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<th>Semester</th>
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<tr>
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<tr>
<td>JM1: Theories &amp; Concepts of Risk</td>
<td>Seminar</td>
<td>6 CP</td>
<td>2 SWS</td>
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<tr>
<td>Written Exam</td>
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<tr>
<td>JM2: General Approaches to Risk &amp; Human Security</td>
<td>2 Seminars</td>
<td>12 CP</td>
<td>4 SWS</td>
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<tr>
<td>New Approaches to Development Geography</td>
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<tr>
<td>Earth System Science</td>
<td>Written Exam</td>
<td></td>
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</tr>
<tr>
<td>JM3: Research Methods</td>
<td>Seminar</td>
<td>6 CP</td>
<td>2 SWS</td>
</tr>
<tr>
<td>Assignments</td>
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<tr>
<td>JM4: Academic Writing &amp; Intercultural Skills</td>
<td>Seminar (non-graded)</td>
<td>4 CP</td>
<td>2 SWS</td>
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<td><strong>2nd Semester</strong></td>
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<tr>
<td>JM5: Advanced Debates on Risk &amp; Human Security</td>
<td>2 Seminars</td>
<td>12 CP</td>
<td>4 SWS</td>
</tr>
<tr>
<td>Presentation 30% &amp; Essay 70% (in each)</td>
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<tr>
<td>JM6: Research Seminar</td>
<td>Research Seminar</td>
<td>18 CP</td>
<td>6 SWS</td>
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<td>Project Work</td>
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<tr>
<td>JM7: Academic Presentation &amp; Communication Skills</td>
<td>Seminar (non-graded)</td>
<td>2 CP</td>
<td>1 SWS</td>
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<tr>
<td><strong>3rd Semester</strong></td>
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<tr>
<td>JM8: Risk Management in the Context of Climate Change</td>
<td>Seminar</td>
<td>6 CP</td>
<td>2 SWS</td>
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<tr>
<td>Presentation 30% &amp; Essay 70%</td>
<td></td>
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</tr>
<tr>
<td>JM9: Disaster Management &amp; Humanitarian Response</td>
<td>Seminar</td>
<td>6 CP</td>
<td>2 SWS</td>
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<tr>
<td>Written Exam</td>
<td></td>
<td></td>
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<tr>
<td>JM10: Field Trips</td>
<td>min. 3 days</td>
<td>4 CP</td>
<td>1 SWS</td>
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<td>JM11: Internship</td>
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<td>12 CP</td>
<td>8 weeks</td>
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<td><strong>4th Semester</strong></td>
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<td>JM12: Master Colloquium</td>
<td>Seminar</td>
<td>2 CP</td>
<td>1 SWS</td>
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<td>Exposé (non-graded)</td>
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<tr>
<td>Master Thesis</td>
<td>Prerequisite: min. of 60 CP must have been achieved</td>
<td>30 CP</td>
<td>6 months</td>
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**Prerequisite:** min. of 60 CP must have been achieved
Module Handbook

MSc in Geography of Environmental Risks and Human Security

(Last update: 2022/11/18)

University of Bonn

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Fax: +49 228 815-0299
E-mail: master-georisk@ehs.unu.edu
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<td>JM8 Risk Management in the Context of Climate Change</td>
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<td>JM11 Internship</td>
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<td>JM12 Masters Colloquium</td>
<td>18</td>
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<tr>
<td>8000 Masters Thesis</td>
<td>19</td>
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</table>
# Module: Theories & Concepts of Risk

## Module Number: JM1

### 1. Contents and Learning outcomes

**Content**
- Introduction into key concepts and theories of vulnerability, risk, resilience, and adaptation
- Paradigm shifts in understanding risk from “natural hazards” to “social vulnerability” perspectives
- Discussion of the main drivers of vulnerability and risk from local to global scales and between structure and agency
- Detailed discussion and analysis of selected case studies through applying key conceptual frameworks
- Overview of key discourses and policy processes dealing with vulnerability, risk, resilience, and adaptation (e.g. IPCC, Sendai Framework, Paris Agreement)

