning about sustainability, economics and management in different scientific contexts.
- Understanding the complexity of sustainability, economics and management.
- Discussing advanced topics of sustainability, economics and management with students from different scientific disciplines.
- Ability to present and evaluate different concepts of sustainability, economics and management.

Module contents
- This module consists of two seminars (2 weekly contact hours per seminar) dealing with selected topics from the broad field of sustainability, economics and management. Out of a variety of several seminars the student can choose two most suitable seminars depending on individual choices. The seminars and the seminar contents vary each semester to provide topics relevant for current discussions within the broad field of sustainability, economics and management. Intentionally seminars from several research fields and faculties are offered to also combine different point of views and to bring students from different scientific backgrounds together. The seminars provide the possibilities for inter- and transdisciplinary exchange and discussions.

Recommended reading
- Depending on the topic and content of each seminar

Links
- Language of instruction: English
- Duration (semesters): 1 Semester
- Module frequency: jährlich
- Module capacity: unlimited

Module level
- Type of module: Seminar
- Teaching/Learning method: On-site workload: 56 h

Previous knowledge
- Examination: To be announced during the seminar
- Type of examination: Term paper, presentation or oral exam
- Type of course: Seminar

SWS
- 4

Frequency
- On-site workload: 56 h
**Module label**  
Business and Legal Chinese I

**Module abbreviation**  
wir863

**Credit points**  
6.0 KP

**Workload**  
180 h

**Applicability of the module**
- Master's programme Business Administration: Management and Law (Master) > Ergänzungsmodul - Rechts- und Wirtschaftssprache
- Master's programme Business Administration: Management and Law (Master) > Kernmodule CHI
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**
- Lehrenden, Die im Modul (authorised to take exams)
- Wang, Hongrui (Module counselling)
- Trautwein, Hans-Michael (module responsibility)

**Prerequisites**
At the end of the course, successful students:
- communicate in everyday life and work environments,
- recognize and understand 200 characters and words,
- understand frequently used expressions,
- understand simple meanings in familiar contexts, clear instructions, standard questions and informations when pronounced slowly and clearly,
- pose and answer questions in familiar contexts,
- provide personal information in spoken and written form,
- write about themselves in simple meanings.

**Module contents**
- Thematic vocabulary concerning personal information, basics of everyday life, shopping, simple standard transactions etc.
- Reading: simple dialogues and texts from everyday life
- Listening: short and simple dialogues from everyday life
- Speaking: short dialogues in everyday life situations
- Writing: short texts on personal information, questionnaires and forms
- Self-learning: work with the portfolio, individual training

**Recommended reading**

**Languages of instruction**  
English, Chinese

**Duration (semesters)**  
1 Semester

**Module frequency**  
jährlich

**Module capacity**  
unlimited

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

**Examination times**

**Type of examination**

**Final exam of module**

last week of term
oral exam, written exam or portfolio

**Type of course**

Seminar

**SWS**
4

**Frequency**

WiSe

**On-site workload**

56 h
### wir880 - Marine & Maritime Law

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<td>- Master's programme Business Administration: Management and Law (Master) &gt; Kernmodule CHI</td>
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<td>- Master's programme Business Administration: Management and Law (Master) &gt; Schwerpunktmodule NM-Recht</td>
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<td>- Master's programme Business Administration: Management and Law (Master) &gt; Schwerpunktmodule RdW - Recht</td>
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<tr>
<td></td>
<td>- Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
</tr>
<tr>
<td></td>
<td>- Master's Programme Water and Coastal Management (Master) &gt; Planning</td>
</tr>
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</table>

**Responsible persons**
- Godt, Christine (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

**Prerequisites**
- Die Studierenden erwerben Kenntnisse des maritimen (zivilistischen) und des marinen (öffentlichcn) Seerechts und deren Verschränkung in den Rechtsebenen und mit dem kontinentalen Wasserrecht.
- sind in der Lage, seerechtliche Fragestellungen zu analysieren und lösungsorientiert zu bearbeiten.
- können Forschungsfragen interdisziplinär entwickeln und bearbeiten.

**Skills to be acquired in this module**

**Module contents**
Das Modul “Marine & Maritime law in Europe” beinhaltet zwei Veranstaltungen mit jeweils 28 SWS.


**Recommended reading**

**Links**
- Language of instruction: English
- Duration (semesters): 1 Semester
- Module frequency: jährlich
- Module capacity: unlimited
- Module level: Type of module
- Teaching/Learning method
<table>
<thead>
<tr>
<th>Previous knowledge</th>
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<tbody>
<tr>
<td>Examination</td>
</tr>
<tr>
<td>Final exam of module</td>
</tr>
</tbody>
</table>

| Type of course | Seminar  
|               | (2 SE) |
| SWS           | 4      |
| Frequency     | SoSe und WiSe |
| On-site workload | 56 h  |
wir881 - Energy Law

Module label: Energy Law
Module abbreviation: wir881
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master's programme Business Administration: Management and Law (Master) > Kernmodule CHI
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-Recht
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - Recht
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons:
- Lehrenden, Die im Modul (authorised to take exams)
- Meyerholt, Ulrich (Module counselling)
- Godt, Christine (module responsibility)

Prerequisites

Skills to be acquired in this module:
Die Studierenden

- erwerben vertiefte Kenntnisse des europäischen und deutschen Energiewirtschaftsrechts.
- sind in der Lage, energierechtliche Fragestellungen zu analysieren und lösungsorientiert zu bearbeiten.
- können Forschungsfragen interdisziplinär entwickeln und bearbeiten.

Module contents:

Recommended reading:

Links

Languages of instruction: German, English
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited
Module level

Type of module:

Teaching/Learning method:

Previous knowledge:

Examination
Examination times: Während der Vorlesungszeit
Type of examination: Referat oder Hausarbeit oder mündliche Prüfung

Type of course: Seminar
<p>| | |</p>
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<tr>
<td><strong>2 SE</strong></td>
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<tr>
<td><strong>SWS</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>SoSe und WiSe</td>
</tr>
<tr>
<td><strong>On-site workload</strong></td>
<td>56 h</td>
</tr>
</tbody>
</table>
wir883 - Transnational Biodiversity and Genetic Resources Law

Module label: Transnational Biodiversity and Genetic Resources Law
Module abbreviation: wir883
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-Recht
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - Recht
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons:
- Kamau, Evanson Chege (Module counselling)
- Lehrenden, Die im Modul (authorised to take exams)
- Götz, Christine (module responsibility)

Prerequisites:
- 英語の知識

Skills to be acquired in this module:
Die Studierenden

verstehen internationale, europäische und nationale themenbezogene Rechtsnormen und

wenden internationale, nationale und europäische themenbezogene Rechtsnormen an.

erlernen die englische Rechtsterminologie.

Module contents:
Das Modul richtet sich an Studierende, die bereits eine wissenschaftliche Vorbildung haben.


Inhaltlich sind die folgenden Themengebiete für die Lehrveranstaltungen relevant:

- Internationale Rahmenbedingungen für den Zugang zu genetischen Ressourcen und Vorteilausgleich
- EU-Recht und ausfüllende mitgliedstaatliche Regeln zur biologischen Forschung an und Nutzung von genetischen Ressourcen, Traditionell Wissen und Technologietransfer
- Nationale Vorschriften der Ressourcenstaaten für das Aufsuchen genetischer Ressourcen bei wissenschaftlichen Feldstudien und kommerzieller Bioprospektion (z.B. Genehmigungspflichten; Prior Informed Consent; Mutually Agreed Terms; Due Diligence)
- Recht der verschiedenen kommerziellen, gesetzlichen und akademischen Ex-situ-Sammlungen genetischer Ressourcen (Practices of databases / Prinzipien und Praktiken der Datenbanken)
- Code of Conduct der deutschen Forschungseinrichtungen (vor allem DFG)
- Genetische Ressourcen und Geistiges Eigentum
- Good practices / Bewährte Verfahren (selected ex situ collections)
• ABS agreements ("Mutual Agreed Terms")/ Verträge
• Legislative options / Legislative Optionen

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<tr>
<td>Links</td>
<td><a href="https://www.uni-oldenburg.de/eurowr/">https://www.uni-oldenburg.de/eurowr/</a></td>
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<td>Language of instruction</td>
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<td>4</td>
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<tr>
<td>Frequency</td>
<td>SoSe und WiSe</td>
</tr>
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**wcm140 - Planning and Management of Coastal Zones and Sea Basins**

<table>
<thead>
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**Applicability of the module**
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Water and Coastal Management (Master) > Planning

**Responsible persons**
- Mose, Ingo (authorised to take exams)
- Karrasch, Leena (authorised to take exams)
- Karrasch, Leena (Module counselling)
- Siebenhüner, Bernd (module responsibility)
- Mose, Ingo (module responsibility)

**Prerequisites**
None

**Skills to be acquired in this module**
The students gain a differentiated understanding of the challenges of Coastal Zone Management in a national and European context; the questions implied therein, the stakeholders and substantial political and legal implications. At the same time they will get a first insight of selected national and international project examples while getting to know a part of their possible future field of action.

