Modulhandbuch

Water and Coastal Management - Master's Programme

im Wintersemester 2023/2024

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# General foundations

**wcm110 - Case Study**

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<tr>
<td>Modulkürzel</td>
<td>wcm110</td>
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<tr>
<td>Credit points</td>
<td>12.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>360 h</td>
</tr>
<tr>
<td>Verwendbarkeit des Moduls</td>
<td>- Master's Programme Water and Coastal Management (Master) &gt; General foundations</td>
</tr>
</tbody>
</table>
| Zuständige Personen | - Mose, Ingo (Prüfungsberechtigt)  
                     | - Siebenhüner, Bernd (module responsibility)  
                     | - Mose, Ingo (module responsibility) |
| Prerequisites      | None                                            |
| Skills to be acquired in this module | The students shall carry out a Case Study independently, dealing with scientific questions regarding Coastal Zone Management. |
| Module contents    | Selected Topics of the development of the coastal area and coastal zone management in form of a Case Study near Oldenburg (for example the East Frisian Islands, Bremerhaven). |
| Literatureempfehlungen | A list of relevant literature will be provided at the beginning of the course. |
| Language of instruction | English                                   |
| Duration (semesters) | 1 Semester                                    |
| Module frequency   | halbjährlich                                   |
| Module capacity    | unlimited                                      |
| Reference text     | Literature and information from public media, interviews with stakeholders etc. |
| Modullevel / module level |                                          |
| Modulart / typ of module |                                             |
| Lehr-/Lernform / Teaching/Learning method |                                   |
| Vorkenntnisse / Previous knowledge |                                             |
| Examination        | Prüfungszeiten | Type of examination |
| Final exam of module | Seminar                                          |
| Form of instruction | Seminar                                          |
| SWS                | 4 / 42                                          |
| Frequency          |                                               |
| Workload Präsenzzeit | 0 h                                             |
# Master thesis period

**wcm290 - Planning Theory**

<table>
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<tbody>
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<td>5.0 KP</td>
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<tr>
<td>Workload</td>
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**Verwendbarkeit des Moduls**
- Master's Programme Water and Coastal Management (Master) > Master thesis period

**Zuständige Personen**

**Prerequisites**

**Skills to be acquired in this module**

The aim of the planning theory course is to gain more in-depth knowledge of the theoretical background of planning in such a way that the student can identify suitable existing planning and decision-making models for issues at hand. The student will also be able to picture a planning issue within a theoretical frame, through which an approach and its consequences can be deducted.

**Module contents**

This course starts with current and on-going planning theoretical discussions, seen in the light of philosophical critique and general scientific abstractions. These abstractions are amongst others obtained from theories such as systems theory, complexity theory, critical theory, social constructivism and discourse theory. This confrontation will bring us the basic arguments upon which planning is built. It will help us understand and critically reflect on current decision-making models, such as the classic technical rational approaches, contingency approaches, scenario approaches, the late modern communicative approaches in planning, the so-called models for complex decision-making and transition management. This will give us substantial depth in understanding how planning and decision-making works. As such, we want to support decision-making processes in planning through object-oriented and inter-subjective analysis in complex and very complex situations. The result is an advanced tool box to cope with simple, complex and very complex planning issues, both linear and non-linear, to tackle these issues in a thorough way, and to help us to make use of and design planning and decision-making models for particular situations.

**Literaturrempfehlungen**

**Links**


See [Groningen](https://www.rug.nl/) for more information about this course.

**Modullevel / module level**

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

**Examination**

<table>
<thead>
<tr>
<th>Prüfungszeiten</th>
<th>Type of examination</th>
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<tr>
<td>Final exam of module</td>
<td>Examination with multiple choice questions, Examination with open questions</td>
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</table>

**Form of instruction**

Seminar

**SWS**

**Frequency**

**Workload Präsenzzzeit**

0 h
### Module Information

**Module label**
Environmental and Infrastructure Planning (EIP) Interactive Workshop

**Modulkürzel**
wcm300

**Credit points**
5.0 KP

**Workload**
150 h

**Verwendbarkeit des Moduls**
- Master's Programme Water and Coastal Management (Master) > Master thesis period

**Zuständige Personen**

**Prerequisites**

**Skills to be acquired in this module**
The course engages students interactively with seminal texts within environmental and infrastructure planning and enhances critical thinking on contemporary planning debates in theory and practice.

**Module contents**

**Originalfassung**
On completion of the course learners will be able to: (1) critically compare and cross reference central arguments and relevant examples from seminal theoretical texts within environmental and infrastructure planning; and (2) read, distil and write summaries of key journal articles, present ideas effectively using presentation software and develop their critical perspectives on contemporary planning debates for planning practice. Following mini-lectures by the instructor learners present their ideas, with feedback from the instructor and fellow learners, stimulating a depth and critical engagement with the central ideas with reference to relevant examples. Topics include: collaborative planning and governance (e.g. Patsy Healey), rationality and power (e.g. Bent Flyvbjerg), complexity theory and planning (e.g. Juval Portugali), institutions and institutional change (e.g. Alexander).

**Literaturempfehlungen**

**Links**

**Languages of instruction**

**Duration (semesters)**
1 Semester

**Module frequency**
unlimited

**Module capacity**

**Reference text**
This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen.

See [https://www.rug.nl/ocasys/frw/vak/show?code=GEMEIPWSH5](https://www.rug.nl/ocasys/frw/vak/show?code=GEMEIPWSH5) for more information about this course.