**Learning outcomes/key competencies**
- Ability to understand, reproduce and apply key concepts and theories of vulnerability, risk, resilience and adaptation and to apply them in scientific discussions
- Ability to transfer and link these concepts and the resulting paradigms of risk management to ongoing debates around policy frameworks for applied risk reduction and adaptation (e.g. Sendai Framework, SDGs)
- Ability to derive a critical analysis and reflection on existing concepts regarding their potential, but also their weaknesses for risk assessments and policy guidance

### 2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Theories &amp; Concepts of Risk</td>
<td>EN</td>
<td>24</td>
<td>2</td>
<td>180</td>
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</tbody>
</table>

### 3. Prerequisites for course participation

**required** None

**recommended**

### 4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>1</td>
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</table>

### 5. Prerequisites for the accreditation of ECTS Credits (CPs)

<table>
<thead>
<tr>
<th>Course assignments</th>
<th>Examination and exams’ Language</th>
<th>6 8. Workload</th>
<th>9. Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active in-class discussion and participation, group-work and presentation</td>
<td>Written Exam (EN)</td>
<td>A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study</td>
<td>1 Semester</td>
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### 6. ECTS (CP)

#### 7. Term

| Winter term | ☒ | A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study | 1 Semester |
| Summer term | ☐ |

### Organisation of Module

- **Lecturers**: Lecturers from the Department of Geography (Uni Bonn) and UNU-EHS
- **Module coordinator**: Dr. M. Hagenlocher
- **Department**: UNU-EHS

Status 18.11.2022
| (i.e. Required readings) | The required literature will be determined by the respective lecturer(s). |
# Module: General Approaches to Risk & Human Security

## Module Number: JM2

### 1. Contents and Learning outcomes

#### Content

**New Approaches to Development Geography**
- The characteristics of development geography as a sub-discipline
- Different theoretical approaches and paradigmatic shifts
- New theoretical approaches and interdisciplinary links
- Key themes in geographic research of development and risk

**Earth System Science**
- Concepts and fundamental processes in and between the atmosphere, pedosphere, biosphere, hydrosphere, lithosphere, and cryosphere
- Characteristics of geosystems
- Scales in Earth System Science
- Indicators and impacts of global warming (e.g. cryosphere, hydrosphere) and global environmental change

#### Learning outcomes/key competencies

- Knowledge about different theoretical approaches to society and development and major paradigmatic turns
- Knowledge about fundamental concepts of Earth System Science
- Understanding of relevant social theories and earth surface processes for the analysis of risk & human security in development contexts
- Ability to differentiate and discuss key concepts in development geography
- Ability to differentiate and discuss key concepts of Earth System Science

### 2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
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<tbody>
<tr>
<td>Seminar</td>
<td>New Approaches to Development Geography</td>
<td>EN</td>
<td>24</td>
<td>2</td>
<td>180</td>
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<tr>
<td>Seminar</td>
<td>Earth System Science</td>
<td>EN</td>
<td>24</td>
<td>2</td>
<td>180</td>
</tr>
</tbody>
</table>

### 3. Prerequisites for course participation

- **required**: None
- **recommended**: None

### 4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
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<td>Compulsory</td>
<td>1</td>
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</table>

### 5. Prerequisites for the accreditation of ECTS Credits (CPs)

- **Course assignments**: Active in-class discussion and participation, Assignments in both seminars. Both courses have to be passed. 12

- **Examination and exams’ Language**: Written Exam (EN) in one of the two seminars

### 7. Term

- Winter term: Yes
- Summer term: No

### 8. Workload

- A total of 360 h, comprising 60 h of on-site learning/courses + 300 h of individual study