**Module contents**
- **Coastal Zone Management**
  Basic demands and questions of Coastal Zone Management in a spatial planning perspective.
- **International Approaches to Coastal Zone Management**
  Field trip to a selected (inter)national place at the coast (Germany, The Netherlands) to show selected problem fields of Coastal Zone Management.

**Recommended reading**

**Links**

**Language of instruction**
English

**Duration (semesters)**
2 Semester

**Module frequency**
halbjährlich

**Module capacity**
unlimited

**Reference text**
Lecture room presentations and discussions based on slides and black/white boards. Visit of European sites representative for good practice in Coastal Zone Management; interaction and discussion with local researchers and practitioners

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

**Examination times**

**Type of examination**

**Final exam of module**

**Type of course**
Seminar

**SWS**

**Frequency**

**On-site workload**
0 h
In today's highly dynamic business environment, innovation is the key to the success of most firms. Moreover, technological and organizational innovations represent valuable instruments for achieving progress toward sustainable development. Against this background, this module familiarizes students with the tools and processes for managing innovation and for developing overall more innovative firms. The module comprises a lecture and a seminar. In the lecture, students become acquainted with the drivers to and role of innovation; they learn about designing innovative firms and developing innovation strategies; they get to know the different sources of innovation; they familiarize themselves with the methods for choosing between alternative planned innovations; they learn how innovation is implemented; and they understand how innovation benefits are exploited. The accompanying seminar is supposed to familiarize the students with select advanced topics surrounding the management of innovation. Moreover, the students train their skills in working in teams, in working with scientific literature, in academic writing, and in presenting in front of a large audience.
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<td>SoSe oder WiSe</td>
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**Total module attendance time**  
56 h
### wir934 - Business French

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**Applicability of the module**
- Master's programme Business Administration: Management and Law (Master) > Ergänzungsmodule - Rechts- und Wirtschaftssprache
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**
- Engelhardt, Maike (module responsibility)
- Brunet-Dilger, Anne-Marie (authorised to take exams)
- Müllerova, Marcela (authorised to take exams)

**Further responsible persons**
Prüfungsberechtigt sind die unterrichtenden Dozenten.

**Prerequisites**
mittlere Französischkenntnisse; Teilnahme am Einstufungstest des Sprachenzentrums

**Skills to be acquired in this module**
Sprachliche Kompetenzenerweiterung im Bereich Wirtschaftsfranzösisch zur Vorbereitung von fachbezogenen Studienaufenthalten und Praktika im französischsprachigen Ausland

**Module contents**

**Recommended reading**
- wird im Kurs bekannt gegeben


**Links**
https://uol.de/sprachenzentrum/sprachen/wirtschaftssprachen

**Language of instruction**
French

**Duration (semesters)**
1 Semester

**Module frequency**
ahalbjährlich

**Module capacity**
25

**Reference text**
Ce cours prépare à de courts séjours spécifiques, un semestre universitaire ERASMUS+ et /ou à des stages en France. Acquérir des savoirs et savoir-faire concernant l'entreprise et son environnement (l'état et l'économie françaises, les secteurs d'activité en France et les relations sociales) ainsi que l'entreprise et son marché (marketing d'un produit)

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

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<tr>
<th>Examination</th>
<th>Examination times</th>
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**Type of course**
Language course

**SWS**
4

**Frequency**
WiSe

**On-site workload**
56 h
### wir933 - Business English

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**Applicability of the module**

- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
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- Bachelor's Programme Intercultural Education and Counselling (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
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- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
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- Master's programme Business Administration: Management and Law (Master) > Ergänzungsmodul - Rechts- und Wirtschaftssprache
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons
- Engelhardt, Maike (module responsibility)
- Dittmann, Tim (authorised to take exams)
- Barry, Geraldine (authorised to take exams)
- Bisayar, Saeedeh (authorised to take exams)

Prerequisites

Einstufung auf Niveau English for University Studies 4 (EUS 4) oder ein erfolgreicher Abschluss von English for University Studies 3 (EUS 3) - Comprehensive Language Skills

Skills to be acquired in this module

The 4-hour Rechts- und Wirtschaftssprache: Englisch I course helps participants develop subject-specific (i.e. economics and law) upper-intermediate English language competences in listening, speaking, reading and writing. An additional focus is the expansion of participants' vocabulary and grammar knowledge.

Module contents

The course covers a variety of topics, tasks and formats aimed at developing participants' subject-specific (i.e. economics and law) upper-intermediate English language competences in listening, speaking, reading and writing, as well as expanding their vocabulary and grammar knowledge.

Recommended reading

The course materials will be announced in class.

Links

https://uol.de/sprachenzentrum/sprachen/english/wirtschaftsenglisch
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**Reference text**

Teilnahme nur nach online-Anmeldung über das Sekretariat des Sprachenzentrums, sprachenzentrum@uni-oldenburg.de

Die aktuelle Kursbeschreibung findet sich jeweils unter https://uol.de/sprachenzentrum/sprachen/english

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| 56 h |

## wir866 - Business and Legal Chinese II

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<td>• Trautwein, Hans-Michael (module responsibility)</td>
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<td>• Lehrenden, Die im Modul (authorised to take exams)</td>
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<td>• Wang, Hongrui (Module counselling)</td>
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<td>Skills to be acquired in this module</td>
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<td>At the end of the course, successful students:</td>
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<tr>
<td>• recognize and read more than 400 Hanzi and understand simple letters and stories about everyday life situations,</td>
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<td>• understand simple dialogues in familiar contexts when pronounced slowly and clearly,</td>
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<td>• are familiar with Chinese intonation and can correctly reproduce it in pronunciation in simple dialogues,</td>
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<td>• provide important information and can make and react to proposals,</td>
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<td>• can identify frequently occurring radicals in Hanzi unknown to them</td>
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<td>• write the pen strokes in Chinese characters in correct sequence</td>
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<td>• write simple letters, dialogues and essays on familiar topics.</td>
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<td>Thematic vocabulary concerning personal information, education, travelling, basic academic matters etc; Reading: short dialogues and texts from everyday life Listening: short dialogues, colloquial talks Speaking: self-presentation and descriptions Writing: letters, dialogues and essays Self-learning: work with the portfolio, individual training.</td>
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### Legal and Business Language: English II

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**Applicability of the module**

- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Informatics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Chemistry (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
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- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons
- Engelhardt, Maike (module responsibility)
- Dittmann, Tim (authorised to take exams)
- Barry, Geraldine (authorised to take exams)
- Bisayar, Saeedeh (authorised to take exams)

Prerequisites
Einstufung auf Niveau English for University Studies 5 (EUS 5)

Skills to be acquired in this module
The 4-hour Rechts- und Wirtschaftssprache: Englisch 2 course helps participants develop subject-specific (i.e. economics and law) advanced English language competences in listening, speaking, reading and writing. An additional focus is the expansion of participants' vocabulary and grammar knowledge.

Module contents
The course covers a variety of topics, tasks and formats aimed at developing participants' subject-specific (i.e. economics and law) advanced English language competences in listening, speaking, reading and writing, as well as expanding their vocabulary and grammar knowledge.

Recommended reading
The course materials will be announced in class.

Links
https://uol.de/sprachenzentrum/sprachen/english/wirtschaftsenglisch

Language of instruction
English

Duration (semesters)
1 Semester

Module frequency
halbjährlich

Module capacity
25
Teilnahme nur nach online-Anmeldung über das Sekretariat des Sprachenzentrums, sprachenzentrum@uni-oldenburg.de

Die aktuelle Kursbeschreibung findet sich jeweils unter https://uol.de/sprachenzentrum/sprachen/english

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wir944 - Legal and Business Language: French II

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Applicability of the module

- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Administration and Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Business Informatics (Bachelor) > Fachhae Angebote Betriebswirtschaftslehre
- Bachelor's Programme Business Informatics (Bachelor) > Fachhae Angebote Wirtschaftswissenschaften
- Bachelor's Programme Chemistry (Bachelor) > Fachhae Angebote Betriebswirtschaftslehre
- Bachelor's Programme Chemistry (Bachelor) > Fachhae Angebote Wirtschaftswissenschaften
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Comparative and European Law (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Computing Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Economics and Business Administration (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Engineering Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Environmental Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Environmental Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Intercultural Education and Counselling (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Intercultural Education and Counselling (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Mathematics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Physics, Engineering and Medicine (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Social Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Bachelor's Programme Sustainability Economics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Bachelor's Programme Sustainability Economics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Art and Media (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
Angebote Wirtschaftswissenschaften

- Dual-Subject Bachelor's Programme Politics-Economics (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Politics-Economics (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Protestant Theology and Religious Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Protestant Theology and Religious Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Slavic Studies (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Slavic Studies (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
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- Dual-Subject Bachelor's Programme Special Needs Education (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Special Needs Education (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Sport Science (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Sport Science (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Dual-Subject Bachelor's Programme Technology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Dual-Subject Bachelor's Programme Technology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Fach-Bachelor Pädagogisches Handeln in der Migrationsgesellschaft (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
- Fach-Bachelor Pädagogisches Handeln in der Migrationsgesellschaft (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften
- Master's programme Business Administration: Management and Law (Master) > Ergänzungsmodule - Rechts- und Wirtschaftssprache
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons

- Engelhardt, Maike (module responsibility)
- Brunet-Dilger, Anne-Marie (authorised to take exams)
- Müllerova, Marcela (authorised to take exams)

Further responsible persons

Prüfungsberechtigt sind die unterrichtenden Dozenten.

