# Bereich Allgemeine Grundlagen

**wcm110 - Case Study**

<table>
<thead>
<tr>
<th>Modulbezeichnung</th>
<th>Case Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulcode</td>
<td>wcm110</td>
</tr>
<tr>
<td>Kreditpunkte</td>
<td>12.0 KP</td>
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<tr>
<td>Workload</td>
<td>360 h</td>
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</tbody>
</table>

**Verwendet in Studiengängen**
- Master Water and Coastal Management > Bereich Allgemeine Grundlagen

**Ansprechpartner/-in**
- Modulverantwortung
  - Bernd Siebenhüner
  - Ingo Mose
- Prüfungsberechtigt
  - Ingo Mose

**Kompetenzziele**
The students shall carry out a Case Study independently, dealing with scientific questions regarding Coastal Zone Management.

**Modulinhalte**
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).

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

**Unterrichtssprache**
Englisch

**Dauer in Semestern**
1 Semester

**Angebotsrhythmus Modul**
halbjährlich

**Hinweise**
Literature and information from public media, interviews with stakeholders etc.

**Modullevel**
Abschlussmodul (Abschlussmodul)

**Modulart**
Pflicht

**Lern-/Lehrform / Type of program**
Seminar

**Prüfung**

<table>
<thead>
<tr>
<th>Prüfungszeiten</th>
<th>Prüfungsform</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**Gesamtmodul**

**Lehrveranstaltungsform**
Seminar

**SWS**

<table>
<thead>
<tr>
<th>Angebotsrhythmus</th>
<th>Workload Präsenzzeit</th>
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</thead>
<tbody>
<tr>
<td></td>
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</table>
Masterarbeitsphase
wcm290 - Planning Theory

<table>
<thead>
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<th>Planning Theory</th>
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<tr>
<td>Modulcode</td>
<td>wcm290</td>
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<tr>
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<tr>
<td>Workload</td>
<td>150 h</td>
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<tr>
<td>Verwendet in Stu...</td>
<td>Master Water and Coastal Management &gt; Masterarbeitsphase</td>
</tr>
</tbody>
</table>

Ansprechpartner/-in

Teilnahmevoraussetzungen

Kompetenzziele
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.

Modulinhalte
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.

Literaturempfehlungen

Links

Unterrichtsprachen

Dauer in Semestern
1 Semester

Angebotsrhythmus Modul
unbegrenzt

Hinweise
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=GEMPLANTH for more information about this course.

Modullevel
MM (Mastermodul / Master module)

Modulart
je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
Lectures
(8-10 lectures of 2 hrs each)

Vorkenntnisse / Previous knowledge

Prüfung
Prüfungsform
Gesamtmodul
Examination with multiple choice questions,
Examination with open questions

Lehrveranstaltungsform
Seminar

SWS

Angebotsrhythmus

Workload Präsenzzeit
0 h
wcm300 - Environmental and Infrastructure Planning (EIP) Interactive Workshop

<table>
<thead>
<tr>
<th>Modulbezeichnung</th>
<th>Environmental and Infrastructure Planning (EIP) Interactive Workshop</th>
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<tbody>
<tr>
<td>Modulcode</td>
<td>wcm300</td>
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<tr>
<td>Kreditpunkte</td>
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<tr>
<td>Workload</td>
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<tr>
<td>Verwendet in Studiengängen</td>
<td>• Master Water and Coastal Management &gt; Masterarbeitsphase</td>
</tr>
<tr>
<td>Ansprechpartner/-in</td>
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</tbody>
</table>

**Kompetenzziele**
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.

**Modulinhalte**
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**

**Unterrichtsprachen**

**Dauer in Semestern**
1 Semester

**Angebotsrhythmus Modul**
unbegrenzt

**Hinweise**
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 for more information about this course.

**Modullevel**
MM (Mastermodul / Master module)

**Modulart**
je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Prüfung / Exam**

<table>
<thead>
<tr>
<th>Gesamtestudiengangsform</th>
<th>Assignments, Presentation (Pre-class assignments, participation in-class, presentation, final assignment)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lehrveranstaltungsform</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

**SWS**

**Angebotsrhythmus**

**Workload Präsenzzeit**
0 h
Bereich Planning

wcm140 - Planning and Management of Coastal Zones and Sea Basins

<table>
<thead>
<tr>
<th>Modulbezeichnung</th>
<th>Planning and Management of Coastal Zones and Sea Basins</th>
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<tbody>
<tr>
<td>Modulcode</td>
<td>wcm140</td>
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<tr>
<td>Kreditpunkte</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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</tbody>
</table>

Verwendet in Studiengängen
- Master Sustainability Economics and Management > Ergänzungsmodule
- Master Water and Coastal Management > Bereich Planning

Ansprechpartner/-in
Modulverantwortung
- Bernd Siebenhüner
- Ingo Mose

Prüfungsberechtigt
- Ingo Mose
- Leena Karrasch

Modulberatung
- Leena Karrasch

Teilnahmevoraussetzungen
None

Kompetenzziele
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.

Modulinhalte
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.

Literaturempfehlungen

Links

Unterrichtssprache
Englisch

Dauer in Semestern
2 Semester

Angebotsrhythmus Modul
halbjährlich

Aufnahmekapazität Modul
unbegrenzt

Hinweise
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
Abschlussmodul (Abschlussmodul)

Modulart
Pflicht

Lern-/Lehrform / Type of program
Seminar, field-trip

Vorkenntnisse / Previous knowledge

Prüfung

Prüfungszeiten

Prüfungsform

Gesamtmodul

Lehrveranstaltungsform
Seminar

SWS

Angebotsrhythmus

Workload Präsenzzeit
0 h
**wcm150 - Selected Topics in River and Coastal Development**