### 9. Duration

- 1 Semester

### Organisation of Module

- Lecturer(s): Lecturers from the Department of Geography (Uni Bonn) and UNU-EHS

---

Status 18.11.2022
<table>
<thead>
<tr>
<th>Module coordinator</th>
<th>Prof. Dr. J. Budds</th>
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<tr>
<td>Department</td>
<td>Geography, Uni Bonn</td>
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<tr>
<td><strong>Others</strong></td>
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<tr>
<td>(i.e. Required readings)</td>
<td>The required literature will be determined by the respective lecturer(s).</td>
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</table>
Module: Research Methods
Module Number: JM3

1. Contents and Learning outcomes

Content
- Epistemological considerations and theoretical background of selected methodologies
- Potential and limits of selected research methods
- Focus on e.g. qualitative methodologies, discourse analysis, ethnography, text analysis, visual methods, digital methods, project planning & evaluation, quantitative methods, GIS, remote sensing, inter- or transdisciplinary methods, as well as methods used in physical geography such as geomorphological approaches, dendroecology or hydrological modelling.

Learning outcomes/key competencies
- Theoretical knowledge of selected research methodologies
- Ability to design an empirical research project according to selected methodologies
- Knowledge about appropriate methods for analysing empirical data/material
- Ability to assess and critically argue for or against selected research methodologies in relation to theoretical perspectives and concrete research questions
- Awareness of intercultural, postcolonial and ethical issues in research practice
- Ability to handle empirical data/material, interpret/analyse and structure it
- Ability to select and apply appropriate tools and methodologies for data generation in an interdisciplinary context

2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
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<td>Research methods</td>
<td>EN</td>
<td>24</td>
<td>2</td>
<td>180</td>
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</table>

3. Prerequisites for course participation

required None
recommended

4. Classification

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<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
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<tbody>
<tr>
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<td>Compulsory</td>
<td>1</td>
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</table>

5. Prerequisites for the accreditation of ECTS Credits (CPs)

   6. ECTS (CP)

Course assignments
- Active in-class discussion and participation, group-work, moderation and exercises

Examination and exams’ Language
- Assignments
- English (exceptions in German possible)

7. Term

<table>
<thead>
<tr>
<th>Winter term</th>
<th>Summer term</th>
</tr>
</thead>
<tbody>
<tr>
<td>☒</td>
<td>☐</td>
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8. Workload

- A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study

9. Duration

- 1 Semester

Organisation of Module

Lecturer(s)
- Lecturers from the Department of Geography (University of Bonn) & UNU-EHS

Module coordinator
- Prof. Dr. Z. Malenovský

Department
- Geography, Uni Bonn

Others
- (i.e. Required readings) The required literature will be determined by the respective lecturer(s).

Status 18.11.2022
Module: Academic Writing & Intercultural Skills
Module Number: JM4

1. Contents and Learning outcomes

Content
- Literature search and identification of relevant journals and other scientific sources
- Standard formats of academic writing, esp. essays and journal articles
- Time management, revising and proof-reading of academic work
- Intercultural Communication
- Self- and buddy-evaluation of class work

Learning outcomes/ key competencies
- Knowledge of relevant search engines, journal databases etc. for academic literature research
- High Familiarity with the writing and structuring of essays
- High familiarity with academic argumentation in writing
- Ability to communicate research outcomes in written format
- Experience to give peer feedback and critical assess academic writing
- Training intercultural awareness and communication
- Increased intercultural sensitivity and capabilities
- Ability to work and moderate in teams

2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
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3. Prerequisites for course participation

required: None
recommended: None

4. Classification

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<th>Modus</th>
<th>Semester</th>
</tr>
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<td>Compulsory</td>
<td>1</td>
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</table>

5. Prerequisites for the accreditation of ECTS Credits (CPs)

6. ECTS (CP)

Course assignments: Active in-class discussion and participation, individual exercises and group-work
Examination and exams’ Language: non-graded

7. Term

Winter term ☒️ Winter and Summer term ☐
Summer term ☐

8. Workload

A total of 120 h, comprising 30 h of on-site learning/courses + 90 h of individual study

9. Duration

1 Semester

Organisation of Module

Lecturer(s): Lecturers from the Department of Geography (University of Bonn) & UNU-EHS
Module coordinator: Dr. Z. Sebesvari
Department: UNU-EHS

Others
(i.e. Required readings): The required literature will be determined by the respective lecturer(s).