**Modullevel / module level**

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

**Examination**

<table>
<thead>
<tr>
<th>Prüfungszeiten</th>
<th>Type of examination</th>
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<tbody>
<tr>
<td></td>
<td>Assignments, Presentation (Pre-class assignments, participation in-class, presentation, final assignment)</td>
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**Form of Instruction**
Seminar

**SWS**

**Frequency**

**Workload Präsenzzeit**
0 h
Planning

wcm140 - Planning and Management of Coastal Zones and Sea Basins

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<tr>
<td></td>
<td>- Master's Programme Sustainability Economics and Management (Master) &gt; Additional Modules</td>
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<td>- Master's Programme Water and Coastal Management (Master) &gt; Planning</td>
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<tr>
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<td>- Mose, Ingo (Prüfungsberechtigt)</td>
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<tr>
<td></td>
<td>- Karrasch, Leena (Prüfungsberechtigt)</td>
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<td></td>
<td>- Karrasch, Leena (Module counselling)</td>
</tr>
<tr>
<td></td>
<td>- Siebenhüner, Bernd (module responsibility)</td>
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<td></td>
<td>- Mose, Ingo (module responsibility)</td>
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<tr>
<td>Prerequisites</td>
<td>None</td>
</tr>
<tr>
<td>Skills to be acquired in this module</td>
<td>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.</td>
</tr>
<tr>
<td>Module contents</td>
<td>Coastal Zone Management Basic demands and questions of Coastal Zone Management in a spatial planning perspective.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

Literaturempfehlungen

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

Modullevel / module level

Modulart / typ of module

Lehr-/Lernform / Teaching/Learning method

Vorkenntnisse / Previous knowledge

Examination | Prüfungszeiten | Type of examination
Final exam of module

Form of instruction | Seminar

SWS

Frequency

Workload Präsenzzzeit | 0 h
**wcm150 - River Development, Water Management and Conservation**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>wcm150</td>
</tr>
<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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**Verwendbarkeit des Moduls**
- Master's Programme Water and Coastal Management (Master) > Planning

**Zuständige Personen**
- Siebenhüner, Bernd (module responsibility)
- Mose, Ingo (module responsibility)
- Mose, Ingo (Prüfungsberechtigt)

**Prerequisites**
None

**Skills to be acquired in this module**
The participants shall gain a differentiated understanding of the planning challenges of Water and River Management using selected national and international examples. While so, they will be granted insight to actual planning tasks and the implemented conflicts and get into contact with concerned stakeholders.

**Module contents**
- Greater London and the River Thames
  Selected questions of Water and River Management on the example of the River Thames in the Greater London Area, for example drinking water production, flood protection, nature conservation, water-oriented leisure activities and the revitalization of the (former) ports of London.
- Bremen and the River Weser
  Selected questions of Water and River Management on the example of the River Weser in the Bremen area, for example flood protection, nature conservation, water-oriented leisure activities and the revitalization of the former ports of Bremen.

**Literaturempfehlungen**
A list of relevant literature will be provided at the beginning of the course.

**Language of instruction**
English

**Duration (semesters)**
2 Semester

**Module frequency**
halbjährlich

**Module capacity**
unlimited

**Reference text**
Visit of sites representative for good practice in River and Water Management; interaction and discussion with local researchers and practitioners

**Modullevel / module level**

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

<table>
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<tr>
<th>Examination</th>
<th>Prüfungszeiten</th>
<th>Type of examination</th>
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</thead>
<tbody>
<tr>
<td>Final exam of module</td>
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**Form of instruction**
Seminar

**SWS**

**Frequency**

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<td>wcm310 - GIS for WCM</td>
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<tr>
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<td><strong>Workload</strong></td>
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</tr>
<tr>
<td><strong>Prerequisites</strong></td>
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<tr>
<td><strong>Skills to be acquired in this module</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Module contents</strong></td>
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<tr>
<td><strong>Literaturempfehlungen</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Links</strong></td>
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<tr>
<td><strong>Languages of Instruction</strong></td>
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<td><strong>Duration (semesters)</strong></td>
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<td><strong>Module frequency</strong></td>
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<td><strong>Module capacity</strong></td>
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<td><strong>Modulart / typ of module</strong></td>
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<tr>
<td><strong>Lehr-/Lernform / Teaching/Learning method</strong></td>
<td></td>
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<td><strong>Vorkenntnisse / Previous knowledge</strong></td>
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<tr>
<td><strong>Examination</strong></td>
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<td><strong>Final exam of module</strong></td>
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<td><strong>Form of instruction</strong></td>
<td>Seminar</td>
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<td><strong>SWS</strong></td>
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<td><strong>Frequency</strong></td>
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<tr>
<td><strong>Workload Präsenzzzeit</strong></td>
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</table>
## Module label
Sustainable Spatial Development in Europe

## Modulkürzel
lök320

## Credit points
6.0 KP

## Workload
180 h

## Verwendbarkeit des Moduls
- 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

## Zuständige Personen
- Mose, Ingo (module responsibility)
- Mose, Ingo (Module counselling)
- Mose, Ingo (Prüfungsberechtigt)
- Klenke, Thomas (Prüfungsberechtigt)
- Kramer, Nadine (Prüfungsberechtigt)
- Schaal, Peter (Prüfungsberechtigt)

## 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.

## Module contents

<table>
<thead>
<tr>
<th>Content</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>SE/EX Multifunctionality and rural development (3 CP)</td>
<td></td>
</tr>
<tr>
<td>V Topical issues of agriculture and nutrition (1.5 CP)</td>
<td></td>
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<tr>
<td>SE/EX Sustainable tourism (3 CP)</td>
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<tr>
<td>SE/EX Renewable energy planning (3 CP)</td>
<td></td>
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<tr>
<td>V Colloquium on sustainable spatial development (1.5 CP)</td>
<td></td>
</tr>
<tr>
<td>SE Special subject job market: Job market and inequality in Europe</td>
<td></td>
</tr>
<tr>
<td>(3 CP) - This course (1.07.211 / FK I) takes place in the summer</td>
<td></td>
</tr>
<tr>
<td>semester.</td>
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</table>

**Multifunctionality and rural development**
Survey of the multifunctionality of rural areas, especially the importance of agriculture and forestry, tourism and recreational activities, habitation, and protection of nature as well as the demands on spatial planning and regional development involved under the conditions of sustainability. Illustration by means of selected examples in a European context.

**Agriculture and agricultural policy**
Survey of EU agricultural policy programmes and their strategic-instrumental implementation as well as of selected topics of current developments in agriculture presented by various guest lecturers.

**Sustainable tourism**
Presentation of various concepts of sustainable tourism and its realization from the viewpoint of offer and demand. Illustration by means of selected examples in a European context.

**Renewable energy planning**
Survey of different forms of renewable energy and related demands on spatial development seen from a mainly planning and actor-orientated point of view. Illustration by means of selected examples in a European context.