<table>
<thead>
<tr>
<th><strong>Modulbezeichnung</strong></th>
<th>Selected Topics in River and Coastal Development</th>
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<tbody>
<tr>
<td><strong>Modulcode</strong></td>
<td>wcm150</td>
</tr>
<tr>
<td><strong>Kreditpunkte</strong></td>
<td>6.0 KP</td>
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<tr>
<td><strong>Workload</strong></td>
<td>180 h</td>
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<tr>
<td><strong>Verwendet in Studiengängen</strong></td>
<td>Master Water and Coastal Management &gt; Bereich Planning</td>
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<tr>
<td><strong>Ansprechpartner/-in</strong></td>
<td>Modulverantwortung</td>
</tr>
<tr>
<td></td>
<td>• Bernd Siebenhüner</td>
</tr>
<tr>
<td></td>
<td>• Ingo Mose</td>
</tr>
<tr>
<td><strong>Teilnahmevermögensvoraussetzungen</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Kompetenzziele</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Modulinhalte</strong></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Literaturempfehlungen</strong></td>
<td>A list of relevant literature will be provided at the beginning of the course.</td>
</tr>
<tr>
<td><strong>Unterrichtssprache</strong></td>
<td>Englisch</td>
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<tr>
<td><strong>Dauer in Semestern</strong></td>
<td>2 Semester</td>
</tr>
<tr>
<td><strong>Angebotsrhythmus Modul</strong></td>
<td>halbjährlich</td>
</tr>
<tr>
<td><strong>Aufnahmekapazität Modul</strong></td>
<td>unbegrenzt</td>
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<tr>
<td><strong>Hinweise</strong></td>
<td>Visit of sites representative for good practice in River and Water Management; interaction and discussion with local researchers and practitioners</td>
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<tr>
<td><strong>Modullevel</strong></td>
<td>MM (Mastermodul / Master module)</td>
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<td><strong>Modulart</strong></td>
<td>Wahlpflicht / Elective</td>
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<tr>
<td><strong>Lern-/Lehrform / Type of program</strong></td>
<td>Seminar and field trips</td>
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<tr>
<td><strong>Vorkenntnisse / Previous knowledge</strong></td>
<td></td>
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<tr>
<td><strong>Prüfung</strong></td>
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<tr>
<td><strong>Prüfungszeiten</strong></td>
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<td><strong>Prüfungsform</strong></td>
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<td><strong>Gesamtmodul</strong></td>
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<tr>
<td><strong>Lehrveranstaltungsform</strong></td>
<td>Seminar</td>
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<tr>
<td><strong>SWS</strong></td>
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<tr>
<td><strong>Angebotsrhythmus</strong></td>
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</tr>
<tr>
<td><strong>Workload Präsenzzeit</strong></td>
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</table>
### wcm310 - GIS for WCM

<table>
<thead>
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<th>Modulbezeichnung</th>
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<tbody>
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<tr>
<td>Workload</td>
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<tr>
<td>Verwendet in Studiengängen</td>
<td>Master Water and Coastal Management &gt; Bereich Planning</td>
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**Ansprechpartner/-in**
**Teilnahmevoraussetzungen**
**Kompetenzziele**
**Modulinhalte**
**Literaturempfehlungen**

**Links**

**Unterrichtsprachen**

| Dauer in Semestern | 1 Semester |

**Angebotsrhythmus Modul**

| Aufnahmekapazität Modul | unbegrenzt |

**Modullevel**

| BC (Basiscurriculum) |

**Modulart**

| je nach Studiengang Pflicht oder Wahlpflicht |

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Prüfung**

| Gesamtmodul | PF |

**Lehrveranstaltungsform**

| Seminar |

**SWS**

| Angebotsrhythmus | |

| Workload Präsenzzeit | 0 h |
Iök320 - Nachhaltige Raumentwicklung in Europa / Sustainable Spatial Development in Europe

Modulbezeichnung
Nachhaltige Raumentwicklung in Europa / Sustainable Spatial Development in Europe

Modulcode
lök320

Kreditpunkte
6.0 KP

Workload
180 h

Verwendet in Studiengängen
- Master Landschaftsökologie > Vertiefungsmodule drittes Fachsemester
- Master Sustainability Economics and Management > Ergänzungsmodul
- Master Water and Coastal Management > Bereich Planning

Ansprechpartner/-in

Modulverantwortung
- Ingo Mose

Prüfungsberechtigt
- Ingo Mose
- Thomas Klenke
- Markus Prinz
- Peter Schaal

Modulberatung
- Ingo Mose

Teilnahmevoraussetzungen
Gute Englischkenntnisse

Kompetenzziele

Modulinhalte
SE/EX Space and society (3 KP)
V Aktuelle Themen zu Landwirtschaft und Agrarpolitik (1,5 KP) SE/EX Sustainable tourism (3 KP)
V Kolloquium zur nachhaltigen Raumentwicklung (1,5 KP)

Space and society
Thematisierung ausgewählter Konzeptualisierungen von Raum und Landschaft, unterschiedlicher Raumnutzungsansprüche verschiedener gesellschaftlicher Akteure sowie daraus erwachsender Steuerungsanforderungen im Sinne einer nachhaltigen Raumentwicklung.

Aktuelle Themen zu Landwirtschaft und Agrarpolitik
Überblick zu aktuellen Fragen und Problemstellungen in der Landwirtschaft sowie zur Agrarpolitik und deren strategisch-instrumenteller Umsetzung anhand ausgewählter Beispiele.

Sustainable tourism
Vorstellung verschiedener Konzepte und Strategien eines nachhaltigen Tourismus sowie dessen praktischer Umsetzung aus Angebots- und Nachfrageperspektive. Illustration anhand ausgewählter Beispiele aus dem europäischen Kontext.

Renewable energy planning
Überblick zur den verschiedenen Formen erneuerbarer Energien und den mit ihnen verbundenen Anforderungen an die räumliche Entwicklung in einer vorrangig planungs- und akteursorientierten Perspektive. Illustration anhand ausgewählter Beispiele aus dem europäischen Kontext.

Kolloquium zur nachhaltigen Raumentwicklung
Überblick zu aktuellen Theorieansätzen, Konzepten, Instrumenten sowie praktischen Handlungsfeldern einer nachhaltigen Raumentwicklung im nationalen und europäischen Kontext.