Status 18.11.2022
Module: Advanced Debates on Risk & Human Security

Module Number: JM5

1. Contents and Learning outcomes

Content
Seminars offered in this module focus either on the environmental dimension or the human dimension of risks & human security, depending on their basis in physical or human geography. Some seminars will try to integrate both perspectives.

Environmental Dimension - possible topics include:
- The role of ecosystems for Disaster Risk Reduction
- Development and characteristics of different types of natural hazards, forecast and prediction
- Phenomenon of cascading effects of hazards

Human Dimension - possible topics include:
- Different concepts of human-nature relations, post-humanist approaches
- Knowledge and Ignorance, Living with Risks
- Global technologies in risk governance, policy mobilities

Combined Dimension
- Integrative concepts on natural hazards such as socio-ecology with focus e.g. on hydrology
- Flood risk and social justice
- Ecosystem services

Learning outcomes / key competencies
- Practicing scientific discussion in the context of cutting-edge debates on particular dimensions of risk & human security (more than 50%)
- In-depth engagements with particular theoretical perspectives and key concepts in the natural and/or social sciences
- Ability to participate in academic discourse and situate oneself in more specialized discussions related to risk & human security
- Interdisciplinary reflection on risk and socio-ecological concepts

2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
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<tr>
<td>Seminar</td>
<td>Human/environment/integrative</td>
<td>EN</td>
<td>24</td>
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<td>EN</td>
<td>24</td>
<td>2</td>
<td>180</td>
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3. Prerequisites for course participation
required None
recommended Successful completion of JM1 and JM2

4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
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<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>2</td>
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</table>

5. Prerequisites for the accreditation of ECTS Credits (CPs)

Course assignments
Active in-class discussion and participation, group-work and moderation

Examination and exams’ Language
In both seminars
Presentation 30%, Essay 70%, in English
Both parts have to be passed.

6. ECTS (CP)

| Course assignments | Examination and exams’ Language | | | |
|--------------------|--------------------------------|---|---|
| | | | | |

7. Term

<table>
<thead>
<tr>
<th>Winter term</th>
<th>Winter and Summer term</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☒</td>
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8. Workload

A total of 360 h, comprising 60 h of on-site learning/courses +

9. Duration

1 Semester
<table>
<thead>
<tr>
<th>Organisation of Module</th>
<th>300 h of individual study</th>
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<tr>
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<td>Prof. Dr. L. Schrott</td>
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<td>Department</td>
<td>Geography, Uni Bonn</td>
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<td><strong>Others</strong></td>
</tr>
<tr>
<td>(i.e. Required readings)</td>
<td>The required literature will be determined by the respective lecturer(s).</td>
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</table>
Module: Research Seminar
Module Number: JM6

1. Contents and Learning outcomes

Content
- Development and design of a research project on topics related to cutting-edge debates on risk & human security
- Introduction to theoretical and methodological approaches that inform the research project and design
- (Exploratory) empirical research in small groups
- Analysis and discussion of empirical material
- Presentation of research process and results

Learning outcomes/ key competencies
- Ability to identify and work on relevant research questions independently
- Ability to design and undertake a research project in a small group
- Ability to select appropriate methods to adequately address the research question
- Ability to interpret or analyse empirical material in relation to theoretical debates
- Ability to communicate the research process and outcomes verbally, visually and in written form
- Ability to work and communicate research in teams
- Critical reflection and creativity