**Colloquium on sustainable spatial development**
Survey of up-to-date theoretical approaches, concepts, instruments as well as practical fields of activities in sustainable spatial development in a national and European context.

**Special subject job market: Job market and inequality**
This course (1.07.211 / FK I) takes place in the summer semester. Three one-day excursions with varying emphasis will be performed in the vicinity of Oldenburg as an integral part of the module seminars.

## Literatureempfehlungen
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 / module level

Modulart / typ of module

Lehr-/Lernform / Teaching/Learning method

Vorkenntnisse / Previous knowledge

Examination
Prüfungszeiten
Type of examination

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

Form of instruction
Comment
SWS
Frequency
Workload of compulsory attendance

Lecture
2
28

Seminar
6
84

Study trip
2
28

Präsenzzzeit Modul insgesamt
140 h
### wir880 - Marine & Maritime Law

<table>
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<tr>
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#### Verwendbarkeit des Moduls

- 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
- Master's Programme Water and Coastal Management (Master) > Planning

#### Zuständige Personen

- Godt, Christine (module responsibility)
- Lehrenden, Die im Modul (Prüfungsberechtigt)

#### Prerequisites

**Skills to be acquired in this module**

Die Studierenden müssen folgende Fähigkeiten entwickeln und anwenden:

- Erwerben Kenntnisse des maritimen (zivilistischen) und des marinen (öffentlichlen) 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.

#### Module contents


#### Literaturempfehlungen


#### Links

- **Language of instruction**: English
- **Duration (semesters)**: 1 Semester
- **Module frequency**: jährlich
- **Module capacity**: unlimited
- **Modullevel / module level**: Modulart / typ of module
- **Lehr-/Lernform / Teaching/Learning method**
<table>
<thead>
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<th>Vorkenntnisse / Previous knowledge</th>
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<tr>
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<td>Prüfung</td>
<td>Während der Vorlesungszeit</td>
<td>Referat oder Hausarbeit oder mündliche Prüfung</td>
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<td>56 h</td>
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wcm190 - Selected Topics in Environmental Sciences

Module label: Selected Topics in Environmental Sciences

Modulkürzel: wcm190

Credit points: 6.0 KP

Workload: 180 h

Verwendbarkeit des Moduls
- Master's Programme Water and Coastal Management (Master) > Science

Zuständige Personen
- Siebenhüner, Bernd (module responsibility)
- Klenke, Thomas (module responsibility)
- Freund, Holger (Module counselling)
- Giani, Luise (Module counselling)
- Peinke, Joachim (Module counselling)
- Buchwald, Rainer (Module counselling)
- Massmann, Gudrun (Module counselling)
- Giani, Luise (Prüfungsberechtigt)
- Klenke, Thomas (Prüfungsberechtigt)
- Freund, Holger (Prüfungsberechtigt)
- Peinke, Joachim (Prüfungsberechtigt)
- Buchwald, Rainer (Prüfungsberechtigt)
- Massmann, Gudrun (Prüfungsberechtigt)

Prerequisites: None

Skills to be acquired in this module
- In-depth knowledge about processes and systems relevant for sustainable management using knowledge and methodologies from all science disciplines in an integrated way.
- Familiarity with approaches to problem-driven, transdisciplinary research and management.
- Ability to present and evaluate different concepts of environmental science for sustainable management.
- Skills in elaborating on complex tasks of environmental management using an interdisciplinary science based approach and to present related findings to non-expert audiences.

Module contents
- Problem-driven learning about environmental science in different scientific contexts of water management and regional development.
- Studies to understanding the complexity of sustainability and science in management. Use of relevant methods in the field or lab.
- Discussing topics of environmental sciences with researchers, students and practitioners from different scientific disciplines or sectors.

Literatureempfehlungen
- 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: halbjährlich
- Module capacity: unlimited
- Reference text: Lecture room presentations and discussions based on slides and black/white board usage. Short films will be presented. Practical work.

Modullevel / module level

Modulart / typ of module

Lehr-/Lernform / Teaching/Learning method

Vorkenntnisse / Previous knowledge

Examination

Final exam of module

Form of instruction: Seminar

SWS

Frequency

Workload Präsenzzzeit: 0 h
### wcm350 - Bioenergy

<table>
<thead>
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<th>Module label</th>
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<tbody>
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<td>wcm350</td>
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<tr>
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<td>6.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>180 h</td>
</tr>
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</table>

**Verwendbarkeit des Moduls**
- Master's Programme Water and Coastal Management (Master) > Science

**Zuständige Personen**

**Prerequisites**

**Skills to be acquired in this module**

The module is intended to enable students to deal with different forms of bioenergy and their current perspectives. In doing so, they gain competences in the basic natural sciences of physics, chemistry and biology as well as in terms of energetic, technical, ecological and economic aspects, which must be taken into account for the synoptic evaluation of different forms of bioenergy.

**Module contents**

The module gives an insight into the historical origin and development, the scientific, procedural, energetic, ecological (including nature conservation) and economic fundamentals of bioenergy. Special attention is given to the perspectives of different forms of bioenergy, thus equally to their possibilities and limitations. a) Lecture "Perspectives of Bioenergy" (compulsory part) b) Seminar "Forms and Examples of Bioenergy" (optional to c) c) Exercise "Practical Bioenergy" (optional to b)

**Literaturempfehlungen**

**Links**

**Language of instruction** English

**Duration (semesters)** 1 Semester

**Module frequency** halbjährlich

**Module capacity** unlimited

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

**Final exam of module**

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<th>Type of examination</th>
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**Form of instruction** Lecture

**SWS** 2

**Frequency**

**Workload Präsenzzzeit** 28 h
**Practice of Nature Conservation**

**Module label**
Practice of Nature Conservation

**Module code**
lök210

**Credit points**
6.0 KP

**Workload**
180 h

**Verwendbarkeit des Moduls**
- Master's Programme Landscape Ecology (Master) > Vertiefungsmodul zweites Fachsemester
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Water and Coastal Management (Master) > Science