Als integrierter Bestandteil der Seminarveranstaltungen des Moduls werden bis zu drei Tagesexkursionen mit wechselndem thematischem Schwerpunkt in Nordwestdeutschland angeboten.

Literaturempfehlungen
Weitere Literatur wird in den einzelnen Veranstaltungen bekanntgegeben.

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

Unterrichtsprachen
Deutsch, Englisch
<table>
<thead>
<tr>
<th>Dauer in Semestern</th>
<th>1 Semester</th>
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<tbody>
<tr>
<td>Angebotsrhythmus Modul</td>
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<tr>
<td>Aufnahmekapazität Modul</td>
<td>unbegrenzt</td>
</tr>
<tr>
<td>Modullevel</td>
<td>---</td>
</tr>
<tr>
<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
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### Lern-/Lehrform / Type of program

### Vorkenntnisse / Previous knowledge

<table>
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<th>Prüfungszeiten</th>
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<tr>
<td>Gesamtmodul</td>
<td>nach Absprache</td>
<td>6 KP – Referat oder Hausarbeit</td>
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<table>
<thead>
<tr>
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<th>Kommentar</th>
<th>SWS</th>
<th>Angebotsrhythmus</th>
<th>Workload Präsenzzeit</th>
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<tbody>
<tr>
<td>Vorlesung</td>
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<tr>
<td>Seminar</td>
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<td>84 h</td>
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<td>Exkursion</td>
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### Präsenzzeit Modul insgesamt

| 140 h |
### Modulbezeichnung
Marine & Maritime Law

### Modulcode
wir880

### Kreditpunkte
6.0 KP

### Workload
180 h

### Verwendet in Studiengängen
- Master Sustainability Economics and Management > Ergänzungsmodule
- Master Water and Coastal Management > Bereich Planning
- Master Wirtschafts- und Rechtswissenschaften > Schwerpunkt "China - Wirtschaft und Sprache" (CHI) - Kernmodule
- Master Wirtschafts- und Rechtswissenschaften > Schwerpunkt "Transnational Economics and Law" (TEL)

### Ansprechpartner/-in
Modulverantwortung
Christine Godt
Prüfungsberechtigt
- Die im Modul Lehrenden

### Teilnahmeveranstaltungen

### Kompetenzziele
Die Studierenden
- erwerben Kenntnisse des maritimen (zivilistischen) und des marinen (öffentlichen) 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.

### Modulinhalte

### Literaturempfehlungen

### Links
- Unterrichtssprache: Englisch
- Dauer in Semestern: 1 Semester
- Angebotsrhythmus Modul: jährlich
- Aufnahmekapazität Modul: unbegrenzt
- Modullevel: SPM (Schwerpunktmodul / Main emphasis)
- Modulart: Wahlpflicht / Elective
- Lern-/Lehrform / Type of program: S

### Vorkenntnisse / Previous knowledge

### Prüfungsformen
- Prüfungszeiten: Während der Vorlesungszeit
- Prüfungsform: Referat oder Hausarbeit oder mündliche Prüfung

### Gesamtmodul
- Lehrveranstaltungsform: Seminar
- (2 SE)
<table>
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<tr>
<td>Angebotsrhythmus</td>
<td>SoSe und WiSe</td>
</tr>
<tr>
<td>Workload Präsenzzeit</td>
<td>56 h</td>
</tr>
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</table>
Bereich Science

wcm170 - Understanding Bioplanet Earth

<table>
<thead>
<tr>
<th>Modulbezeichnung</th>
<th>Understanding Bioplanet Earth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulcode</td>
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<tr>
<td>Kreditpunkte</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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Verwendet in Studiengängen

- Master Water and Coastal Management > Bereich Science

Ansprechpartner/-in

Teilnahmevoraussetzungen

Kompetenzziele

The introduction to processes and systems of the dynamic Earth constituting the foundation for sustainable management is given to students to provide them with:

- 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 and serious gaming approaches will be used to endorse the intended achievements.

Modulinhalte

The module ´Bioplanet Earth´ covers two parts. One part is a series of lectures on approaches of science disciplines to the structure and physiology of the Earth. The other part is a seminar designed for having a dialogue based on student’s presentations on actual problems in using resources and protecting ecosystems and climate in a sustainable way.

Lecture: Understanding Bioplanet Earth (2 contact hours/week)
- Lecture: Solar systems and formation of the Earth, Earth’s interior, Earth’s dynamics: rock, water and element cycles, evolution of life on Earth, organisms and biodiversity, climate system, marine and terrestrial systems, fossil and renewable resources plus various insights into ecosystems under different climate conditions and human intervention.

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 sub-systems 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.

Literatureempfehlungen

Links

Unterrichtsprachen

Dauer in Semestern
1 Semester

Angebotsrhythmus Modul halbjährlich

Aufnahmekapazität Modul unbegrenzt

Modullevel ---

Modulart je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Prüfung Prüfungszeiten Prüfungsform
Gesamtmodul HA

Lehrveranstaltungsform Seminar

SWS

Angebotsrhythmus

Workload Präsenzzeit 0 h
wcm190 - Selected Topics in Environmental Sciences and Management

Modulbezeichnung | Selected Topics in Environmental Sciences and Management
---|---
Modulcode | wcm190
Kreditpunkte | 6.0 KP
Workload | 180 h

Verwendet in Studiengängen
- Master Water and Coastal Management > Bereich Science

Ansprechpartner/-in

Modulverantwortung
- Bernd Siebenhüner
- Thomas Klenke

Prüfungsberechtigt
- Holger Freund
- Thomas Klenke
- Joachim Peinke
- Luise Dorothee Giani
- Rainer Buchwald
- Gudrun Massmann

Modulberatung
- Holger Freund
- Joachim Peinke
- Luise Dorothee Giani
- Rainer Buchwald
- Gudrun Massmann

Teilnahmevoraussetzungen
None

Kompetenzziele
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.