2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
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<tbody>
<tr>
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<td>Research Project</td>
<td>EN</td>
<td>24</td>
<td>6</td>
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3. Prerequisites for course participation

required None
recommended

4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>2</td>
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</tbody>
</table>

5. Prerequisites for the accreditation of ECTS Credits (CPs)

Course assignments Active in-class discussion and participation, group-work and moderation 18

Examination and exams’ Language Project Report, in English

7. Term

<table>
<thead>
<tr>
<th>Winter term</th>
<th>Summer term</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☒</td>
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</tbody>
</table>

8. Workload

A total of 540 h, comprising 120 h of on-site learning/courses + 420 h of individual (and group) study

9. Duration

1 Semester

Organisation of Module

Lecturer(s) Lecturers from the Department of Geography (University of Bonn) & UNU-EHS
Module coordinator Prof. Dr. L. Schipper
Department Geography, Uni Bonn

Others (i.e. Required readings) The required literature will be determined by the respective lecturer(s).

Status 18.11.2022
Module: Academic Presentation & Communication Skills
Module Number: JM7

1. Contents and Learning outcomes

Content
- Basics and training of effective, target group-oriented communication of scientific contents
- Analyses of exemplary presentations, self- & buddy-evaluation of class works
- Principles & tools of visualization in relation to accessible media

Learning outcomes/ key competencies
- Ability to communicate research outcomes in different ways (visually, textually, orally) to a variety of audiences and moderate/mediate between them
- Experience with target group-oriented communication and moderation
- Increased interpersonal communication and networking skills
- Familiarity with academic argumentation in oral presentation and communication

2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar</td>
<td>Presentation and Communication Skills</td>
<td>EN</td>
<td>24</td>
<td>1</td>
<td>60</td>
</tr>
</tbody>
</table>

3. Prerequisites for course participation

Required None
Recommended

4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>2</td>
</tr>
</tbody>
</table>

5. Prerequisites for the accreditation of ECTS Credits (CPs)

<table>
<thead>
<tr>
<th>Course assignments</th>
<th>6. ECTS (CP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active in-class discussion and participation, individual exercises and group-work</td>
<td>2</td>
</tr>
<tr>
<td>Examination and exams’ Language</td>
<td>Non-graded</td>
</tr>
</tbody>
</table>

7. Term

<table>
<thead>
<tr>
<th>Winter term</th>
<th>Summer term</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☑</td>
</tr>
<tr>
<td>☑</td>
<td>☐</td>
</tr>
</tbody>
</table>

8. Workload

A total of 60 h, comprising 15 h of on-site learning/courses + 45 h of individual study

9. Duration

1 Semester

Organisation of Module

Lecturer(s) Lecturers from the Department of Geography (University of Bonn) & UNU-EHS
Module coordinator Dr. Z. Sebesvari
Department UNU-EHS

Others
(i.e. Required readings) The required literature will be determined by the respective lecturer(s).
## 1. Contents and Learning outcomes

### Content
Applied debates on risk and climate change. Possible course foci include:

- Risk management mechanisms of international organizations, NGO’s, private sector.
- Introduction of important international policy making processes (UNFCCC, Sendai, SDGs, G7, G20) and how they address and deal with issues like climate risk management.
- Concepts of hazard and exposure modelling and how to value benefits of adaptation measures based on the Economics of Climate Adaptation (ECA) method.
- Loss & Damage as a result of climate change.
- The triggers and impacts of Environmental Migration.
- Climate Insurance.

### Learning outcomes/ key competencies
- Familiarity with major policy fora (international / UN, regional, national) to promote risk management and govern environmental risks.
- Gain real-world insight into and understanding of practical implementation of theoretical concepts of risk management and their application in the context of addressing climate change risks.
- Ability to critically discuss competing concepts of environmental governance and climate risk management and their implementation.
- Knowledge of international policy frameworks.
- Ability to independently elaborate on a particular topic and distil a specific research question.