**Zuständige Personen**
- Buchwald, Rainer (module responsibility)
- Mose, Ingo (module responsibility)
- Buchwald, Rainer (Module counselling)
- Mose, Ingo (Module counselling)
- Buchwald, Rainer (Prüfungsberechtigt)
- Dörfler, Inken (Prüfungsberechtigt)
- Mose, Ingo (Prüfungsberechtigt)
- Fartmann, Thomas (Prüfungsberechtigt)
- Janßen, Hans-Joachim, Dipl.-Ing. (Prüfungsberechtigt)

**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 (e.g. 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, faunistic, historical, agricultural, and nature conservation aspects as well as aspects of landscape and economics

**Literaturempfehlungen**

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

**Languages of instruction**
German, English

**Duration (semesters)**
1 Semester
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<td>Präsenzzzeit Modul insgesamt</td>
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wir905 - Environmental Sciences

Module label: Environmental Sciences
Modulkürzel: wir905
Credit points: 6.0 KP
Workload: 180 h

Verwendbarkeit des Moduls
- Master's Programme Computing Science (Master) > Module aus anderen Studiengängen
- Master's Programme Sustainability Economics and Management (Master) > Basic and Accentuation Modules
- Master's Programme Water and Coastal Management (Master) > Science

Zuständige Personen
- Freund, Holger (Module counselling)
- Köster, Jürgen (Module counselling)
- Dozent, Gast (Module counselling)
- Klenke, Thomas (Prüfungsberechtigt)
- Freund, Holger (Prüfungsberechtigt)
- Köster, Jürgen (Prüfungsberechtigt)
- Klenke, Thomas (module responsibility)

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.

Literaturempfehlungen
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
Modullevel / module level

Vorlesungs-/Lernform / Teaching/Learning method

Vorkenntnisse / Previous knowledge

Examination Prüfungszeiten Type of examination
Final exam of module By the end of the lecture period. Presentation/discussion and written report on a case;
### Type of examination

<table>
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### Form of instruction

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### Präsenzzeit Modul insgesamt

56 h
## Iök290 - Perspectives of Bioenergy

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<td>Workload</td>
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**Verwendbarkeit des Moduls**
- Master's Programme Landscape Ecology (Master) > Vertiefungsmodule zweites Fachsemester
- Master's Programme Water and Coastal Management (Master) > Science

**Zuständige Personen**
- Buchwald, Rainer (module responsibility)
- Buchwald, Rainer (Module counselling)
- Klenke, Thomas (Module counselling)
- Wark, Michael (Module counselling)
- Buchwald, Rainer (Prüfungsberechtigt)
- Klenke, Thomas (Prüfungsberechtigt)
- Pehlken, Alexandra (Prüfungsberechtigt)
- Wark, Michael (Prüfungsberechtigt)

**Prerequisites**
Bachelor studies of Natural Science, Environmental Science or Economics

**Skills to be acquired in this module**
The module qualifies students to deal with the different forms of bioenergy and their current perspectives. Hereby, they acquire competences in the scientific basal subjects of physics, chemistry, and biology as well as with respect to the energetic, technical, ecological, and economic aspects that have to be considered for a synoptic assessment of different forms of bioenergy.

**Module contents**
Das Wahlpflichtmodul gibt einen Einblick in die historische Entstehung und Entwicklung, die naturwissenschaftlichen, verfahrenstechnischen, energetischen, ökologischen (incl. naturschutzfachlichen) und ökonomischen Grundlagen der Bioenergie. Besonderes Augenmerk wird auf die Perspektiven verschiedener Formen der Bioenergie, gelegt, damit gleichermaßen auf ihre Möglichkeiten und Grenzen.

a) Vorlesung "Perspektiven der Bioenergie" (Pflichtteil)
b) Seminar "Formen und Beispiele der Bioenergie" *(wahlweise zu c)*
c) Übung "Praktische Bioenergie" *(wahlweise zu b)*

**Literaturempfehlungen**

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

**Languages of instruction**
German, English

**Duration (semesters)**
1 Semester

**Module frequency**
jährlich

**Module capacity**
unlimited

**Modullevel / module level**

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

**Examination**
*Prüfungszeiten*  
*Type of examination*

**Final exam of module**
Before the end of the module

**Form of exam of module**

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**Präsenzzeit Modul insgesamt** 84 h
### Socioeconomics

**wir876 - Topics in Economic Research**

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#### Verwendbarkeit des Moduls
- Master Applied Economics and Data Science (Master) > Economics
- Master's Programme Water and Coastal Management (Master) > Socioeconomics

#### Zuständige Personen
- Bitzer, Jürgen (module responsibility)
- Böhringer, Christoph (module responsibility)
- Helm, Carsten (module responsibility)
- Trautwein, Hans-Michael (module responsibility)
- Huse, Cristian (module responsibility)
- Gören, Erkan (module responsibility)
- Asane-Otoo, Emmanuel (module responsibility)
- Lehrenden, Die im Modul (Prüfungsberechtigt)
- Lehrenden, Die im Modul (Module counselling)

#### Prerequisites

**Skills to be acquired in this module**

Students have the opportunity to take an economics module of their choice (worth 6 CP) at the master's level. This can also take place at another university or during studies abroad.

Students are required to:

- independently engage with a topic using scientific methods,
- independently research and make use of current academic literature,
- integrate their topic into an academic discussion.

**Module contents**

This is dependent upon the module chosen.

**Literaturempfehlungen**

**Links**

**Languages of instruction**

**Duration (semesters)** 1 Semester

**Module frequency** halbjährlich

**Module capacity** unlimited

**Modullevel / module level**

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

**Examination**

**Prüfungszeiten**

**Type of examination**

**Final exam of module** will be announced in the first session

term paper or presentation or written exam or oral exam or portfolio.