Modulinhalte
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.

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

Unterrichtssprache | Englisch
---|---
Dauer in Semestern | 1 Semester

Angebotsrhythmus Modul | halbjährlich
Aufnahmekapazität Modul | unbegrenzt

Hinweise
Lecture room presentations and discussions based on slides and black/white board usage. Short films will be presented. Practical work.

Modullevel | Abschlussmodul (Abschlussmodul)
Modulart | je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
Lecture and seminar
Varying lecture (2 contact hours/week) and connected seminar or practical course (2 contact hours/week)

Vorkenntnisse / Previous knowledge

Prüfung | Prüfungszeiten | Prüfungsform
---|---|---

Gesamtmodul

Lehrveranstaltungsform | Seminar
---|---

SWS

Angebotsrhythmus

Workload Präsenzzeit | 0 h
### wcm350 - Bioenergy

<table>
<thead>
<tr>
<th>Modulbezeichnung</th>
<th>Bioenergy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulcode</td>
<td>wcm350</td>
</tr>
<tr>
<td>Kreditpunkte</td>
<td>6.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>180 h</td>
</tr>
<tr>
<td>Verwendet in Studiengängen</td>
<td>- Master Water and Coastal Management &gt; Bereich Science</td>
</tr>
</tbody>
</table>

**Ansprechpartner/-in**

**Teilnahmeverhaltenszüge**

- 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.

**Modulinhalte**

- 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**

**Unterrichtssprache**

- Englisch

**Dauer in Semestern**

- 1 Semester

**Angebotsrhythmus Modul**

- halbjährlich

**Aufnahmekapazität Modul**

- unbegrenzt

**Modullevel**

- ---

**Modular**

- je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

<table>
<thead>
<tr>
<th>Prüfung</th>
<th>Prüfungszeiten</th>
<th>Prüfungsform</th>
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<tbody>
<tr>
<td>Gesamtmodul</td>
<td></td>
<td>Präsentation oder Portfolio</td>
</tr>
<tr>
<td>Lehrveranstaltungsform</td>
<td>Vorlesung</td>
<td></td>
</tr>
</tbody>
</table>

**SWS**

- 2.00

**Angebotsrhythmus**

**Workload Präsenzzeit**

- 28 h
### Modulbezeichnung
Naturschutz in der Praxis / Practice of Nature Conservation

### Modulcode
lök210

### Kreditpunkte
6.0 KP

### Workload
180 h

### Verwendet in Studiengängen
- Master Landschaftsökologie > Vertiefungsmodule zweites Fachsemester
- Master Sustainability Economics and Management > Ergänzungsmodule
- Master Water and Coastal Management > Bereich Science

### Ansprechpartner/-in
- Modulverantwortung
  - Rainer Buchwald
  - Ingo Mose
- Prüfungsberechtigt
  - Rainer Buchwald
  - Ingo Mose
  - Hans-Joachim Janßen
  - Thomas Fartmann

### Teilnahmevoraussetzungen
abschlossenes Bachelor-Studium mit ökologischer Ausrichtung

### Kompetenzziele

### Modulinhalte
a) Seminar "Gebietschutz und Regionalentwicklung" ("Protected areas and regional development"): überblickartige Darstellung der wichtigsten Typen von Großschutzgebieten in Europa sowie aktueller Konzepte zur Integration der Schutzzwecke mit den Aufgaben der Regionalentwicklung, insbesondere in peripheren ländlichen Räumen
b) Seminar "Praxis der ökologischen Planung": Vorstellung relevanter Instrumente der Raum- und Regionalplanung, die den besonderen Ansprüchen einer ökologischen Planung verpflichtet sind; vertiefte betrachtung anhand geeigneter Beispiele aus der Praxis - diese Veranstaltung findet im Wintersemester statt
c) Praktikum "Biotopverbund" (Habitat connectivity"): Theorie von Biotopverbund und Habitat-vernetzung, incl. Ursachen und Auswirkungen von Fragmentierung und Isolation naturnaher Lebensräume; Untersuchung von Wanderungs- und Ausbreitungsverhalten ausgewählter Libellenarten in Grabensystemen
d) Exkursion "Gebietschutz": Vorstellung eines deutschen oder europäischen Großschutzgebietes unter besonderer Berücksichtigung geografischer, floristischer, faunistischer, naturschutzfachlicher, historischer und landwirtschaftlicher sowie landschaftlicher und ökonomischer Aspekte

### Literaturempfehlungen

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

### Unterrichtsprachen
Deutsch, Englisch

### Dauer in Semestern
1 Semester

### Angebotsrhythmus Modul
jährlich

### Aufnahmekapazität Modul
unbegrenzt

### Modullevel
MM (Mastermodul / Master module)

### Modulart
Wahlpflicht / Elective

### Vorkenntnisse / Previous knowledge

---

**Literatur**

**Links**
- https://www.uni-oldenburg.de/vegetationskunde/
<table>
<thead>
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<th>Prüfung</th>
<th>Prüfungszeiten</th>
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<tr>
<td>Gesamtmodul</td>
<td>Veranstaltungsende</td>
<td>6 KP Referat (in einem Seminar) oder Exkursionsbericht oder Hausarbeit</td>
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<th>Kommentar</th>
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<th>Angebotsrhythmus</th>
<th>Workload Präsenzzeit</th>
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### mar358 - Basic ecological processes

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<tr>
<td>Kreditpunkte</td>
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<tr>
<td>Workload</td>
<td>180 h (Präsenzzeit: 56 Stunden, Selbststudium: 124 Stunden)</td>
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| Verwendet in Studiengängen | Master Marine Umweltwissenschaften > Mastermodule  
|                           | Master Water and Coastal Management > Bereich Science |
| Ansprechpartner/-in        | Modulverantwortung                         |
|                           | - Stefanie Moorthi                         |
|                           | - Maren Striebel                           |
| Teilnahmevoraussetzungen   | Keine                                      |
| Literaturempfehlungen      | Wird in den einzelnen Veranstaltungen bekanntgegeben |
| Links                      | Deutsch, Englisch                          |
| Dauer in Semestern         | 1 Semester                                 |
| Angebotsrhythmus Modul     |                                            |
| Aufnahmekapazität Modul    | 20 (Auswahl nach Anmeldeeingang/Losverfahren) |
| Modullevel                 | MM (Mastermodul / Master module)           |
| Modulart                   | Wahlpflicht / Elective                     |