## 2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar</td>
<td>Risk Management in the Context of Climate Change</td>
<td>EN</td>
<td>24</td>
<td>2</td>
<td>180</td>
</tr>
</tbody>
</table>

## 3. Prerequisites for course participation

- Required: None
- Recommended: None

## 4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>3</td>
</tr>
</tbody>
</table>

## 5. Prerequisites for the accreditation of ECTS Credits (CPs)

<table>
<thead>
<tr>
<th>Course assignments</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active in-class discussion and participation, group-work, moderation and presentation</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

## 6. ECTS (CP)

- Course assignments: 6 CPs
- Examination and exams' Language: Presentation 30%, Essay 70%, in English
- Both parts have to be passed.

## 7. Term

<table>
<thead>
<tr>
<th>Winter term</th>
<th>Summer term</th>
</tr>
</thead>
<tbody>
<tr>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>Winter and Summer term</td>
<td>☐</td>
</tr>
</tbody>
</table>

## 8. Workload

- A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study

## 9. Duration

- 1 Semester
<table>
<thead>
<tr>
<th>Lecturer(s)</th>
<th>Lecturers from the Department of Geography (University of Bonn) &amp; UNU-EHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module coordinator</td>
<td>S. Kreft</td>
</tr>
<tr>
<td>Department</td>
<td>UNU-EHS</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td></td>
</tr>
<tr>
<td><em>(i.e. Required readings)</em></td>
<td>The required literature will be determined by the respective lecturer(s).*</td>
</tr>
</tbody>
</table>
1. Contents and Learning outcomes

Content

Applied debates on disaster risk reduction and human security. Possible course foci include:
- Basics in disaster management and humanitarian action (humanitarian principles)
- Best practices in disaster management and humanitarian response from the local, national to international perspective
- Structures and mechanisms of national civil protection, EU and UN, other international organizations, NGO’s, private sector
- Standard Operating Procedures (SOP), Code of Conduct, Sphere Project OSOCC, Virtual OSOCC, CERF, IASC Transformative Agenda
- Health, Water, Sanitation and Hygiene in humanitarian action and development assistance
- The role of media in DRR and disaster relief

Learning outcomes/key competencies

- Gain a profound understanding of how theoretical concepts are translated and adapted to practical concerns, economic considerations and humanitarian response mechanisms.
- Understanding civil protection mechanisms and humanitarian response architecture from the national to the global level.
- Comprehensive knowledge of structures, workflows, and practical challenges that international organizations, particularly UN organizations, are facing.

2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar</td>
<td>Disaster Management &amp; Humanitarian Response</td>
<td>EN</td>
<td>24</td>
<td>2</td>
<td>180</td>
</tr>
</tbody>
</table>

3. Prerequisites for course participation

required None

recommended None

4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>3</td>
</tr>
</tbody>
</table>

5. Prerequisites for the accreditation of ECTS Credits (CPs)

Course assignments

Active in-class discussion and participation, group-work, moderation and presentation

Examination and exams’ Language

Written exam, in English

6. ECTS (CP)

Course assignments 6

7. Term

Winter term ☒ Winter and
Summer term ☐ Summer term ☐

A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study

8. Workload

1 Semester

9. Duration

Organisation of Module

Lecturer(s) Lecturers from the Department of Geography (University of Bonn) & UNU-EHS

Module coordinator Prof. Dr. J. Szarzynski

Status 18.11.2022
<table>
<thead>
<tr>
<th>Department</th>
<th>UNU-EHS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Others</strong></td>
<td></td>
</tr>
<tr>
<td>(i.e. Required readings)</td>
<td>The required literature will be determined by the respective lecturer(s).</td>
</tr>
</tbody>
</table>
# Module: Fieldtrips

**Module Number:** JM10

## 1. Contents and Learning outcomes

### Content
Students have to take part in at least three days of fieldtrips. They will be organised to convey a deeper insight into topics relevant to the wider understanding of environmental risks & human security.