**Form of instruction**

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**Präsenzzeit Modul insgesamt** 56 h
wir878 - Public Economics and Market Design

**Module label**
Public Economics and Market Design

**Modulkürzel**
wir878

**Credit points**
6.0 KP

**Workload**
180 h

**Verwendbarkeit des Moduls**
- Master Applied Economics and Data Science (Master) > Economics
- Master's programme Social Sciences (Master) > Wahlpflichtmodule anderer Institute und Departments
- Master's Programme Sustainability Economics and Management (Master) > Additional Modules
- Master's Programme Water and Coastal Management (Master) > Socioeconomics

**Zuständige Personen**
- Lehrenden, Die im Modul (Module counselling)
- Helm, Carsten (Module counselling)
- Helm, Carsten (module responsibility)
- Lehrenden, Die im Modul (Prüfungsberechtigt)

**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.

**Literaturempfehlungen**

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

**Languages of instruction**
German, English

**Duration (semesters)**
1 Semester

**Module frequency**
jährlich

**Module capacity**
30

**Reference text**
The seminar will be conducted as a block seminar

**Modullevel / module level**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**
<table>
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Präsenzzeit Modul insgesamt: 56 h
### wir902 - International Sustainability Management

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<td>Workload</td>
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| Verwendbarkeit des Moduls             | - 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 |
| Zuständige Personen                   | - Siebenhüner, Bernd (module responsibility)
- Lehrenden, Die im Modul (Prüfungsberechtigt)
- Wegner, Alkje (Prüfungsberechtigt)
- Sievers-Glotzbach, Stefanie (Prüfungsberechtigt) |
| 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. |
| Literatureempfehlungen                 | BMU/BDI (Eds.) 2002: Sustainability Management in Business Enterprises. CSM, University of Lüneburg (Schaltegger, Herzig, Kleber, 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;
Hutchinson, Andrew, and Frances Hutchinson, 1997 Environmental Business Management: Sustainable Development in the New Millennium. London u.a.: McGraw-Hill;
<p>| Links                                 |                                         |
| Language of instruction               | English                                 |</p>
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<td>Vorkenntnisse / Previous knowledge</td>
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</tr>
<tr>
<td>Examination</td>
<td>Prüfungszeiten</td>
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<td>By the end of the lecture period</td>
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wir906 - Resource and Energy Economics

**Module label**  Resource and Energy Economics

**Modulkürzel**  wir906

**Credit points**  6.0 KP

**Workload**  180 h

**Verwendbarkeit des Moduls**
- Master's Programme Water and Coastal Management (Master) > Socioeconomics

**Zuständige Personen**
- Böhringer, Christoph (module responsibility)
- Huse, Cristian (module responsibility)
- Asane-Otoo, Emmanuel (module responsibility)
- Asane-Otoo, Emmanuel (Module counselling)
- Lehrenden, Die im Modul (Prüfungsberechtigt)

**Prerequisites**  keine

**Skills to be acquired in this module**
- Understanding the (normative) problems of resource use
- Rationales and instruments for policy intervention into (energy) markets
- Command of analytical methods (incl. role of analytical and numerical models in policy analysis)
- Ability to judge energy policy issues based on sound economic analysis (theory)
- Ability to quantify the relevance of arguments (empirics).

**Module contents**
The course deals with the following subjects: Resource economics - Economics of sustainable resource use, methods of resource economics, non-renewable resources, renewable resources Energy economics - Markets and regulation: competitive markets as efficiency benchmark; market failures as a rationale for regulation - Fundamentals of energy system/market analysis: definitions and concepts; energy statistics and balances; elasticities and incidence of policy interference - Market imperfections and regulatory design: environmental externalities, imperfect competition - Electricity markets: supply, demand, market interactions, market failures and regulatory responses

**Methods of teaching:** The course is designed as a lecture that teaches the relevant methods, concepts and models and illustrates them with reference to practical examples.

**Literaturempfehlungen**
- Steven Stoft, Power System Economics : Designing Markets for Electricity, New York 2002;
- IEA: World energy outlook, annual.

**Links**

**Language of instruction**  English

**Duration (semesters)**  1 Semester

**Module frequency**  yearly

**Module capacity**  unlimited

**Modullevel / module level**

**Modulart / typ of module**

**Vorkenntnisse / Previous knowledge**

**Examination**  Prüfungszeiten  Type of examination

**Final exam of module**  Written exam

**Form of instruction**  Comment  SWS  Frequency  Workload of compulsory attendance

**Lecture**  4  56

**Seminar**

**Präsenzzeit Modul insgesamt**  56 h
### wir919 - Topics in Sustainability Economics and Management I

<table>
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**Verwendbarkeit des Moduls**
- 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

**Zuständige Personen**
- Siebenhüner, Bernd (Prüfungsberechtigt)
- Sievers-Glotzbach, Stefanie (Prüfungsberechtigt)
- Wolter, Hendrik (Prüfungsberechtigt)
- Siebenhüner, Bernd (module responsibility)

**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 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.

**Literaturempfehlungen**
Depending on the topic and content of each seminar

**Links**
- English

**Duration (semesters)**
1 Semester

**Module frequency**
yearly

**Module capacity**
unlimited

**Modullevel / module level**

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

**Examiniert / Examination**
- Prüfungszeiten
  - Type of examination
  - Final exam of module to be announced during the seminar
  - Term paper, presentation or oral exam

**Form of instruction**
Seminare

**SWS**
4

**Frequency**

**Workload Präsenzzeit**
56 h
wir939 - Topics in Sustainability Economics and Management II

Module label: Topics in Sustainability Economics and Management II

Modulkürzel: wir939

Credit points: 6.0 KP

Workload: 180 h

Verwendbarkeit des Moduls:
- 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

Zuständige Personen:
- Siebenhüner, Bernd (Prüfungsberechtigt)
- Sievers-Glotzbach, Stefanie (Prüfungsberechtigt)
- Wolter, Hendrik (Prüfungsberechtigt)
- 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.

Literaturempfehlungen:
Depending on the topic and content of each seminar

Links:

Language of instruction: English

Duration (semesters): 1 Semester

Module frequency: jährlich

Module capacity: unlimited

Modullevel / module level:

Modulart / typ of module:

Lehr-/Lernform / Teaching/Learning method:

Vorkenntnisse / Previous knowledge:

Examination:
Prüfungszeiten:
Type of examination:

Final exam of module:
To be announced during the seminar
Term paper, presentation or oral exam

Form of instruction:
Seminar

SWS:
4

Frequency:

Workload Präsenzzeit:
56 h
wir924 - Ecological Economics

Module label: Ecological Economics
Modulkürzel: wir924
Credit points: 6.0 KP
Workload: 180 h

Verwendbarkeit des Moduls:
- 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

Zuständige Personen:
- Sievers-Glotzbach, Stefanie (module responsibility)
- Siebenhüner, Bernd (module responsibility)
- Lehrenden, Die im Modul (Prüfungsberechtigt)
- 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.