#### Type of program

<table>
<thead>
<tr>
<th>Vorkenntnisse / Previous knowledge</th>
<th>Prüfung</th>
<th>Prüfungszeiten</th>
<th>Prüfungsform</th>
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#### Gesamtmodul

<table>
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<tr>
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<th>Angebotsrhythmus</th>
<th>Workload Präsenzzeit</th>
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<tr>
<td>Praktikum</td>
<td>2.00</td>
<td>WiSe</td>
<td></td>
<td>28 h</td>
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<td>Seminar</td>
<td>2.00</td>
<td>WiSe</td>
<td></td>
<td>28 h</td>
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Präsenzzeit Modul insgesamt: 56 h
wir905 - Environmental Sciences

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<tr>
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<td>Thomas Klenke</td>
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<td></td>
<td>Holger Freund</td>
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<td>Jürgen Köster</td>
</tr>
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<td>Thomas Klenke</td>
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<td>Modulberatung</td>
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<td>Holger Freund</td>
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<td></td>
<td>Jürgen Köster</td>
</tr>
<tr>
<td></td>
<td>Gast Dozent</td>
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</table>

Teilnahmevoraussetzungen

Kompetenzziele

The introduction to processes and systems of the dynamic Earth constituting the foundation for sustainable management is given to students to provide them with:

- 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 and serious gaming approaches will be used to endorse the intended achievements.

Modulinhalte

The module ‘Bioplanet Earth’ covers two parts. One part is a series of lectures on approaches of science disciplines to the structure and physiology of the Earth. The other part is a seminar designed for having a dialogue based on student’s presentations on actual problems in using resources and protecting ecosystems and climate in a sustainable way.

Lecture: Understanding Bioplanet Earth (2 contact hours/week)
- Lecture, 2 LVS: Solar systems and formation of the Earth, Earth’s interior, Earth’s dynamics: rock, water and element cycles, evolution of life on Earth, organisms and biodiversity, climate system, marine and terrestrial systems, fossil and renewable resources plus various insights into ecosystems under different climate conditions and human intervention.
- 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 sub-systems 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.

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

Unterrichtssprache: Englisch
Dauer in Semestern: 1 Semester
Angebotsrhythmus Modul: jährlich
Aufnahmekapazität Modul: unbegrenzt
Modullevel: BM (Basismodul / Base)
Modulart: Pflicht / Mandatory

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Prüfung
- Gesamtmodul: By the end of the lecture period.

Prüfungsform
- Gesamtmodul: Presentation/discussion and written report on a case; Scientific quality of presentation (40 %) Clarity of presentation and discussion (20 %) Scientific quality of report (40 %)

Lehrveranstaltungsform
- Lehrveranstaltungsform: Kommentar SWS Angebotsrhythmus Workload Präsenzzeit
<table>
<thead>
<tr>
<th>Lehrveranstaltungsform</th>
<th>Kommentar</th>
<th>SWS</th>
<th>Angebotsrhythmus</th>
<th>Workload Präsenzzeit</th>
</tr>
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<tr>
<td>Vorlesung</td>
<td></td>
<td>2.00</td>
<td></td>
<td>28 h</td>
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<tr>
<td>Seminar</td>
<td></td>
<td>2.00</td>
<td></td>
<td>28 h</td>
</tr>
<tr>
<td>Präsenzzeit Modul insgesamt</td>
<td></td>
<td></td>
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<td>56 h</td>
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Iök290 - Perspektiven der Bioenergie

Modulbezeichnung: Perspektiven der Bioenergie

Modulcode: lök290

Kreditpunkte: 6.0 KP

Workload: 180 h

Verwendet in Studiengängen:
- Master Landschaftsökologie > Vertiefungsmodule zweites Fachsemester
- Master Water and Coastal Management > Bereich Science

Ansprechpartner/-in:
- Modulverantwortung: Rainer Buchwald
- Prüfungsberechtigt: Rainer Buchwald, Luise Dorothee Giani, Megan de Jager, Thomas Klenke, Alexandra Pehlken, Michael Wark, Kai Michael Röhrdanz

Teilnahmevoraussetzungen:
- Bachelorstudium der Natur-, Umwelt- oder Wirtschaftswissenschaften

Kompetenzziele:
Das Modul soll die Studierenden befähigen, sich mit verschiedenen Formen der Bioenergie und ihren aktuellen Perspektiven auseinander zu setzen. Hierbei erlangen sie Kompetenzen sowohl in den naturwissenschaftlichen Basalfächern Physik, Chemie und Biologie als auch in Hinsicht auf die energetischen, technischen, ökologischen und ökonomischen Aspekte, die zur synoptischen Bewertung verschiedener Formen der Bioenergie berücksichtigt werden müssen.

Modulinhalte:
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/
- Unterrichtssprachen: Deutsch, Englisch

Unterrichtsprachen:
- Deutsch, Englisch

Dauer in Semestern:
- 1 Semester

Angebotsrhythmus Modul:
- jährlich

Aufnahmekapazität Modul:
- unbegrenzt

Modullevel:
- ---

Modulart:
- je nach Studiengang Pflicht oder Wahlpflicht

Lern-/-Lehrform / Type of program:

Vorkenntnisse / Previous knowledge:

Prüfung:

Veranstaltungsende: Hausarbeit (zum Seminar oder wahlweise zur Übung) und zu a) unbenotete Präsentation (30 min.)

SWS: Angebotsrhythmus: Workload Präsenzzeit

Lehrveranstaltungsform:

Veranstaltungsende: Hausarbeit (zum Seminar oder wahlweise zur Übung) und zu a) unbenotete Präsentation (30 min.)