Prerequisites

gute bis sehr gute Französischkenntnisse; Teilnahme am Einstufungstest des Sprachenzentrums

Skills to be acquired in this module


Module contents


Recommended reading


Links

https://uol.de/sprachenzentrum/sprachen/wirtschaftssprachen

Language of instruction

French

Duration (semesters)

1 Semester

Module frequency

halbjährlich

Module capacity

25

Reference text

Ce cours prépare à des séjours d'études ou de recherche de longue durée, à des stages qualifiés en France et/ou en Francophonie. Il s'adresse tout particulièrement aux étudiant(e)s des programmes de double diplômes franco-allemand (Bachelor et master), qui dans le cadre de leurs études ou/et
D’ERASMUS+ devront pendant leur séjour communiquer uniquement en Français et/ou souhaitent après leurs études travailler en France, en Francophonie ou dans des organisations internationales.

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### Module Information

**Module label:** Legal and Business Language: Spanish II  
**Module abbreviation:** wir945  
**Credit points:** 6.0 KP  
**Workload:** 180 h

#### Applicability of the Module

- Bachelor's Programme Biology (Bachelor) > Fachnahe Angebote Betriebswirtschaftslehre
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- Dual-Subject Bachelor's Programme Technology (Bachelor) > Fachnahe Angebote Wirtschaftswissenschaften

Responsible persons

- Engelhardt, Maike (module responsibility)
- Sanchez Gonzalez, Dolores (authorised to take exams)

Prerequisites

Teilnahme nur nach Einstufungstest und online-Anmeldung über StudIP (Einzelheiten siehe https://www.uni-oldenburg.de/sprachenzentrum/)

Skills to be acquired in this module


Module contents


Recommended reading

wird im Kurs bekannt gegeben

Links

https://uol.de/sprachenzentrum/sprachen/wirtschaftssprachen

Language of instruction

Spanish

Duration (semesters)

1 Semester

Module frequency

halbjährlich

Module capacity

25

Reference text

folgt

Module level

Type of module

Teaching/Learning method

Previous knowledge

Examination

Examination times

Type of examination

Final exam of module

semesterbegleitend

KL

Type of course

Language course

SWS

4

Frequency

SoSe

On-site workload

56 h
**wir850 - Start-up Consulting**

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<td>- Master's programme Business Administration: Management and Law (Master) &gt; Schwerpunktmodule UF - BWL</td>
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<td>- Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
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<td>- Birkner, Stephanie (module responsibility)</td>
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<td>Ziel des Moduls ist, den Studierenden interdisziplinäre Perspektiven auf die Beratung (Themen, Personen, Qualifikation) im besonderen Fokus der Begleitung von Gründungsvorhaben näher zu bringen. Das Modul „Gründungsberatung“ bietet Studierenden die Möglichkeit, sich sowohl wissenschaftlich als auch anwendungsorientiert mit den Besonderheiten und (zukünftigen) Professionalisierungserforderungen der Beratung von Gründern/Gründerinnen zu beschäftigen. Zugleich erhalten Sie Einblicke in die Gründerzene. Über die Einbindung eines Gründungsteams als Fallstudiengänger eröffnet sich den Studierenden die Gelegenheit, ihr Beratungskonzepte unter realen Bedingungen zu entwickeln, zu testen und zu evaluieren.</td>
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<td>- Beratungserfahrung und –konzepte</td>
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<td>- Projektorientiertes Lernen</td>
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<td>- Gruppendynamische Prozesse</td>
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*Links to additional resources and reading materials available for this module.*
wir873 - Applied Economics

Module label: Applied Economics
Module abbreviation: wir873
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master Applied Economics and Data Science (Master) > Economics
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons:
- Bitzer, Jürgen (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

Prerequisites:

Skills to be acquired in this module:
The students are able to:
- develop an empirical research project,
- collect the required data,
- carry out an econometric analysis,
- interpret, discuss and present the results.

Module contents:
The module consists of a lecture and a seminar. In the lecture, the students develop their research project and present their work process. In the bloc seminar, the students present their results and discuss them.

Recommended reading:

Links:

Languages of instruction: German, English
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited

Reference text:

Module level:
Type of module:

Teaching/Learning method:

Previous knowledge:

Examination:

Examination times:

Type of examination:

Final exam of module:
vary according to type of examination

term paper or seminar paper and presentation or written exam or oral exam or portfolio or project paper

Type of course:

Comment
SWS
Frequency
Workload of compulsory attendance

Lecture
2
28

Seminar
2
28

Total module attendance time
56 h
wir886 - Digital Transformation: Strategies and Sustainability

**Module label**
Digital Transformation: Strategies and Sustainability

**Module abbreviation**
wir886

**Credit points**
6.0 KP

**Workload**
180 h

\[
4 \text{ SWS (56h)}
\]

**Applicability of the module**
- Master Applied Economics and Data Science (Master) > Specialization
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule UF - BWL
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**
- Lehrenden, Die im Modul (authorised to take exams)
- Hoppmann, Jörn (module responsibility)

**Prerequisites**

**Skills to be acquired in this module**
The students should:
- know basic definitions, trends and application areas of digitalization
- be able to assess the economic effects of digitalization
- understand corporate strategies and business models in the context of digital transformation
- know how companies should design processes and structures to promote digitalization in organizations
- have an overview of social, legal and ethical aspects of digitalization
- assess the environmental impact of digitalization
- evaluate digital products, services and business models using ethical and sustainable guidelines
- independently develop proposals for the integration of ethical, social and ecological criteria in digitalization projects and processes

**Module contents**
The module "Digital Strategy and Sustainability" provides insights into the role of digitalization for companies and the associated social discourse. The digital transformation leads to the emergence of new business models, markets and forms of interaction. This requires comprehensive changes in strategic orientation as well as in business processes and structures. In addition, new regulations and standards are required at the societal level in order to meet the ethical, ecological, and societal challenges posed by digitalization.

In the first part of the seminar, students are familiarized with the basics and application areas of digitalization as well as the economic, social, and ecological implications. Toward this end, important questions in the context of digital transformation will be raised and discussed drawing on company case studies. Exemplary questions that will be dealt with in this context are:
- What are the technological drivers of digitalization and what trends can be observed?
- What is the impact of digital transformation on industries and companies?
- How can companies design strategies, business models, processes and structures to address the digital transformation?
- What are the consequences of digitalization on a societal and legal level?
- How does the digital transformation affect the natural environment?
- How can social, ethical, and ecological aspects be integrated into digital products, services and business models?

In the second part of the course, students will develop digital business models in teams under the guidance of experienced coaches, taking into account economic, ecological and social/ethical criteria. The results are presented to the other students and company representatives and will be summarized in a term paper. An important part of the term paper is the critical reflection of current methods used to develop digital business models with regard to sustainability criteria.

**Recommended reading**

**Links**

**Language of instruction**
English
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wir890 - Climate Economics

<table>
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<tr>
<td>Credit points</td>
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**Applicability of the module**
- Master Applied Economics and Data Science (Master) > Economics
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**
- Böhringer, Christoph (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Riesenbeck, Lukas (Module counselling)

**Prerequisites**
This course aims at giving students an understanding of reasons, objectives and economic instruments for climate policy. Students first get acquainted with the natural science of the climate where anthropogenic greenhouse gas emissions constitute the source of man-made climate change. The latter is then explained from an economic perspective as a global environmental externality calling for environmental regulation to avoid substantial market failures. Game theoretic analysis of international negotiations and agreements provides key insights about the fundamental problems of free-riding and efficient climate policy design. Beyond theoretical propositions, the lecture will critically discuss past and contemporary climate policies such as the Kyoto Protocol, the Paris Agreement, or the EU Emissions Trading System.

**Module contents**
- Natural science of climate change; environmental externalities and market failures; environmental regulation (emission taxes, standards, tradable permits, etc.); international environmental agreements; critical appraisal of climate policy implementation.

**Recommended reading**

**Language of instruction**
- English

**Duration (semesters)**
- 1 Semester

**Module frequency**
- Annual

**Module capacity**
- 30

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**
- Microeconomics

**Examination**

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<td>Written exam (max. 120 min)</td>
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**Type of course**

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**Total module attendance time**
- 56 h
Computational Economics

**Module label**: Computational Economics

**Module abbreviation**: wir892

**Credit points**: 6.0 KP

**Workload**: 180 h

**Applicability of the module**
- Master Applied Economics and Data Science (Master) > Empirical Methods
- Master's programme Social Sciences (Master) > Wahlpflichtmodule anderer Institute und Departments
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**
- Böhringer, Christoph (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Riesenbeck, Lukas (Module counselling)
- Schürer, Laura (Module counselling)

**Prerequisites**: None

**Skills to be acquired in this module**
Computer-based simulations play a key role for quantifying the economic impacts of policy reforms. Among numerical simulation methods, computable partial equilibrium (CPE) models are widely used in applied economic analysis. These models build on microeconomic theory for describing supply and demand behavior of economic agents on markets. Students will learn how to program such models and apply them to the impact assessment of trade, fiscal, or environmental policies.