- 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.

- 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).

Literatureempfehlungen:

Links:
- Language of instruction: English
- Duration (semesters): 1 Semester
- Module frequency: Yearly in the summer term
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### Examination Prüfungszeiten Type of examination

**Final exam of module**

1 Hausarbeit oder
1 Referat oder
1 Klausur oder
1 mündliche Prüfung oder
1 Portfolio oder
1 Projektbericht

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Praesenzzeit Modul insgesamt 56 h
## Area of specialisation

**wcm230 - Dilemmas in Infrastructure Planning**

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### Prerequisites

**Skills to be acquired in this module**

- After following this course the students are able to:
  1. Describe general debates on network and governance theory;
  2. Convert these debates into two perspectives – a network perspective and a governance perspective – which can be used to gain insight into developments in infrastructure planning practice;
  3. Apply these perspectives on the fields of waterway, energy and road infrastructure planning in order to gain insight into planning problems, dilemmas and potential solutions;
  4. Critically reflect on these problems and dilemmas in planning practice and to develop smart institutional designs to deal with these problems and dilemmas;
  5. Communicate and persuasively present relevant institutional designs to an audience that includes both peers as well as planning professionals.

### Module contents

**Originalfassung**

This course focuses on network and governance dilemmas that arise in the planning and realization of different kinds of infrastructure networks. In three thematic blocks three waterway, energy and road infrastructure networks will be covered. In total, the course consists of four thematic blocks, as the first block focuses on the general debates on network and governance theory and translates these debates into two main perspectives – a network perspective and a governance perspective. Each of the three thematic blocks will be discussed on the basis of both perspectives. The end of each block is marked by a formative exam. At the end of the thematic blocks there are also mandatory excursions with assignments. Costs may have to be made for these excursions.

**Literaturempfehlungen**

**Links**

**Languages of instruction**

**Duration (semesters)**

1 Semester

**Module frequency**

unlimited

**Module capacity**

unlimited

**Reference text**

This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen.

See [https://www.rug.nl/ocasys/frw/vak/show?code=GEMDILEIP](https://www.rug.nl/ocasys/frw/vak/show?code=GEMDILEIP) for more information about this course.

**Modullevel / module level**

**Modulart / typ of module**

**Lehr-/Lernform / Teaching/Learning method**

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Form of instruction**

Seminar

**SWS**

**Frequency**

**Workload Präsenzzeit**

0 h
wcm240 - Planning Methods and Evaluation

Module label | Planning Methods and Evaluation
Modulkürzel | wcm240
Credit points | 5.0 KP
Workload | 150 h

Verwendbarkeit des Moduls
- Master's Programme Water and Coastal Management (Master) > Area of specialisation

Zuständige Personen

Prerequisites

Skills to be acquired in this module

Planning Methods for Smart Governance

After successfully completing the course unit, students are able to:

1. Explain different theoretical perspectives on the role of planning methods.
2. Apply a selection of planning methods in a specific case and translate the method’s outcomes in a spatial policy advice.
3. Reflect on the value, use and performance of planning methods in smart policy design.
4. Clearly present the outcomes of the planning methods as well as the knowledge and motives behind these methods to specialist and non-specialist audiences.

Module contents

Planning Methods for Smart Governance

Complexity and uncertainties are intrinsically part of spatial design problems. By applying planning support and evaluation methods, planners try to deal with these uncertainties and, often, reduce complexity. Worldwide, a wide-ranging assortment of planning methods is applied in policy-design practice. Some generic functions of these methods include complex problem structuring (‘problems first’), generating and defining scenarios, analysing and visualizing impacts, and selecting and comparing alternative solutions for these problems. The format of the methods and the way their performance is perceived strongly depends on underlying theoretical views on policy design. (e.g., goal-oriented, interactive, institutional). This course provides students with knowledge about the smart use of planning methods in governance from different theoretical perspectives. The meaning of ‘smart’ relates to (1) high performance of methods in governance, (2) the use of innovative methods and (3) increase in available open data and crowdsourced data. More in detail, the conditions for successful application of methods based on problem structuring, scenario development and GIS-based Multi Criteria Analysis will be discussed. Students reflect on the value, use and performance of these methods in policy design. Part of the course is a group assignment on a self-chosen spatial design question. The aim of this assignment is to write a spatial policy advice. This will be based on the findings produced by using and integrating several planning methods related to problem solving, scenario development and GIS-based MCA. The students will complete a portfolio that – stepwise – builds up to the final policy advice. Critical reflection on the contribution of planning methods in smart governance will be part of the assignment. Project and Programme Management

This course focuses on the different management strategies that are used in planning practice. We use a framework which distinguishes both between output and outcome-oriented management strategies as well as between internal and external orientation. Output can be seen as specific products that are produced: for example, the number of highway miles built and repaired. Outcomes are the difference made by the output: better traffic flow, shorter travel times, and fewer accidents. An internal orientation is reflected in management strategies that are defensive towards their context, while this is the other way around with an external orientation. On the basis of this framework we discuss four management strategies: project, process, multi-project and programme management. Each of the management strategies is not only discussed in theory, but also planning practitioners are invited to reflect on how these strategies work in practice. An assignment is also part of the course. In the assignment, students are required to read a business novel – which might need to be purchased – and reflect in groups on the management strategies that can be found in these books. In this way, students are both...
trained to understand the theoretical principals of the different approaches, as well as gain an understanding how these strategies work in practice and what are important elements to take into account.

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| Form of Instruction | Seminar |

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**wcm250 - Transitions in Water Management**

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**Zuständige Personen**

**Prerequisites**

**Skills to be acquired in this module**

The aim of this course is to provide students with theories and concepts to describe and explain current transitions in water management, which are aimed at a more integrated and adaptive management of water issues. The course focuses in particular on the flood risk management of open water bodies or surface water in delta areas where rivers and coastal areas come together – on creating flood resilient delta areas.