SWS: Angebotsrhythmus: Workload Präsenzzeit

Vorlesung: 2.00 28 h

Übung: 2.00 28 h

Seminar: 2.00 28 h

Präsenzzeit Modul insgesamt: 84 h
## Bereich Socioeconomics

**wir876 - Topics in Economic Research**

<table>
<thead>
<tr>
<th>Modulbezeichnung</th>
<th>Topics in Economic Research</th>
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<tbody>
<tr>
<td>Modulcode</td>
<td>wir876</td>
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<tr>
<td>Kreditpunkte</td>
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</tr>
<tr>
<td>Workload</td>
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</table>

**Verwendet in Studiengängen**
- Master Water and Coastal Management > Bereich Socioeconomics
- Master Wirtschaftsinformatik > Module der Wirtschafts- und Rechtswissenschaften (Master)
- Master Wirtschafts- und Rechtswissenschaften > Schwerpunkt "Volkswirtschaftslehre" (VWL)

**Ansprechpartner/-in**
- Modulverantwortung
  - Jürgen Bitzer
  - Christoph Böhringer
  - Carsten Helm
  - Hans-Michael Trautwein
  - Die im Modul Lehrenden

**Teilnahmeverzerrungen**

**Kompetenzziele**

Die Studierenden haben durch dieses Modul die Möglichkeit, ein beliebiges VWL-Modul auf Master-Niveau im Umfang von 6 KP frei zu wählen. Das Modul kann auch an einer anderen Universität z. B. auch im Ausland belegt werden.

Grundsätzlich gilt auch hierbei, dass die Studierenden:

- eine Fragestellung selbstständig unter Verwendung wissenschaftlicher Methoden bearbeiten,
- selbstständig aktuelle wissenschaftliche Literatur verwenden und recherchieren,
- ihre Problemstellung in eine wissenschaftliche Diskussion integrieren.

**Modulinhalte**

Ergeben sich aus dem gewählten Modul.

**Literaturrempfehlungen**

**Links**

**Unterrichtsprachen**

1 Semester

**Dauer in Semestern**

halbjährlich

**Aufnahmekapazität Modul**

unbegrenzt

**Modullevel**

---

**Modulart**

je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Prüfung**

Eine Hausarbeit oder ein Referat oder eine Klausur oder eine mündliche Prüfung oder ein Portfolio oder ein Projektbericht.

**Gesamtmodul**

nach Absprache

**Prüfungsform**

**Vorlesung oder Seminar (oder Kolloquium)**

<table>
<thead>
<tr>
<th>Kommentar</th>
<th>SWS</th>
<th>Angebotsrhythmus</th>
<th>Workload Präsenzzeit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vorlesung oder Seminar</td>
<td>4.00</td>
<td>SoSe</td>
<td>56 h</td>
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<tr>
<td>Kolloquium</td>
<td>0.00</td>
<td>SoSe</td>
<td>0 h</td>
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<tr>
<td>Übung</td>
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<td>SoSe und WiSe</td>
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**Präsenzzeit Modul insgesamt**

56 h

**Präsenzzeit Modul insgesamt**
**wir878 - Public Economics**

**Modulbezeichnung**  
Public Economics

**Modulcode**  
wir878

**Kreditpunkte**  
6.0 KP

**Workload**  
180 h

**Verwendet in Studiengängen**
- Master Sustainability Economics and Management > Ergänzungsmodule
- Master Water and Coastal Management > Bereich Socioeconomics
- Master Wirtschafts- und Rechtswissenschaften > Schwerpunkt "Volkswirtschaftslehre" (VWL)

**Ansprechpartner/-in**
- Carsten Helm  
Prüfungsberechtigt
- Die im Modul Lehrenden  
Modulberatung
- Jasper Meya

**Teilnahmevoraussetzungen**
none

**Kompetenzziele**
The students are able
- to understand sources of market failures and government failures and to analyze their implications for the design of public policies
- understand taxing and spending activities of governments and to analyze their implications for the economy
- understand the distinction between normative and positive perspectives in the evaluation of government policy and to engage in an economic discourse about government policies
- to apply economic methods to current issues in public economics
- present their research result in the form of written papers and oral presentations

**Modulinhalte**
- 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/

**Unterrichtssprachen**
Deutsch, Englisch

**Dauer in Semestern**
1 Semester

**Angebotsrhythmus Modul**
jährlich

**Aufnahmekapazität Modul**
unbegrenzt

**Hinweise**
The seminar will be conducted as a block seminar

**Modullevel**
---

**Modulart**
je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**
Vorkenntnisse / Previous knowledge
Prüfung  
end of semester  
seminar paper and presentation
Prüfungszeiten  

<table>
<thead>
<tr>
<th>Lehrveranstaltungsform</th>
<th>Prüfungsform</th>
<th>Angaben</th>
<th>Workload Präsenzzzeit</th>
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<tbody>
<tr>
<td>Vorlesung und Seminar</td>
<td>SWS</td>
<td>WiSe</td>
<td>28 h</td>
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<tr>
<td>Seminar</td>
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<td>56 h</td>
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**Kommentar**
SWS  
WiSe  
28 h
wir902 - International Sustainability Management

Modulbezeichnung
International Sustainability Management

Modulcode
wir902

Kreditpunkte
6.0 KP

Workload
180 h

Verwendet in Studiengängen
- kein Abschluss European Studies in Global Perspectives > Society, Economy and Politics
- Master Sustainability Economics and Management > Basis- und Akzentmodule
- Master Water and Coastal Management > Bereich Socioeconomics
- Master Wirtschaftsinformatik > Bereichswahlmodule
- Master Wirtschaftsinformatik > Module der Wirtschafts- und Rechtswissenschaften (Master)

Ansprechpartner/-in

Modulverantwortung
Bernd Siebenhüner

Prüfungsberechtigt
- Die im Modul Lehrenden
- Alkje Wegner
- Stefanie Sievers-Glotzbach

Teilnahmevoraussetzungen
keine

Kompetenzziele
- 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

Modulinhalte
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.