**Module contents**
In the course, we start from basic microeconomic theory to describe the supply-side and demand-side responses on economic markets triggered by regulatory policy measures such as taxes or subsidies. We then translate simple theoretical models into computable partial equilibrium (CPE) models and use empirical data for model parameterization. Subsequently, the CPE models are used to quantify the economic efficiency impacts and the economic incidence of policy instruments such as taxes, subsidies, standards or quotas. For the implementation of the simulation models on the students' PC we will learn a powerful state-of-the-art modeling language called GAMS (Generic Algebraic Modeling System) which initially had been developed for World Bank economists. The fundamental strength of GAMS lies in the ease with which algebraic models in economics and management (or other sciences) can be formulated and solved. Students enrolled to the course will receive a free GAMS license. For the examination, the students will be requested to adapt a basic market model towards a policy issue of their choice and provide a small written essay (max. 10 pages) on their applied analysis. For this, the students can team up in groups with 2 people and hand in their essay until the end of the summer semester.

**Recommended reading**: Tba

**Language of instruction**: English

**Duration (semesters)**: 1 Semester

**Module frequency**: Annual

**Module capacity**: 14

**Module level**: Type of module

**Teaching/Learning method**

**Previous knowledge**

**Examination**

**Examination times**

**Type of examination**

**Final exam of module**
At the end of the lecture period

**Portfolio**

**Type of course**

**Comment**

**SWS**

**Frequency**

**Workload of compulsory attendance**

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**Total module attendance time**: 56 h
wir893 - Development Economics

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<tr>
<td>Responsible persons</td>
<td></td>
</tr>
<tr>
<td>Bitzer, Jürgen (module responsibility)</td>
<td></td>
</tr>
<tr>
<td>Lehrenden, Die im Modul (authorised to take exams)</td>
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<tr>
<td>Bitzer, Jürgen (Module counselling)</td>
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</table>

Skills to be acquired in this module

The students are able:

- to identify and discuss empirical challenges in research on developing countries
- to understand, summarize, and discuss recent research studies in development economics
- evaluate strategies to reach sustainable economic development discussed in the public and politics
- participate in a discussion on the topic, developing a well-grounded position and problem solving strategy
- to present current research to and discuss it verbally and in written form
- to identify gaps in the literature on developing countries

Module contents

The module introduces the students to the current challenges of developing countries and the strategies to overcome them. The module will focus on the empirical research on developing countries, addressing the reasons for the sluggish development as well as the applied approaches to foster economic development. In the lecture the empirical methods used in development economics will be discussed. In the seminar current research papers on topics like poverty, conflicts, foreign aid, health, human capital and institutions in developing countries will be discussed.

Recommended reading


Links

Language of instruction | English |
Duration (semesters) | 1 Semester |
Module frequency | Yearly |
Module capacity | unlimited |
Module level

Type of module

Teaching/Learning method

Previous knowledge

Examination

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<td>Formal presentation with written elaboration and discussion</td>
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Type of course

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Total module attendance time | 56 h |
**wir911 - Advanced Topics of Sustainability Economics**

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<tr>
<td>- kein Abschluss European Studies in Global Perspectives &gt; Society, Economy and Politics</td>
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<tr>
<td>- Master's programme Business Administration: Management and Law (Master) &gt; Schwerpunktmodule NM-VWL</td>
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<td>- Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
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<tr>
<td>Responsible persons</td>
<td></td>
</tr>
<tr>
<td>- Böhringer, Christoph (module responsibility)</td>
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<td>- Siebenhüner, Bernd (module responsibility)</td>
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<td>- Lehrenbein, Die im Modul (authorised to take exams)</td>
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<td>- Riesenbeck, Lukas (Module counselling)</td>
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<tr>
<td>Prerequisites</td>
<td>none</td>
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<tr>
<td>Skills to be acquired in this module</td>
<td>This course aims at giving students an understanding of reasons, goals and instruments for climate policy, as well as implied complications due to the long term characteristics and the international dimension of climate change. Students first learn basics about the natural science of climate change and the main statements of climate research about the anthropogenic contribution to climate change. The economic interpretation of high pollution as a symptom of a market failure then leads to the treatment of policy instruments, and the understanding of economic efficiency as a prerequisite for effective climate policy. Game theoretic analysis of international negotiations and agreements provides key insights about the international dimension of the problem. By means of practical examples students then see in detail the functionality and pitfalls of selected implemented (or currently discussed) policies, e.g. the EU-ETS. With successful completion of the course, students shall be able to judge climate policy issues on an informed scientific basis (natural science and economics).</td>
</tr>
<tr>
<td>Module contents</td>
<td></td>
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<tr>
<td>- Natural science of climate change: greenhouse effect; measures, causes and impacts of climate change.</td>
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<tr>
<td>- Economics of climate change: market failures (public goods, externalities); game theory of international agreements (prisoner’s dilemma, chicken game, assurance game, repeated games, continuous choice); environmental policy instruments (especially taxes, tradable permits); Climate policy in practice: EU-ETS (pitfalls: market segmentation, conditional grandfathering, lobbying); emission taxes and the EU-ETS; interaction between black and green quotas; embodied carbon tariffs.</td>
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<tr>
<td>Links</td>
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<tr>
<td>- Languages of instruction: German, English</td>
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<tr>
<td>Duration (semesters)</td>
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<tr>
<td>Module frequency</td>
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<td>Teaching/Learning method</td>
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<td>Examination</td>
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<tr>
<td>Module label</td>
<td>Advanced Research Topics in Sustainable Supply Chain Management</td>
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| Applicability of the module | • Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL  
• Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL  
• Master's Programme Sustainability Economics and Management (Master) > Additional Modules |
| Responsible persons | • Busse, Christian (module responsibility)  
• Lehrenden, Die im Modul (authorised to take exams)  
• Dahiya, Satwant (Module counselling) |
| Prerequisites    | Erfolgreiche Belegung des Moduls "Sustainable Supply Chain Management" (wir921) |
| Skills to be acquired in this module | The module helps students to specialize in research in the field of sustainable supply chain management by developing their substantive and theoretical expertise and by augmenting their methodological expertise. Students hone their skills in gathering, reading, understanding, and synthesizing scholarly articles using different methods. They may also practice their data collection and data analysis skills. Moreover, students further develop their academic writing, reviewing, presentation, and discussion skills. |
| Module contents  | This masters-level module focuses on selected topics pertaining to the relationship perspective of sustainable supply chain management, comprising topics such as Stakeholder Management; Legitimacy, Decoupling & Greenwashing; Supply Chain Sustainability Risks; Sustainable Supplier Management; and Supply Chain Sustainability Dilemmas. |
| Recommended reading | Selected scholarly research articles will be used throughout the module. |
| Language of instruction | English |
| Duration (semesters) | 1 Semester |
| Module frequency  | Irregular frequency |
| Module capacity   | 15 |
| Module level      | |
| Type of module    | |
| Teaching/Learning method | |
| Previous knowledge | |
| Examination | Examination times | Type of examination |
| Final exam of module | Portfolio or Report or Presentation (depending on the specific courses offered) |
| Type of course    | Seminar |
| SWS               | 4 |
| Frequency         | SoSe oder WiSe |
| On-site workload  | 56 h |
**Module label**
Ecological Economics

**Module abbreviation**
wir924

**Credit points**
6.0 KP

**Workload**
180 h

**Applicability of the module**
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Water and Coastal Management (Master) > Socioeconomics

**Responsible persons**
- Sievers-Glotzbach, Stefanie (module responsibility)
- Siebenhüner, Bernd (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Lehrenden, Die im Modul (Module counselling)

**Prerequisites**
None

**Skills to be acquired in this module**
The students:
- get an overview of the current state of research in Ecological Economics
- know and understand core concepts and policy implications of Ecological Economics
- deepen their knowledge on one specific topic from the field of Ecological Economics
- improve skills in reading, interpreting and presenting academic journal papers

**Module contents**
Ecological Economics is concerned with integrating the study and management of "nature's household" (ecology) and "humankind's household" (economics). This integration is central to many of humanity's current problems and to governing economic activity in a way that promotes human well-being, sustainability, and justice.

The aim of this module is to introduce students to core concepts and policy implications from the field of Ecological Economics. The module consists of two seminars.

1. Lecture/seminar "Ecological Economics": This lecture/seminar is structured into three parts. First, students are being introduced to the topic by two lectures on the specific vision and paradigms of Ecological Economics as distinguished from environmental & resource economics and on the history of Ecological Economics. Second, the students work out and discuss the core analytical concepts (such as entropy, ecosystem services, social-ecological resilience, substitutability of natural capital) as well as the core normative concepts (including distributive justice, human behavior) in Ecological Economics. Third, the students discuss and reflect certain policy implications following from Ecological Economics – specifically the measurement of welfare, economics of degrowth, governance of resources as commons, and social-ecological transformation. The basis for discussion will be classical and current scientific papers.