### Learning outcomes/key competencies
- Insights in institutions working in the field of environmental risks & human security
- Learning from professionals actively engaged in the field of environmental risks & human security
- Ability to lead and participate in expert interviews
- Learning the principles of geographic observation
- Ability to apply theoretical and methodological knowledge in specific settings and professional working environments

## 2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Trips</td>
<td>Excursions (min 3 days)</td>
<td>EN</td>
<td>24</td>
<td>1</td>
<td>120</td>
</tr>
</tbody>
</table>

## 3. Prerequisites for course participation

**required** None

**recommended**

## 4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>3</td>
</tr>
</tbody>
</table>

## 5. Prerequisites for the accreditation of ECTS Credits (CPs)

### Course assignments
Preparatory reading and exercises, active discussion and participation, excursion report

### Examination and exams’ Language
non-graded

## 6. ECTS (CP)

### 7. Term

<table>
<thead>
<tr>
<th>Winter term</th>
<th>☐</th>
<th>Winter and Summer term</th>
<th>☑</th>
<th>☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td>☒</td>
<td>Summer term</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 8. Workload
A total of 120 h, comprising 30 h of on-site learning + 90 h of individual study

### 9. Duration
min. of 3 days

## Organisation of Module

**Lecturer(s):** Lecturers from the Department of Geography (University of Bonn) & UNU-EHS

**Module coordinator:** K. Hattenbach

**Department:** UNU-EHS

**Others**
(i.e. Required readings)

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Status 18.11.2022
### Module: Internship

**Module Number:** JM11

#### 1. Contents and Learning outcomes

**Content**
The internship may take place in any national / international institution or organization working in thematic fields relevant to this programme. Students choose their own work placement in fields relevant to this Master Programme.

**Learning outcomes/key competencies**
- Understanding structures and workflows within national / international key organizations related to the topics of this Master Programme
- Professional experience within national / international organizations or collaborative networks
- Successful application of knowledge and skills acquired during the Master Programme within a professional working environment

#### 2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Internship</td>
<td>Related to Master subjects</td>
<td>EN</td>
<td></td>
<td>8 weeks min</td>
<td>360</td>
</tr>
</tbody>
</table>

#### 3. Prerequisites for course participation

**required**
None

**recommended**

#### 4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>3</td>
</tr>
</tbody>
</table>

#### 5. Prerequisites for the accreditation of ECTS Credits (CPs)

**Course assignments**
Internship final report and assessments

**Examination and exams’ Language**
non-graded

**6. ECTS (CP)**

<table>
<thead>
<tr>
<th>Language</th>
<th>12</th>
</tr>
</thead>
</table>

#### 7. Term

**Winter term**
☐ Winter and

**Summer term**
☐ Summer term

**8. Workload**

A total of 360 h, comprising 320 h of on-site learning/internship + 40 h of individual study

**9. Duration**

8 weeks minimum

#### Organisation of Module

**Lecturer(s)**
Lecturers from the UNU-EHS

**Module coordinator**
K. Hattenbach

**Department**
UNU-EHS

**Others**
(i.e. Required readings)
1. Contents and Learning outcomes

Content
- Scientifically justified selection, presentation and discussion of a research topic chosen from a field related to the Master’s subject
- Development of a scientific research question, convincing argument, linkages to theories and concepts, justified selection and application of research methods, interpretation/analysis of data, conclusions
- Independent development of a thesis proposal, including conceptual frameworks, relevant disciplinary theoretical debates, and methodological questions
- Critical reflection of one’s own scientific work in the context of current debates in the field of geographical research on environmental risks and human security as well as today’s socio-political concerns
- Discussion of research proposals and peer-feedback