Literaturrempfehlungen
- BMU/BDI (Eds., 2002). Sustainability Management in Business Enterprises. CSM, University of Lueneburg (Schaltegger, Herzig, Kleiber, Müller).
- Charter, Martin/Tischner, Ursula (Eds.): Sustainable Solutions, Developing Products and Services for the Future, Sheffield: Greenleaf;

Links

Unterrichtssprache
Englisch
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<th>Dauer in Semestern</th>
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| Präsenzzeit Modul insgesamt | 56 h |
wir906 - Resource and Energy Economics

**Modulbezeichnung**  Resource and Energy Economics

**Modulcode**  wir906

**Kreditpunkte**  6.0 KP

**Workload**  180 h

**Verwendet in Studiengängen**
- Master Sustainability Economics and Management > Basis- and Akzentmodule
- Master Water and Coastal Management > Bereich Socioeconomics

**Ansprechpartner/-in**
- Modulverantwortung: Christoph Böhringer
- Prüfungsberechtigt: Die im Modul Lehrenden

**Modulberatung**
- Emmanuel Asane-Otoo
- Jan Schneider

**Kompetenzziele**
- 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).

**Modulinhalte**
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**

**Unterrichtssprache**  Englisch

**Dauer in Semestern**  1 Semester

**Angebotsrhythmus Modul**  jährlich

**Aufnahmekapazität Modul**  unbegrenzt

**Modullevel**  ---

**Modulart**  je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**  Lectures

**Vorkenntnisse / Previous knowledge**

**Prüfung**  Written exam

**Prüfungszeiten**

**Prüfungsf orm**  Written exam

**Gesamtmodul**

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25 / 38
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## wir919 - Topics in Sustainability Economics and Management I

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| Verwendet in Studiengängen | Master Sustainability Economics and Management > Ergänzungsmodule  
|                   | Master Water and Coastal Management > Bereich Socioeconomics |
| Ansprechpartner/-in | Modulverantwortung  
|                   | - Bernd Siebenhüner  
|                   | Prüfungsberechtigt  
|                   | - Bernd Siebenhüner  
|                   | - Stefanie Sievers-Glotzbach |
| Teilnahmevoraussetzungen | 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 |
| Modulinhalte     | 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 |
| Unterrichtssprache | Englisch |
| Dauer in Semestern | 1 Semester |
| Angebotsrhythmus Modul | jährlich |
| Aufnahmekapazität Modul | unbegrenzt |
| Modullevel | EB (Ergänzungsbereich / Complementary) |
| Modulart | Wahlpflicht / Elective |

### Links

- Unterrichtssprache: Englisch
- Dauer in Semestern: 1 Semester
- Angebotsrhythmus Modul: jährlich
- Aufnahmekapazität Modul: unbegrenzt
- Modullevel: EB (Ergänzungsbereich / Complementary)
- Modulart: Wahlpflicht / Elective

### Lern-/Lehrform / Type of program

#### Vorkenntnisse / Previous knowledge

#### Prüfung / Examination

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Modulbezeichnung: Topics in Sustainability Economics and Management II

Modulcode: wir939

Kreditpunkte: 6.0 KP

Workload: 180 h

Verwendet in Studiengängen:
- Master Sustainability Economics and Management > Ergänzungsmodul
- Master Water and Coastal Management > Bereich Socioeconomics

Ansprechpartner/-in:
- Modulverantwortung: Bernd Siebenhüner
- Prüfungsberechtigt: Bernd Siebenhüner, Stefanie Sievers-Glotzbach

Teilnahmevoraussetzungen:
- No

Kompetenzziele:
- 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.

Modulinhalte:
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:
- Unterrichtssprache: Englisch
- Dauer in Semestern: 1 Semester
- Angebotsrhythmus Modul: jährlich
- Aufnahmekapazität Modul: unbegrenzt
- Modullevel: ---
- Modulart: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program:
- two seminars

Vorkenntnisse / Previous knowledge:

Prüfung / Prüfungsform:
- Gesamtmodul: To be announced during the seminar
- Term paper, presentation or oral exam

Lehrveranstaltungsform:
- Seminar

SWS:
- 4.00

Angebotsrhythmus:
- ---

Workload Präsenzzeit:
- 56 h
Spezialisierungsbereich

wcm230 - Dilemmas in Infrastructure Planning

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<td>Teilnahmevoraussetzungen</td>
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<th>Kompetenzziele</th>
<th>After following this course the students are able to:</th>
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<tbody>
<tr>
<td></td>
<td>1. Describe general debates on network and governance theory;</td>
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<tr>
<td></td>
<td>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;</td>
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<tr>
<td></td>
<td>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;</td>
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<td></td>
<td>4. Critically reflect on these problems and dilemmas in planning practice and to develop smart institutional designs to deal with these problems and dilemmas;</td>
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<td></td>
<td>5. Communicate and persuasively present relevant institutional designs to an audience that includes both peers as well as planning professionals.</td>
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</table>

| Modulinhalte                        | 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. |

<table>
<thead>
<tr>
<th>Literaturempfehlungen</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Links</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
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<td>Hinweise</td>
<td>This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen.</td>
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<td>See <a href="https://www.rug.nl/ocasys/frw/vak/show?code=GEMDILEIP">https://www.rug.nl/ocasys/frw/vak/show?code=GEMDILEIP</a> for more information about this course.</td>
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<td>Excursions, Lecture</td>
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<td>Prüfung</td>
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<td>Prüfungszeiten</td>
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<td>Assignments, Mid-term tests digital</td>
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<td>Seminar</td>
</tr>
<tr>
<td>SWS</td>
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wcm240 - Planning Methods and Evaluation

Modulbezeichnung | Planning Methods and Evaluation
--- | ---
Modulcode | wcm240
Kreditpunkte | 5.0 KP
Workload | 150 h
Verwendet in Studiengängen | Master Water and Coastal Management > Spezialisierungsbereich
Ansprechpartner/-in

Kompetenzziele

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.