2. Specialization seminar: Depending on current research foci and research projects of the Working Group of Ecological Economics, an additional seminar will give a deeper understanding of a specific research area in Ecological Economics (e.g., Social-Ecological Resilience, (De)Growth Concepts (Green Growth, Postgrowth, Degrowth), Commons).

**Recommended reading**

**Links**

**Language of instruction**
English

**Duration (semesters)**
1 Semester

**Module frequency**
Yearly in the summer term
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<td>1 Klausur oder</td>
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<td>1 Portfolio oder</td>
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### wir925 - Innovations for Sustainable Operations

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<tr>
<td>- Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
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<tr>
<td>Responsible persons</td>
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<tr>
<td>- Busse, Christian (module responsibility)</td>
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<td>- Lehrenden, Die im Modul (authorised to take exams)</td>
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<td>- Dahiya, Satwant (Module counselling)</td>
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<td>Prerequisites</td>
<td>Erfolgreiche Belegung mindestens eines der Module „Sustainable Supply Chain Management“ (wir921), „Supply Chain Management“ (wir899), „Operations Management“ (wir896) und „Innovation Management“ (wir832)</td>
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<tr>
<td>Skills to be acquired in this module</td>
<td>Students become acquainted with emergent innovations for sustainable operations, they evaluate such innovations and (co-)design others. They learn to evaluate their actual or conjectured economic, social and/or ecologic effectiveness, drawing on the design science framework and/or theoretical discourses in the field</td>
</tr>
<tr>
<td>Module contents</td>
<td>The module helps students to specialize on the intersection of operations and supply chain management, sustainability management, and innovation management. The specific topics align closely with the most up-to-date applied research topics.</td>
</tr>
<tr>
<td>Recommended reading</td>
<td>Selected scholarly research articles will be used throughout the module</td>
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<td>SoSe oder WiSe</td>
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**mar363 - Theory of Ecological Communities**

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<td></td>
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<td></td>
<td>- Master's Programme Marine Environmental Sciences (Master) &gt; Mastermodule</td>
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<td></td>
<td>- Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
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<tr>
<td>Responsible persons</td>
<td>Blasius, Bernd (module responsibility)</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>Keine</td>
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<tr>
<td>Skills to be acquired in this module</td>
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**VL/Ü Theorie ökologischer Gemeinschaften**

Vermittlung der grundlegenden Theoriegebäude zur Beschreibung von Koexistenz und Biodiversität in ökologischen Lebensgemeinschaften. Die Studierenden erlangen ein intuitives und mathematisches Verständnis der verschiedenen Koexistenzmechanismen und sind in der Lage, aufbauend auf diesen Theorien eigene Modellerweiterungen zu entwickeln und diese numerisch zu analysieren.

**Module contents**

**VL/Ü Theorie ökologischer Gemeinschaften**

Grundlegende theoretische Modelle zur Beschreibung des Artenreichtums in ökologischen Gemeinschaften.


**Recommended reading**

Wird in den Veranstaltungen bekannt gegeben.

**Links**

Language of instruction: German

**Duration (semesters)**

1 Semester

**Module frequency**

jährlich

**Module capacity**

unlimited

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

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<th>Type of examination</th>
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<tr>
<td>Final exam of module</td>
<td>Klausur am Ende der Veranstaltungszeit oder fachpraktische Übung oder mündliche Prüfung nach Maßgabe der Dozentin oder des Dozenten.</td>
<td>KL</td>
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**Total module attendance time**

56 h
mar368 - Climate Models

Module label: Climate Models
Module abbreviation: mar368
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Marine Environmental Sciences (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

Responsible persons:
- Lettmann, Karsten (module responsibility)

Prerequisites:
- Keine

Skills to be acquired in this module:
Im Rahmen dieser Veranstaltung werden grundlegende naturwissenschaftlich-mathematische Fachkenntnisse erworben. An einfachen Energie-Bilanzmodellen werden numerische Methoden, sowie das Algorithmieren und Programmieren eingeübt. Durch weiteres Arbeiten mit diesen Testprogrammen wird die Fähigkeit zur eigenständigen Forschung geübt. Im Rahmen eines IPCC Abschlussprojektes, werden die Studierenden sowohl zur Teamfähigkeit als auch zum Umgang mit wissenschaftlicher Primärliteratur angeleitet. Im Rahmen der Abschlusspräsentation lernen die Studenten das Darstellen und das Diskutieren ihrer Ergebnisse.

Module contents:

**VL Klimamodelle:**
- Einführung in die Theorie und Bedienung komplexer Klimamodelle
- Vermittlung mathematischer und physikalischer Grundlagen zum Verständnis der modellierten Prozesse und deren Implementierung in die Modelle
- Einführung in statistische Bewertungsmaße von Klimamodellen
- Programmierung einfacher Energie-Bilanz-Modelle, Umgang mit Klimamodellen mittlerer Komplexität (z.B. Planetsimulator), Simulation und Auswertung zukünftiger Treibhausgasemissions-szenarien

**Ü Klimamodelle:**
- Vertiefung der Inhalte der zugehörigen VL sowie praktische Übungen

Recommended reading:
- K. E. Trenberth, Climate System Modelling, 1993, Cambridge University Press

Links

Language of instruction: German
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: unlimited

Module level: 
Type of module: 
Teaching/Learning method:
Previous knowledge:

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**Total module attendance time**

56 h
### Phy641 - Energy Resources & Systems

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#### Applicability of the module
- Master's Programme Engineering Physics (Master) > Schwerpunkt: Renewable Energies
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme European Master in Renewable Energy (EUREC) (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Sustainable Renewable Energy Technologies (Master) > Mastermodule

#### Responsible persons
- Agent, Carsten (module responsibility)
- Knipper, Martin (module responsibility)
- Knipper, Martin (authorised to take exams)
- Torio, Herena (authorised to take exams)
- Schmidt, Thomas (authorised to take exams)

#### Prerequisites
- Skills to be acquired in this module
  - After successful completion of the module students should be able to:
    - characterize the global energy system and analyze the structure and constraints of today’s energy system,
    - explain the availability and connection between solar and wind energy,
    - identify the problems and challenges of energy supply due to fluctuating energy resources with varying and seasonal load profiles,
    - relate the solar irradiance conversion process as well as the atmospheric radiation balance of the earth to Wind Energy Meteorology.

#### Module contents
- This module will give an overview on the global energy system and the challenges of energy supply due to fluctuating energy resources with varying and seasonal load profiles.

**Energy Meteorology (Lecture - 90 h workload)**

**Section I: Solar Irradiance**
- Radiation laws,
- Solar geometry,
- Interaction of solar irradiance with the atmosphere,
- Radiation climatology,
- Solar radiation model,
- Statistical properties of solar irradiance,
- Measuring devices to ascertain solar radiation balance,
- Satellite-supported data acquisition to assess solar irradiance,

**Section II: Wind Flow**
- Origin and potential of atmospheric energy movements, Heat balance of the atmosphere,
- Physical laws of atmospheric flow,
- Wind circulation in the atmosphere, local winds,
- Wind flow in atmospheric layers (vertical structure, Ekman Layer),
- Assessment of wind potential (European Wind Atlas: model, concept,
- Wind Measurements,

**Energy Systems (Lecture - 90 h workload)**
- Definitions, separation electrical - thermal energy use,
- Resources and reserves,
- Energy system analysis: Efficiencies at various levels of the energy chain: Exergy analysis,
- Energy scenarios,
- Climate change,
- Advanced (power plant) technologies for conventional fuels,
- Electric power systems with large shares of renewables

**Recommended reading**

**Energy Meteorology:**
- IEA Word Energy Outlook (http://wordenergyoutlook.org/)

**Energy Systems:**
- Boyle, G. et al. (Eds.): Energy Systems and Sustainability (Oxford University Press, 2003)
- EIA: International Energy Outlook 2016 (www.eia.doe.gov/forecasts/ieo/)

**Links**

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**pre022 - Solar Energy**

**Module label** Solar Energy

**Module abbreviation** pre022

**Credit points** 6.0 KP

**Workload** 180 h

**Applicability of the module**
- Master's Programme Engineering Physics (Master) > Schwerpunkt: Renewable Energies
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Sustainable Renewable Energy Technologies (Master) > Mastermodule

**Responsible persons**
- Agert, Carsten (module responsibility)
- Torio, Herena (module responsibility)
- Torio, Herena (authorised to take exams)
- Knipper, Martin (authorised to take exams)
- Gütay, Levent (authorised to take exams)

**Prerequisites**

**Skills to be acquired in this module**

After successful completion of the module students should be able to:

- understand, describe and compare major technologies for solar energy use: solar thermal and photovoltaic systems
- analyse various system components and their interconnections within a solar energy system.
- critically appraise and assess various technologies for solar energy use and components involved in such solar systems.
- size and evaluate the performance of solar systems as a function of their operation conditions, components and system layout
- critically evaluate non-technical impact and side effects when implementing renewable energy supply systems

**Module contents**

This module gives an overview on renewable energy heat and photovoltaic technologies. Main focus hereby are the scientific principles of components and their technical description as well as first suitable system performance assessment methods.