After completion of the course, students must be able to (6A):

1. Describe the characteristics and challenges of surface water systems, with a particular focus on delta areas where rivers and coastal zones come together. (1E) (4B)

2. Describe and explain various concepts of transition, transition management, adaptive capacity and resilience. (1B) (1C) (1G) (3E)

3. Drawing on these theoretical explorations, identify and analyse current transitions in water management in delta areas, which are aimed at a more integrated and adaptive management of water issues. (1G) (2C) (2F) (6A) (5E)

4. Comment on issues and dilemmas in current practices of water transition management. (1G) (2H) (2J) (3C)

5. Suggest and develop possible water management strategies and measures to manage water transitions. (1A) (2A)

After completing the assignment, students are able to:

- Provide an overview of and explain current problems and dilemmas regarding a specific water management transition (3G)

- Use insights from transition theory to conceptualize and provide a historical overview of the transition under study and explain why it is useful to frame issues as a transition (1G) (5E)

- Develop an innovative strategic policy plan which is aimed to solve the current problems and dilemmas, and which builds on insights from transition management theory (2K) (4A) (4B) (5D)

**Module contents**

Due to urbanisation and the potential impacts of climate change, flood risks in delta areas are increasing, and, as a consequence, water management is high on the international political and societal agenda. Worldwide, the need is recognized to develop strategies and measures to adapt land use to the already occurring effects of climate change, and to develop integrated and adaptive approaches for dealing with water issues in low-lying urban deltas. The development and implementation of these integrated and adaptive approaches is however not an easy task, as they often involve a substantive and/or governance transition in water management. Drawing on a theoretical exploration of the nature of transitions (including the notions of resilience and adaptive capacity) and the way in which transitions can be managed, the course focuses on identifying current transitions in water management in relation to climate change, and on discussing issues and dilemmas in the attempts to manage these water transitions in establishing resilient delta areas. Through assignments, students will develop the capacity to suggest practical strategies and possibilities for water transition management for specific planning situations.

**Literatureempfehlungen**
This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen.

See [https://www.rug.nl/ocasys/frw/vak/show?code=GEMTRWATM](https://www.rug.nl/ocasys/frw/vak/show?code=GEMTRWATM) for more information about this course.

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## wcm260 - Comparative Research and Planning Practice

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### Verwendbarkeit des Moduls
- Master's Programme Water and Coastal Management (Master) > Area of specialisation

### Zuständige Personen

### Prerequisites

### Skills to be acquired in this module

The aim of this course is to compare planning systems, practices and cultures in different countries (with a focus on Europe and Asia) and to draw lessons from such comparisons. A supplementary aim of the course is to provide students with the methodological tools (e.g. lesson drawing; policy transfer) to do international comparative research. Comparative analysis allows students to determine the possibilities of transferring planning (best) practices from one specific national/planning context to another, to critique different systems as well as to draw other generic lessons from the comparisons.

After completion of the course students will be able to (6A) (6B):
1. Compare the historic, cultural and political contexts that shape different planning systems (2I) (5C)
2. Describe how specific planning tools and techniques operate within a particular context (3A) (3C) (3D)
3. Apply concepts, tools and techniques from ‘lesson drawing’, ‘policy transfer’ and ‘comparative research’ (1B) (2K) (2L) (5C) (6C)
4. Evaluate the opportunities and challenges for cross cultural learning with regard to particular themes/tools/techniques (1B) (3D) (3F)
5. Collaborate in a systematic way in planning and presenting results of a comparative research project and evaluate comparative analysis produced by peers on their completeness, accuracy and relevance and critically reflect on own research process and outcomes (3E) (6C) (D).

Assignment: After completing this assignment, the student is able to (2D) (2E) (2F) (2G) (2I) (2L) (4A) (4C) (4D) (5A) (5B) (6B):

- Develop a sound problem definition that expresses the relevance and urgency of analyzing a specific spatial planning problem in an international context (1A) (2A) (3G) (4B)
- Assess to what extent a comparison of planning system, policies and practices between two countries is feasible and reliable (1D) (2B) (3A) (5C)
- Compare the historic, cultural and political contexts that shape different planning systems (1F) (5C)
- Describe how specific planning tools and techniques operate within a particular context (1F)
- Identify opportunities and barriers for successful policy transfer (2K) (5D) and
- Collaborate in a systematic way in planning and presenting results of a comparative research project and evaluate comparative analyses produced by peers on their completeness, accuracy and relevance and critically reflect on own research process and outcomes (3E) (6C) (6D)

### Module contents

The aim of this course is to compare planning systems, practices and cultures in different countries (focusing predominantly on Europe) and to draw lessons from such comparisons. A supplementary aim of the course is to provide students with the methodological tools (e.g. qualitative comparative analysis, case study approach, lesson drawing, policy transfer) to do international comparative research. Comparative analysis allows students to better understand planning systems and practices in their country of origin, to determine possibilities for drawing lessons from planning systems and practices in other (national) planning contexts, to critique different systems as well as to draw other generic lessons from across the borders. Spatial planning practices—including environmental and infrastructure planning ones—remain highly diverse among different countries. Important issues can vary as a result of physical circumstances, institutional designs and national history. National cultures can be supportive or unsupportive of a planned intervention. The institutional context of spatial, environmental and infrastructure planning is closely related to national judicial traditions and constitutional make-up of the
state. As a result, strategies to influence spatial development are contingent to national circumstances. The CRPP course will provide an overview of related planning practices, systems and their institutional design. In order to set the context and to explain the history and development of a particular planning system, one individual country is at the focus of each so called ‘case’ lecture. Within the context of each country subsequently the key institutions, powers, limitations and strengths of the planning system are explored through an examination of particular tools, themes and techniques that operate within. Alongside, in the ‘methods’ lectures an introduction is given into qualitative comparative analysis, case study approach, lesson drawing and policy transfer as useful methods to analyze, understand and draw inspiration from different national planning systems and practices. In addition to completing a written exam, students are expected to demonstrate their knowledge and understanding of doing comparative research by completing a group assignment with the focus on transferring a (successful) policy/drawing lessons from one national/institutional/cultural context to another while being sensitive and critical towards national/institutional/cultural differences, opportunities and limitations.

Literatureempfehlungen

Journal articles will be supplied.

Links

Languages of instruction

Duration (semesters) 1 Semester

Module frequency

Module capacity unlimited

Reference text

This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen.