Project and Programme Management
After following this course students will be able to:

1. describe general characteristics of project, process, multi-project and programme management strategies
2. describe and explain the differences in context the different management strategies require;
3. analyse the success and failure of each management strategy;
4. evaluate under which circumstances which of the management strategies is appropriate;

Modulinhalte

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 MCA 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.

Literaturnachweise

Links

Unterrichtssprache | Englisch
--- | ---
Dauer in Semestern | 1 Semester
Angebotsrhythmus Modul | unbegrenzt
Aufnahmekapazität Modul

Hinweise


Modullevel | BC (Basiscurriculum / Base curriculum)
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<td>Prüfungszeiten</td>
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<td>Workload Präsenzzeit 0 h</td>
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wcm250 - Transitions in Water Management

**Modulbezeichnung**  
Transitions in Water Management

**Modulcode**  
wcm250

**Kreditpunkte**  
5.0 KP

**Workload**  
150 h

**Verwendet in Studiengängen**  
- Master Water and Coastal Management > Spezialisierungsbereich

**Ansprechpartner/-in**

**Teilnahmevoraussetzungen**

**Kompetenzziele**

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. (1C) (2H) (2J) (3C) (6A) (5E)
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)

**Modulinhalte**

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.

**Literaturempfehlungen**

**Links**

**Unterrichtsprachen**

**Dauer in Semestern**  
1 Semester

**Angebotsrhythmus Modul**  
halbjährlich

**Aufnahmekapazität Modul**  
unbegrenzt

**Hinweise**

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.

**Modullevel**

MM (Mastermodul / Master module)

**Modulart**

je nach Studiengang Pflicht oder Wahlpflicht
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<td>Prüfungszeiten</td>
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<tr>
<td>Workload Präsenzzeit</td>
<td>0 h</td>
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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. 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) (3G) (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) (6D)

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)

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.

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.

Journal articles will be supplied.
<table>
<thead>
<tr>
<th>Unterrichtsprachen</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dauer in Semestern</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Angebotsrhythmus Modul</td>
<td></td>
</tr>
<tr>
<td>Aufnahmekapazität Modul</td>
<td>unbegrenzt</td>
</tr>
<tr>
<td>Hinweise</td>
<td>This course is part of the second year of the Double Degree Master Water and Coastal Management and takes place in Groningen. See <a href="https://www.rug.nl/ocasys/frw/vak/show?code=GEMCOMPRPP">https://www.rug.nl/ocasys/frw/vak/show?code=GEMCOMPRPP</a> for more information about this course.</td>
</tr>
<tr>
<td>Modullevel</td>
<td>MM (Mastermodul / Master module)</td>
</tr>
<tr>
<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
</tr>
<tr>
<td>Lern-/Lehrform / Type of program</td>
<td>Guest lectures, Lectures, Seminars</td>
</tr>
<tr>
<td>Vorkenntnisse / Previous knowledge</td>
<td></td>
</tr>
<tr>
<td>Prüfung</td>
<td>Prüfungszeiten</td>
</tr>
<tr>
<td>Gesamtmodul</td>
<td></td>
</tr>
<tr>
<td>Lehrveranstaltungsform</td>
<td>Seminar</td>
</tr>
<tr>
<td>SWS</td>
<td></td>
</tr>
<tr>
<td>Angebotsrhythmus</td>
<td></td>
</tr>
<tr>
<td>Workload Präsenzzeit</td>
<td>0 h</td>
</tr>
</tbody>
</table>
## wcm280 - Reinventing Environmental Planning

<table>
<thead>
<tr>
<th>Modulbezeichnung</th>
<th>Reinventing Environmental Planning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modulcode</td>
<td>wcm280</td>
</tr>
<tr>
<td>Kreditpunkte</td>
<td>5.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>150 h</td>
</tr>
<tr>
<td>Verwendet in Stuudiengängen</td>
<td>Master Water and Coastal Management &gt; Spezialisierungsbereich</td>
</tr>
<tr>
<td>Ansprechpartner/-in</td>
<td></td>
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<tr>
<td>Teilnahmevoraussetzungen</td>
<td></td>
</tr>
</tbody>
</table>

### Kompetenzziele

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, 2c, 2f, 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, 5a, 6a, 6d)

### Modulinhalte

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

### Unterrichtsprachen

### Dauer in Semestern

1 Semester

### Angebotsrhythmus Modul

unbegrenzt

### Hinweise

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

### Modullevel

MM (Mastermodul / Master module)

### Modulart

je nach Studiengang Pflicht oder Wahlpflicht

### Lern-/Lehrform / Type of program

Examination with open questions, Group assignments

### Vorkenntnisse / Previous knowledge

### Prüfung

#### Prüfungszeiten

#### Prüfungsform

### Gesamtmoodle

### Lehrveranstaltungsform

Seminar

### SWS

### Angebotsrhythmus

### Workload Präsenzzeit

0 h
wcm360 - Fieldwork Water Quality

**Module Code**: wcm360  
**Module Name**: Fieldwork Water Quality  
**Credit Points**: 5.0 KP  
**Workload**: 150 h

**Verwendet in Studiengängen**
- Master Water and Coastal Management > Spezialisierungsbereich

**Ansprechpartner/-in**

**Teilnahmevoraussetzungen**

**Kompetenzziele**
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).

**Modulinhalte**
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**

**Unterrichtsprachen**

**Dauer in Semestern**

1 Semester

**Angebotsrhythmus Modul**

unbegrenzt

**Hinweise**

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**

MM (Mastermodul / Master module)

**Modulart**

je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

Excursions, Guest lectures, Lectures, Seminars

**Vorkenntnisse / Previous knowledge**

**Prüfung**

Active participation, Group assignments, Oral presentation

**Gesamtmodul**

**Prüfungszeiten**

**Prüfungsf orm**

Seminar

**Lehrveranstaltungsform**

**SWS**

0 h

**Angebotsrhythmus**

unbegrenzt