**Photovoltaics** (Lecture: 90 h workload)

- Basic and most important properties of solar radiation related to photovoltaics
- PV cells basics: Fundamental physical processes in photovoltaic materials
- Characterization and basic modelling of solar cells
- Component Description: PV generator; Charge controller; Inverter; Balance of system components; System Description
- Grid Connected System
- Stand Alone System

**Renewable Energy Heat** (Seminar & Exercises: 90 h workload)

- Assessment of solar thermal ambient parameters: regional global,
diffuse, reflected solar radiation on horizontal and on tilted plane, ambient temperature

- Solar thermal system components: collectors; heat exchangers; thermal storage; thermal driven compression chillers
- Solar cooling systems and components
- Characterization of solar thermal systems, their operation and performance
- F-Chart and Utilizability methods as main methods for assessing system performance

Recommended reading

**Solar Energy PV**

- Stuart R. Wenham, Martin A. Green, Muriel E. Watt& Richard Corkish (Edit.), 2007: Applied Photovoltaics, Earthscan Publications Ltd.;

**Renewable Energy Heat**


Links

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**Previous knowledge**

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**Total module attendance time** 56 h
Module label: Wind Energy and Storage

Module abbreviation: pre025

Credit points: 6.0 KP

Workload: 180 h (180 Hours)

Applicability of the module:
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Sustainable Renewable Energy Technologies (Master) > Mastermodule

Responsible persons:
- Hölling, Michael (authorised to take exams)
- Knipper, Martin (authorised to take exams)
- Wark, Michael (authorised to take exams)
- Agert, Carsten (module responsibility)
- Knipper, Martin (module responsibility)

Prerequisites:

Skills to be acquired in this module:

After successful completion of the module students should be able to:

- Critically evaluate and describe basic characteristics and functioning of wind energy converters
- Understand the physical principal of wind energy conversion
- Understand wind turbine aerodynamics
- Critically evaluate and describe electrochemical storage systems with a focus on batteries as well as hydrogen storage systems (electrolyser, gas storage and fuel cells)

Module contents:

Basics of Wind Energy:

- Wind characterization and anemometers
- Aerodynamic aspects of wind energy conversion
- Wind turbine performance
- Design of wind turbines
- Dimensional analysis and pi-theorem

Energy Storage:

- Fundamentals of electrochemistry and thermodynamics
- Energy and environmental balances
- Fundamental setup of most common battery types
- Fundamental chemical reactions in these batteries
- Operational characteristics of batteries (charging & discharging, weir processes and service lives)

Recommended reading:

- Hoppecke, Installation, commissioning and operating instructions for vented stationary lead-acid batteries, Hoppecke, Editor. 2013, Hoppecke Batterien GmbH & Co. KG: Brilon, Germany.

Links
Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: Annual, Winter Semester, first semester in SuRE and EMRE
Module capacity: unlimited
Module level:
Type of module:
Teaching/Learning method:
Previous knowledge:
Examination:
Examination times:
Type of examination:
Final exam of module:
End of Module’s Block:
Written Exams (wind energy & energy storage)

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Total module attendance time: 56 h
pre041 - Sustainability of Renewable Energy

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**Applicability of the module**

- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Sustainable Renewable Energy Technologies (Master) > Mastermodule

**Responsible persons**

- Torio, Herena (authorised to take exams)
- Torio, Herena (module responsibility)
- Agert, Carsten (module responsibility)

**Prerequisites**

**Skills to be acquired in this module**

After successful completion of the module students should be able to:

- analyse, and critically compare and evaluate selected sustainability concepts and strategies addressing renewable energy systems
- critically appraise and analyse the principles and implications of selected scientific methods and theories for a sustainable energy supply
- critically evaluate the suitability and meaningfulness of different sustainability indicators, theories, methods and practices regarding their role and impact for developed countries, on the one hand, and developing countries, on the other
- perform an integral assessment, involving several relevant aspects related to the sustainability of a particular real-life renewable energy project as well as identify the main barriers, potentials and driving factors for improving it
- perform a literature review on selected sustainability approaches to a professional standard and extract the main related conclusions, and arguing critically on them
- present data and information both verbally and in the written form, including quotation to a professional standard

**Module contents**

The module “Sustainability of RE Systems” provides the theoretical background for understanding main concepts and interdisciplinary scientific methods from the context as well as their role in the sustainability debate.

Sustainability Seminar (Lecture & Seminar ? 180 h workload)

- Strategies and dimensions in sustainability research and discussion: efficiency, consistency and sufficiency, as well as related concepts (e.g. rebound)
- Growth/De-growth and decoupling of growth and emission
- Life-cycle analysis
- Thermodynamic methods: exergy, EROI and related approaches
- Social indicators and their relation to energy use
- Economic indicators and related paradigms in the context of energy consumption
- Resilience and its operationalisation for energy systems
- Methods for developing and assess socio-technical scenarios
Recommended reading


Links
- Language of instruction: English
- Duration (semesters): 1 Semester
- Module frequency: unlimited
- Module level: MM (Mastermodul / Master module)
- Type of module: Wahlpflicht / Elective

Teaching/Learning method

Previous knowledge

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Total module attendance time: 56 h
**Module**

**Resilient Energy Systems**

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**Applicability of the module**

- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Sustainable Renewable Energy Technologies (Master) > Mastermodule

**Responsible persons**

- Agert, Carsten (authorised to take exams)
- Torio, Herena (authorised to take exams)
- Agert, Carsten (module responsibility)
- Torio, Herena (module responsibility)

**Prerequisites**

- Skills to be acquired in this module

  After successful completion of the module students should be able to:

  - analyze, and critically understand different definitions of resilience and fundamental concepts relevant in the context of energy systems analysis (e.g. complexity, homeostasis, equilibria, stressors,...)
  - understand and interlink assessment methods, principles and theories for resilience analysis of energy supply systems in different scientific disciplines
  - critically evaluate the suitability, meaningfulness and implications of different resilience-related indicators, theories and assessment methods from several disciplines
  - develop a scientific discourse on suitable approaches for assessing particular aspects of resilient energy system design in the context of a particular real-life case study
  - identify main barriers, potentials and driving factors for improving one selected assessment approach in the context of its application to a case study
  - perform a literature review, apply a selected resilience and extract the main related conclusions, arguing critically on them
  - present scientific results and conclusions both verbally and in written form, including quotation to a professional standard

**Module contents**

The module “Resilient energy systems” provides the theoretical background for understanding main concepts and interdisciplinary scientific methods from the context of resilience assessment as well as their role in the debate towards resilient energy systems.

Resilient Energy Systems (Lecture & Seminar, 180 h workload):

- Definitions and fundamental concepts in resilience analysis of energy systems (complexity, homeostasis, equilibria, feedback loops,...)
- Approaches and methods for resilience assessment from different relevant disciplines:
  - epistemic approaches
  - resilience as guiding principle
  - aggregation methods for resilience assessment
  - cyber-security and informatics
- environmental modelling
- risk and vulnerability analysis
- agent-based models
- governance studies

Recommended reading


Links

Language of instruction
English

Duration (semesters)
1 Semester

Module frequency

Module capacity
unlimited

Module level

Type of module

Teaching/Learning method

Previous knowledge

Examination

Examination times

Type of examination

Final exam of module
At the end of the semester
Presentation of a Paper (presentation - 20 minutes and written report ca. 10 pages) or Term Paper (ca. 15 pages)

Type of course
Comment
SWS
Frequency
Workload of compulsory attendance

Lecture
2
SoSe oder WiSe
28

Seminar
2
SoSe oder WiSe
28

Exercises
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0

Total module attendance time
56 h
The module intends to give an overview and deeper understanding of front-edge topics and technologies relevant for the energy transition.