See https://www.rug.nl/ocasys/frw/vak/show?code=GEMCOMPRPP for more information about this course.

Modullevel / module level

Modulart / typ of module

Lehr-/Lernform / Teaching/Learning method

Vorkenntnisse / Previous knowledge

Examination

Prüfungszeiten

Type of examination

Final exam of module

Examination with open questions, Group assignments (and pitch & video/presentation)

Form of instruction Seminar

SWS

Frequency

Workload Präsenzzeit 0 h
wcm280 - Reinventing Environmental Planning

Module label: Reinventing Environmental Planning
Modulkürzel: wcm280

Credit points: 5.0 KP
Workload: 150 h

Verwendbarkeit des Moduls:
- Master's Programme Water and Coastal Management (Master) > Area of specialisation

Zuständige Personen:

Prerequisites:

1. Describe and explain the main changes occurring in environmental planning over the past decades (1a, 1e, 1g, 2f)
2. Describe and explain the main challenges our governments and societies are currently confronted with in relation to the urban development, nature and biodiversity, climate change, air pollution and energy (1a, 1g, 3a, 3f)
3. Present and discuss the main arguments in support of recent changes in environmental planning, while drawing from theoretical concepts and debates in planning and policy sciences on governance renewal (1b, 1g, 4c, 6a)
4. Present and discuss the doubts and risks associated with renewing environmental policy based on a 'post-contingency' perspective (1e, 2a, 2b, 2c, 2f, 3a, 3g, 4c, 6a)
5. Discuss and evaluate the possible planning and governance strategies that can be applied to respond to these main challenges, while understanding of the arguments in favor and against these responses (1d, 2a, 2b, 2h, 3d, 3f, 3g, 6a, 6d)
6. Make well-argued choices for possible planning and governance strategies when faced with practical environmental issues, while showing sensitivity to how these strategies relate to the characteristics of the issues and circumstances (1c, 1d, 1f, 2a, 2b, 2h, 3d, 3f, 3g, 5a, 6a, 6d)

Module contents:
The course discusses recent changes in the field of environmental planning related to the emergence of sustainable development as a prime governance guideline. The course explains how sustainable development challenges the reliance on reactive and regulatory based policies that have long been common in environmental planning in many countries. Sustainable development is presented as a call for more proactive policies that integrate environmental concerns in overall governance activities. These calls for governance renewal are connected to wider shifts in both planning theory and practice, away from command and control policies towards a richer variety of policy approaches, inspired by for example market processes, public and private partnerships, communicative rationality and multi-level governance.

While discussing recent changes in environmental planning, students are invited and stimulated to develop a critical and constructive attitude, while drawing on a 'post-contingency' perspective for identifying various theoretical arguments and doubts regarding these changes. Students will subsequently be shown examples of changes in environmental planning, related to five dominant environmental issues: urban development, nature and biodiversity, climate change, air pollution and energy. Students will be invited during a written exam to critically discuss and reflect on recent changes in environmental planning. Finally, through assignments, students need to show their ability to make theoretically supported and well-argued choices between different planning strategies and measures when faced with different issues and circumstances.

Literaturempfehlungen:

Links:

Languages of instruction:

Duration (semesters): 1 Semester

Module frequency:

unlimited

Reference text:

This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen.

See https://www.rug.nl/ocasys/frw/vak/show?code=GEMREENVPL for more information about this course.

Modullevel / module level:

Modulart / typ of module:

Lehr-/Lernform / Teaching/Learning method:
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<tr>
<th>SWS</th>
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<tr>
<td>Frequency</td>
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<td>Workload Präsenzzelt</td>
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wcm360 - Fieldwork Water Quality

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<th>Module label</th>
<th>Fieldwork Water Quality</th>
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<tr>
<td>Modulkürzel</td>
<td>wcm360</td>
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<tr>
<td>Credit points</td>
<td>5.0 KP</td>
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<td>Workload</td>
<td>150 h</td>
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Verwendbarkeit des Moduls
- Master's Programme Water and Coastal Management (Master) > Area of specialisation

Zuständige Personen

Prerequisites

Skills to be acquired in this module
The students will be able to understand different topics related to the management of water quality and the relationships between spatial planning and water quality (1E) (3C) (3D) (4B). Example topics addressed in the course include: agriculture, pollution and water management; salinization; nature development and ecology; drinking water and water purification. Further aim of the fieldwork is to practice different presentation techniques by giving an 'on-site' presentation and preparing a critical statement for discussion in groups on a water quality related topic provided by the lecturers (2H) (3E) (4A) (4C) (6A) (6C).

The students are expected to also actively collect primary data during fieldwork by asking questions from invited experts, documenting the discussions and integrating the collected material in a meaningful, coherent and critical manner to their final report (1D) (2B) (2D) (2E) (2H) (4D) (5A) (5B) (6A) (6B) (6C). Learning to work as a group in planning, conducting and presenting research is an essential part of the field-work (1D) (4A) (5A) (5B) (6C). A final goal of the fieldwork is to introduce to the students different water-related professions available for them in the water management field (4B).

Module contents
The course starts in Groningen with three introductory lectures about the relationship between water quality and spatial planning and an introduction to the context of the Netherlands. The students will be introduced to a number of central concepts pertaining to planning for water quality. In addition, a tutorial about the field-work assignment 2 and planning will be held. Further introduction into the 'cases' and the data collection 'in the field' will take place in four regions in the Netherlands. Each group will provide an on-site presentation at one of the case study areas. The final deliverable is a written report by each group.

Literaturempfehlungen

Links

Languages of instruction

Duration (semesters) | 1 Semester

Module frequency

Module capacity | unlimited

Reference text
Elective course for the students of Double Degree Master Water and Coastal Management. Not open for other students. Max. 15 students.

This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen.

See https://www.rug.nl/ocasys/frw/vak/show?code=GEMFLDWWQ for more information about this course.

Modullevel / module level

Modulart / typ of module

Lehr-/Lernform / Teaching/Learning method

Vorkenntnisse / Previous knowledge

Examination | Prüfungszzeit | Type of examination
--- | --- | ---
Final exam of module | | Active participation, Group assignments, Oral presentation

Form of instruction | Seminar

SWS

Frequency

Workload Präsenzzeit | 0 h