Learning outcomes/key competencies
- Strengthening the ability to conceptually frame and discuss one’s research interests
- Increased awareness of one’s own perspective and position in the research process
- Ability to search and select relevant literature and other information regarding the research topic to develop a clear argument/research question in the context of current theoretical and methodological debates
- Competence in the planning and organization of a scientific project
- Language and Communication skills (i.e. scientific argumentation, presentation of research process)
- Ability to deal with and incorporate peer-feedback

2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colloquium</td>
<td>Master Colloquium</td>
<td>EN</td>
<td>10</td>
<td>1</td>
<td>60 h</td>
</tr>
</tbody>
</table>

3. Prerequisites for course participation

required The participation in the Colloquium is recommended at the time when the student is actually working on the Master’s Thesis.

recommended

4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>4</td>
</tr>
</tbody>
</table>

5. Prerequisites for the accreditation of ECTS Credits (CPs)

Course assignments Exposé
Examination and exams’ Language non-graded

6. ECTS (CP)

7. Term

<table>
<thead>
<tr>
<th>Winter term</th>
<th>Summer term</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>☑</td>
</tr>
</tbody>
</table>

8. Workload

A total of 60 h, comprising 20 h of on-site learning/courses + 40 h of individual study

9. Duration

1 Semester

Organisation of Module

Lecturer(s) Lecturers from the Department of Geography (University of Bonn) & UNU-EHS
Module coordinator Prof. Dr. J. Budds

Status 18.11.2022
<table>
<thead>
<tr>
<th>Department</th>
<th>Geography, Uni Bonn</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Others</strong></td>
<td></td>
</tr>
<tr>
<td>(i.e. Required readings)</td>
<td></td>
</tr>
</tbody>
</table>
### 1. Contents and Learning outcomes

**Content**
Topics of the Master Thesis may be chosen from any relevant field of the Master Programme’s curriculum with approval from the supervisor. All theses should include the development of a research focus, its theoretical and methodological contextualisation, a thorough discussion of relevant literature or the analysis/interpretation of (original) empirical material and conclusive thoughts.

**Learning outcomes/key competencies**
- Solve a well-defined, significant research problem under supervision, but in principle independently
- Knowledge about theoretical, methodological and thematic context of the chosen research topic
- Ability to argue convincingly according to scientific principles
- Write a scientific documentation of considerable length according to established scientific principles of form and style, in particular reflecting solid knowledge about the state-of-the-art in the field
- Time-management

### 2. Course organisation

<table>
<thead>
<tr>
<th>Format</th>
<th>Theme</th>
<th>Language</th>
<th>Group Size</th>
<th>Hours per week</th>
<th>Workload [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independent</td>
<td>preparation and writing of Master’s Thesis with individual supervision</td>
<td>EN</td>
<td>6 months</td>
<td></td>
<td>900</td>
</tr>
</tbody>
</table>

### 3. Prerequisites for course participation

**required**

**recommended**
Min. of 60 CP must have been achieved within the Master Programme.

### 4. Classification

<table>
<thead>
<tr>
<th>Programme</th>
<th>Modus</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Geography of Environmental Risks and Human Security</td>
<td>Compulsory</td>
<td>4</td>
</tr>
</tbody>
</table>

### 5. Prerequisites for the accreditation of ECTS Credits (CPs)

<table>
<thead>
<tr>
<th>Course assignments</th>
<th>Examination and exams’ Language</th>
<th>ECTS (CP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation of thesis proposal, active participation in academic discussion and peer feedback</td>
<td>Master Thesis, in English</td>
<td>30</td>
</tr>
</tbody>
</table>

### 6. Workload

<table>
<thead>
<tr>
<th>Winter term</th>
<th>Winter and</th>
<th>900 h of individual study</th>
<th>6 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer term</td>
<td>Summer term</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 7. Duration

- Winter term
- Summer term

### 8. Organisation of Module

- Lecturer(s): Lecturers from the Department of Geography (University of Bonn) & UNU-EHS
- Module coordinator: Prof. Dr. J. Budds
- Department: Geography, Uni Bonn
- Others: (i.e. Required readings)