Current main such topics are the rolling out of the hydrogen economy as well as circular economy and critical material use and ocean energy converters. In the context of the energy transition in the global south, small hydro turbines may play a relevant role and are also part of the module content. Main skills to be achieved in the module are:

- Understand and describe front-edge topics in the energy transition.
- Cross-sectoral topics, technologies and new research topics relevant for the energy transition.
- Understand the principles, chemical and energy conversion processes involved in hydrogen and fuel cell systems.
- Understand the role of hydrogen in the energy transformation and the main energy conversion processes in which it is involved.
- Critically evaluate and describe hydrogen storage systems (electrolyser, gas storage and fuel cells) as well as their uses, advantages, characteristics and pitfalls.
- Understand and describe principles governing ocean energy converters
- Understand and describe principles governing micro-hydro energy converters
- Understand and describe concepts for circular economy and recycling in the energy sector
- Understand methods for assessing critical materials, their definitions and importance for the energy transition

### Module contents

#### Hydrogen and fuel cells (3 CP)

- Basics of hydrogen production (materials, processes, efficiencies, environmental impacts)
- Basics of fuel cells (function, materials, construction, systems applications)
- Basics of hydrogen storage systems (their setup, control, safety aspects)

#### Hidden Champions of RE (3 CP)

- Basic concepts for circular economy and recycling of materials in the energy sector
- Basic definitions and methods for appraising critical materials for the energy transition
- Ocean energy converters: principles and examples
Micro hydro energy converters: their principles, characteristics and uses

Recommended reading

Links

Language of instruction
Duration (semesters)
Module frequency
Module capacity
Module level
Type of module
Teaching/Learning method
Previous knowledge

Examination
Final exam of module
Type of course
SWS
Frequency
On-site workload

Examination times
At the end of the semester
VA-Auswahl
4
SoSe oder WiSe
56 h

Type of examination
Written exam (2x)
**wir760 - Computable General Equilibrium Analysis**

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**Applicability of the module**

- Master Applied Economics and Data Science (Master) > Economics
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

**Responsible persons**

- Böhringer, Christoph (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Böhringer, Christoph (Module counselling)

**Prerequisites**

None

**Skills to be acquired in this module**

During the course work students will learn how to set up computable general equilibrium (CGE) models step-by-step using the GAMS software (General Algebraic Modeling System) and apply them to actual policy issues of broader interest.

**Module contents**

This course provides a practical guideline to CGE modeling. We start with the formulation of a simple stylized CGE model for open economies and lay out how such a model can be matched (calibrated) to empirical data. We will then discuss several refinements of our prototype model to investigate contemporary policy issues such as environmental tax reforms or trade restrictions (e.g. the implementation of import tariffs and quotas). The single country model will be subsequently extended towards a multi-region model framework which accommodates to investigate in appropriate detail the economic impacts of multilateral policy initiatives such as trade policy reforms or international climate agreements.

**Recommended reading**

**Links**

**Language of instruction**

English

**Duration (semesters)**

1 Semester

**Module frequency**

jährlich/annual

**Module capacity**

14

**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

**Examination times**

Type of examination

Final exam of module

end of semester

aus der Prüfungsordnung zu entnehmen - to be taken from the examination regulations

**Type of course**

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**Total module attendance time**

56 h
## wir849 - Advanced Entrepreneurship

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<tr>
<td>Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
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<tr>
<td>Responsible persons</td>
<td></td>
</tr>
<tr>
<td>Nicolai, Alexander (module responsibility)</td>
<td></td>
</tr>
<tr>
<td>Lehrenden, Die im Modul (authorised to take exams)</td>
<td></td>
</tr>
<tr>
<td>Prerequisites</td>
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</tr>
<tr>
<td>Skills to be acquired in this module</td>
<td>The students will learn the fundamentals of the topic Entrepreneurship, including the challenges of founding enterprises and entrepreneurial action in established companies.</td>
</tr>
<tr>
<td>Module contents</td>
<td>This module deals with the development of business ideas and its realization in business models as well as its perception and evaluation. The content of the lecture further includes issues relating to team-building, resources, and finance, as well as establishing a business plan, the question of the appropriate legal form of an organization, and the specific challenges in the growth stage. Particular aspects will be amplified by guest lecturers from companies.</td>
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<td>Links</td>
<td><a href="http://www.uni-oldenburg.de/wire/entrepreneurship/lehrangebot/veranstaltungen/">http://www.uni-oldenburg.de/wire/entrepreneurship/lehrangebot/veranstaltungen/</a></td>
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<td>Module capacity</td>
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<td>Reference text</td>
<td>The module consists of a lecture and a seminar. Alternatively, in this module the seminar Eco-Venturing Projekt- und Präsenzseminar are offered.</td>
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</tbody>
</table>

### Recommended reading

- http://www.uni-oldenburg.de/wire/entrepreneurship/lehrangebot/veranstaltungen/

### Module level

- Type of module
- Teaching/Learning method
- Previous knowledge

### Module contents

This module deals with the development of business ideas and its realization in business models as well as its perception and evaluation. The content of the lecture further includes issues relating to team-building, resources, and finance, as well as establishing a business plan, the question of the appropriate legal form of an organization, and the specific challenges in the growth stage. Particular aspects will be amplified by guest lecturers from companies.

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- Previous knowledge

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- Teaching/Learning method
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### Recommended reading

- The module consists of a lecture and a seminar. Alternatively, in this module the seminar Eco-Venturing Projekt- and Präsenzseminar are offered.
### Module label
Complex Data Analysis

### Module abbreviation
wir891

### Credit points
6.0 KP

### Workload
180 h

### Applicability of the module
- Master Applied Economics and Data Science (Master) > Empirical Methods
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule AFT - Methoden
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM - Methoden
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule UF - Methoden
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules

### Responsible persons
- Stecking, Ralf Werner (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)

### Prerequisites

### Skills to be acquired in this module
With successful completion of the course, students shall be able to analyze complex empirical data sets, like aggregated data, privacy constrained data, distance information, distributions, tables, symbolic or granular data. Students will also learn to handle issues of big data challenges: large number of cases or variables, unknown dependencies, redundancy, missing values, small or no variance. In this course students will learn theoretical aspects of complex data analysis, as well as practical applications for real data sets with statistical software packages.

### Module contents
Principal Component Analysis, Correspondence Analysis, Cluster Analysis, Linear Discriminant Analysis, Multidimensional Scaling, CART, Symbolic Data Analysis

### Recommended reading

### Links

### Languages of instruction
German, English

### Duration (semesters)
1 Semester

### Module frequency

### Module capacity
unlimited

### Module level

### Type of module

### Teaching/Learning method

### Previous knowledge

### Examination
- **Examination times**
- **Type of examination**

### Final exam of module
- Am Ende der Vorlesungszeit
- Klausur oder Mündliche Prüfung oder Hausarbeit oder Referat

### Type of course
- **Comment**
- **SWS**
- **Frequency**
- **Workload of compulsory attendance**

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<td>Seminar</td>
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### Total module attendance time
56 h
### wir950 - Research Workshop: Dilemmas of Sustainability

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| **Applicability of the module** | - Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL  
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules |
| **Responsible persons** | - Wolter, Hendrik (module responsibility)  
- Lehrenden, Die im Modul (authorised to take exams)  
- Lehrenden, Die im Modul (Module counselling) |
<p>| <strong>Prerequisites</strong> | None |
| <strong>Skills to be acquired in this module</strong> | The students ... |
| <strong>Module contents</strong> | Solving the complex ecological and social challenges of our time requires complex scientific approaches. This is the field in which research on sustainable development operates. Due to the diversity of problems, this type of research is particularly oriented towards thinking beyond purely delimited scientific disciplines. Research on sustainable development has to interlink different fields of thought and disciplines in an interdisciplinary manner and involve social actors in research processes in a transdisciplinary sense. The complexity of such projects, however, is often a source of tension, since the plurality of forms of knowledge, opinions and objectives involved can quickly lead to a loss of clarity in what is understood by sustainable development, or even to contradictions. This can lead to dilemmas, which can challenge those involved with seemingly unsolvable problems. What exactly these dilemmas of sustainability can look like, how they arise and how they can be dealt with in the context of research projects is the focus of the scientific examination in this module. |
| <strong>Links</strong> | |
| <strong>Language of instruction</strong> | German |
| <strong>Duration (semesters)</strong> | 1 Semester |
| <strong>Module frequency</strong> | Annually |
| <strong>Module capacity</strong> | 30 |
| <strong>Module level</strong> | EB (Ergänzungsbereich / Complementary) |
| <strong>Type of module</strong> | Ergänzung/Professionalisierung |</p>
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# Abschlussmodul

## kolloquium - Forschungskolloquium

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<td>- Master's Programme Sustainability Economics and Management (Master) &gt; Abschlussmodul</td>
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### Responsible persons

### Prerequisites

### Skills to be acquired in this module

### Module contents

### Recommended reading

### Links

### Languages of Instruction

### Duration (semesters)

### Module frequency

### Module capacity

### Module level

### Type of module

### Teaching/Learning method

### Previous knowledge

### Examination

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### Final exam of module

### Type of course

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### SWS

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### On-site workload

| 0 h       |
### mam - Master´s Thesis Module

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**Responsible persons**

**Prerequisites**

**Skills to be acquired in this module**

**Module contents**

**Recommended reading**

**Links**

**Languages of instruction**

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**Module level**

**Type of module**

**Teaching/Learning method**

**Previous knowledge**

**Examination**

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**Type of course**

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**SWS**

**Frequency**

**On-site workload**

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Akzentmodule

wir889 - Applied Environmental Economics

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<td>Workload</td>
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**Applicability of the module**
- Master Applied Economics and Data Science (Master) > Economics
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-VWL
- Master's Programme Environmental Modelling (Master) > Mastermodule
- Master's Programme Sustainability Economics and Management (Master) > Akzentmodule

**Responsible persons**
- Lehrenden, Die im Modul (authorised to take exams)
- Huse, Cristian (module responsibility)
- Huse, Cristian (Module counselling)

**Prerequisites**

**Skills to be acquired in this module**
- Be able to conceptually understand and apply key empirical tools used by any economist (and other professionals) in Environmental, Energy, and Transport Economics.
- Be able to perform and critically evaluate an empirical analysis.

**Module contents**
- Econometric methods (discrete choice); Welfare analysis; Valuation; Types of data; Cost-benefit analysis.

**Recommended reading**

**Links**
- Language of instruction: English
- Duration (semesters): 1 Semester
- Module frequency: 60
- Module level: 
- Type of module: 
- Teaching/Learning method: 
- Previous knowledge: 
- Examination: Final exam of module
  - Examination times: At the end of the lecture period
  - Type of examination: Portfolio
- Type of course: Lecture
- SWS: 4
- Frequency: SoSe oder WiSe
- On-site workload: 56 h
wir913 - Practical Project in Sustainability Economics and Management

Module label: Practical Project in Sustainability Economics and Management
Module abbreviation: wir913
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's Programme Sustainability Economics and Management (Master) > Akzentmodule

Responsible persons:
- Siebenhüner, Bernd (authorised to take exams)
- Busse, Christian (authorised to take exams)
- Siebenhüner, Bernd (module responsibility)

Prerequisites:
No

Skills to be acquired in this module:
- Methods of project management
- Introduction into the methods of qualitative empirical research
- Introduction into approaches to time management
- Identification of individual or team projects in sustainability management (case studies, empirical studies, marketing concepts)
- Self organized work on individual or team projects
- Mid-term and final presentation of project results

Module contents:
This module consists of two seminars (2 weekly contact hours per seminar) dealing with several topics from the broad field of sustainability, economics and management during term.

The module's intention is to integrate current research activities of the University from the research areas of sustainability, economics and management into teaching activities. The Module provides students the possibility to actively participate in current research at Oldenburg University. The module's seminars each year deal with different projects and are thus designed each year by a different group of Oldenburg located researchers. This teaching concept provides the interface between theory and application of scientific theories into research practise. Thus, this module also introduces research work at universities in general.

Recommended reading:
Depending on the topic and content of each seminar

Links:
- Language of instruction: English
- Duration (semesters): 1 Semester
- Module frequency: jährlich
- Module capacity: unlimited
- Module level:Type of module
- Teaching/Learning method:
- Previous knowledge:
- Examination
- Examination times
- Type of examination
- Final exam of module: to be announced during the seminar
- Type of examination: KL
- Type of course: Course or seminar

SWS: 4
Frequency: SoSe und WiSe
On-site workload: 56 h
wir921 - Sustainable Supply Chain Management

Module label | Sustainable Supply Chain Management
Module abbreviation | wir921
Credit points | 6.0 KP
Workload | 180 h

Applicability of the module
- Master Applied Economics and Data Science (Master) > Specialization
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's Programme Sustainability Economics and Management (Master) > Akzentmodule

Responsible persons
- Busse, Christian (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Busse, Christian (Module counselling)

Prerequisites

Skills to be acquired in this module
By focusing on sustainability from an intra-, and inter-organizational perspective, this module aims to equip students with an in-depth knowledge of the sustainability-related challenges and problems within supply chain management and suggests some tools for managing the same. It further seeks to capacitate students to understand and analyze the trade-offs and conflicts of targets within sustainable supply chain management. The content is closely linked to the latest research in the field, providing a theoretical understanding (within the lecture) while using real-world case examples (within the seminar) to develop a practical understanding simultaneously. Students will be able to connect theory with practice and get a taste of real-life corporate scenarios or lay a foundation for possible master theses. Further, working in groups will help students brush up their team management skills, and the final report shall accustom them to the intricacies of scientific writing.

Module contents
This masters-level module focuses on how firms could practically manage sustainability in its supply chains. Two broader perspectives, as detailed below, guide the coursework:

1) The material flow perspective approaches SSCM with sustainably managing physical flows and processes within a firm's operations and upstream (and downstream) supply chain links. Individual (lecture) sessions are built around the following topics: Introduction to Sustainability and Supply Chain Management; Introduction to Sustainable Supply Chain Management; Sustainable Product Development & Lean and Green; Workplace Health and Safety; Sustainable Transportation; Sustainable Warehousing & Sustainable Packaging; and Closed-Loop Supply Chain Management

2) The relationship perspective further adopts a more direct managerial viewpoint on inter-firm relations. Individual (lecture) sessions discuss the following topics: Stakeholder Management; Legitimacy, Decoupling & Greenwashing; Supply Chain Sustainability Risks; Sustainable Supplier Management; and Supply Chain Sustainability Dilemmas

Some of the theoretical perspectives discussed within the lecture sessions will be prepared by case studies of well-known companies such as Walmart, DHL, HP, Volkswagen, Lidl, and Apple.

Recommended reading
The lecture content has been developed from various research publications, rather than a textbook. Students are encouraged to read some of the original publications as amendments to the lecture. The case studies will mostly be based on professionally written cases. Scholarly publications/articles, as well as the case study documents, will be provided and discussed throughout the sessions.

Links
Language of instruction | English
Duration (semesters) | 1 Semester
Module frequency | Yearly in the summer term
Module capacity | unlimited
Reference text
This module is offered in the summer term. For a more detailed description of course content and organization, please note the syllabus that will be made
available via Stud.IP before the beginning of the course.

<table>
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<tr>
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<td>Examination times</td>
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<td>Type of examination</td>
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<tbody>
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wir895 - Industrial Organization

Module label: Industrial Organization
Module abbreviation: wir895
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master Applied Economics and Data Science (Master) > Economics
- Master's programme Business Administration: Management and Law (Master) > Basismodule
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule UF - VWL
- Master's Programme Sustainability Economics and Management (Master) > Akzentmodule

Responsible persons:
- Huse, Cristian (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Huse, Cristian (Module counselling)

Prerequisites:

Skills to be acquired in this module:
Be able to conceptually understand, critically evaluate, and apply methods used economists to study the behaviour of firms, consumers, and their interaction.

Module contents:
Econometric methods; models of firm behaviour; models of consumer behaviour; regulation; applications.

Recommended reading:

Language of instruction: English
Duration (semesters): 1 Semester
Module capacity: 30
Module level:

Type of module:
Vorlesung und Übung

Examination:
Examination times:
Type of examination:
Final exam of module:
At the end of the lecture period
Portfolio

Type of course:
Vorlesung und Übung

Frequency:
SoSe oder WiSe

On-site workload:
56 h
wir898 - Strategic Sustainability Management

Module label: Strategic Sustainability Management
Module abbreviation: wir898
Credit points: 6.0 KP
Workload: 180 h

Applicability of the module:
- Master Applied Economics and Data Science (Master) > Specialization
- Master's programme Business Administration: Management and Law (Master) > Kernmodule CHI
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule NM-BWL
- Master's programme Business Administration: Management and Law (Master) > Schwerpunktmodule RdW - BWL
- Master's Programme Business Informatics (Master) > Module der Wirtschafts- und Rechtswissenschaften (Master)
- Master's Programme Sustainability Economics and Management (Master) > Akzentmodule

Responsible persons:
- Hoppmann, Jörn (module responsibility)
- Lehrenden, Die im Modul (authorised to take exams)
- Hoppmann, Jörn (Module counselling)

Prerequisites:

Skills to be acquired in this module:
The students should...
- know and understand basic concepts, instruments and theories in the context of corporate sustainability and corporate social responsibility
- be able to apply conceptual frameworks to analyze and critically question the sustainability of companies
- develop options to improve the sustainability of companies and derive recommendations for their implementation in practice

Module contents:
The module "Strategic Sustainability Management" provides an overview of the debates on the role of firms for sustainable development from a strategic perspective. The first session will briefly introduce the historical debate on Corporate Sustainability and Corporate Social Responsibility and delineate important concepts. The following sessions will use concrete company case studies as a basis for a critical discussion of questions in the context of corporate sustainability that are of strategic importance for firms. Questions that will be discussed are, amongst others:

- How can one determine whether a firm acts in a socially and ecologically sustainable way?
- Which factors drive and hinder the diffusion of socially and ecologically superior solutions and companies in the market?
- To which extent is there a conflict between firm and market growth on the one hand and sustainability on the other hand?
- Which possibilities does a company have to deal with conflicts between social/ecological and economic goals?
- How can existing firms and value chains be transformed toward sustainability?
- What is the role of managers and boards of directors for organizational change toward sustainability?
- How does the ownership and financial structure of firms influence their strategy toward sustainability?
- In how far can cooperation and partnerships between organizations help integrate social and ecological aspects in 53 firms?

In addition to discussing these questions by drawing on company case studies, students will be introduced to the corresponding theoretical concepts and frameworks in the academic literature. Also, students will be given the opportunity to test different strategies for implementing sustainability in organizations during a simulation, which allows them to gain first-hand insights into the emerging challenges. Toward the end of the course, students will apply and deepen the knowledge they have gathered over the semester by writing a seminar thesis.

Recommended reading

Links

Languages of instruction: German, English

Duration (semesters): 1 Semester

118 / 120
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<thead>
<tr>
<th>Module frequency</th>
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