

1st Semester

**JM1: Theories & Concepts of Risk**  
Seminar  
Written Exam  
  
6 CP | 2 SWS

**JM2: General Approaches to Risk & Human Security**  
2 Seminars  
New Approaches to Development Geography  
Earth System Science  
Written Exam  
  
12 CP | 4 SWS

**JM3: Research Methods**  
Seminar  
Assignments  
  
6 CP | 2 SWS

**JM4: Academic Writing & Intercultural Skills**  
Seminar  
Assignments (non-graded)  
  
4 CP | 2 SWS

2nd Semester

**JM5: Advanced Debates on Risk & Human Security**  
2 Seminars  
Presentation 30% & Essay 70% (in each)  
  
12 CP | 4 SWS

**JM6: Research Seminar**  
Research Seminar  
Project Work  
  
18 CP | 6 SWS

**JM7: Academic Presentation & Communication Skills**  
Seminar  
Assignments (non-graded)  
  
2 CP | 1 SWS

3rd Semester

**JM8: Risk Management in the Context of Climate Change**  
Seminar  
Presentation 30% & Essay 70%  
  
6 CP | 2 SWS

**JM9: Disaster Management & Humanitarian Response**  
Seminar  
Written Exam  
  
6 CP | 2 SWS

**JM10: Field Trips**  
min. 3 days  
Report (non-graded)  
  
4 CP | 1 SWS

**JM11: Internship**  
Report (non-graded)  
  
12 CP | 8 weeks

4th Semester

**JM12: Master Colloquium**  
Seminar  
Exposé (non-graded)  
  
2 CP | 1 SWS

**Master Thesis**  
Prerequisite: min. of 60 CP must have been achieved  
Master thesis  
  
30 CP | 6 months

# Module Handbook

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## MSc in Geography of Environmental Risks and Human Security

(Last update: 2024/01/29)

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<b>Module: Theories &amp; Concepts of Risk</b>					<b>JM1</b>	
Module Number: JM1						
<b>1. Contents and Learning outcomes</b>						
Content	<ul style="list-style-type: none"> <li>• Introduction into key concepts and theories of vulnerability, risk, resilience, and adaptation</li> <li>• Paradigm shifts in understanding risk from “natural hazards” to “social vulnerability” perspectives</li> <li>• Discussion of the main drivers of vulnerability and risk from local to global scales and between structure and agency</li> <li>• Detailed discussion and analysis of selected case studies through applying key conceptual frameworks</li> <li>• Overview of key discourses and policy processes dealing with vulnerability, risk, resilience, and adaptation (e.g. IPCC, Sendai Framework, Paris Agreement)</li> </ul>					
Learning outcomes/key competencies	<ul style="list-style-type: none"> <li>• Ability to understand, reproduce and apply key concepts and theories of vulnerability, risk, resilience and adaptation and to apply them in scientific discussions</li> <li>• 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)</li> <li>• Ability to derive a critical analysis and reflection on existing concepts regarding their potential, but also their weaknesses for risk assessments and policy guidance</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Seminar	Theories & Concepts of Risk	EN	24	2	180
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	1	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Active in-class discussion and participation, group-work and presentation				6	
Examination and exams' Language	Written Exam (EN)					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input checked="" type="checkbox"/>	Winter and	A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study		1 Semester	
Summer term	<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturers	Lecturers from the Department of Geography (Uni Bonn) and UNU-EHS					
Module coordinator	Dr. M. Hagenlocher					
Department	UNU-EHS					
<b>Others</b>						

(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).
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<b>Module: General Approaches to Risk &amp; Human Security</b>					<b>JM2</b>	
Module Number: JM2						
<b>1. Contents and Learning outcomes</b>						
Content	<p><b>New Approaches to Development Geography</b></p> <ul style="list-style-type: none"> <li>The characteristics of development geography as a sub-discipline</li> <li>Different theoretical approaches and paradigmatic shifts</li> <li>New theoretical approaches and interdisciplinary links</li> <li>Key themes in geographic research of development and risk</li> </ul> <p><b>Earth System Science</b></p> <ul style="list-style-type: none"> <li>Concepts and fundamental processes in and between the atmosphere, pedosphere, biosphere, hydrosphere, lithosphere, and cryosphere</li> <li>Characteristics of geosystems</li> <li>Scales in Earth System Science</li> <li>Indicators and impacts of global warming (e.g. cryosphere, hydrosphere) and global environmental change</li> </ul>					
Learning outcomes/ key competencies	<ul style="list-style-type: none"> <li>Knowledge about different theoretical approaches to society and development and major paradigmatic turns</li> <li>Knowledge about fundamental concepts of Earth System Science</li> <li>Understanding of relevant social theories and earth surface processes for the analysis of risk &amp; human security in development contexts</li> <li>Ability to differentiate and discuss key concepts in development geography</li> <li>Ability to differentiate and discuss key concepts of Earth System Science</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Seminar	New Approaches to Development Geography	EN	24	2	180
	Seminar	Earth System Science	EN	24	2	180
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme		Modus		Semester	
	MSc Geography of Environmental Risks and Human Security		Compulsory		1	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	<ul style="list-style-type: none"> <li>Active in-class discussion and participation, Assignments in both seminars. Both courses have to be passed.</li> </ul>				12	
Examination and exams' Language	Written Exam (EN) in one of the two seminars					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input checked="" type="checkbox"/>	Winter and	A total of 360 h, comprising 60 h of on-site learning/courses + 300 h of individual study		1 Semester	
Summer term	<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (Uni Bonn) and UNU-EHS					

Module coordinator	Prof. Dr. J. Budds
Department	Geography, Uni Bonn
<b>Others</b>	
(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).

<b>Module: Research Methods</b>					<b>JM3</b>	
Module Number: JM3						
<b>1. Contents and Learning outcomes</b>						
Content	<ul style="list-style-type: none"> <li>• Epistemological considerations and theoretical background of selected methodologies</li> <li>• Potential and limits of selected research methods</li> <li>• Focus on e.g. qualitative methodologies, discourse analysis, ethnography, text analysis, visual methods, digital methods, project planning &amp; 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.</li> </ul>					
Learning outcomes/ key competencies	<ul style="list-style-type: none"> <li>• Theoretical knowledge of selected research methodologies</li> <li>• Ability to design an empirical research project according to selected methodologies</li> <li>• Knowledge about appropriate methods for analysing empirical data/material</li> <li>• Ability to assess and critically argue for or against selected research methodologies in relation to theoretical perspectives and concrete research questions</li> <li>• Awareness of intercultural, postcolonial and ethical issues in research practice</li> <li>• Ability to handle empirical data/material, interpret/analyse and structure it</li> <li>• Ability to select and apply appropriate tools and methodologies for data generation in an interdisciplinary context</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Seminar	Research methods	EN	24	2	180
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	1	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Active in-class discussion and participation, group-work, moderation and exercises					6
Examination and exams' Language	Assignments English (exceptions in German possible)					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input checked="" type="checkbox"/>	Winter and	A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study		1 Semester	
Summer term	<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator	Prof. Dr. Z. Malenovský					
Department	Geography, Uni Bonn					
<b>Others</b>						
(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).					



<b>Module: Academic Writing &amp; Intercultural Skills</b>				<b>JM4</b>		
Module Number: JM4						
<b>1. Contents and Learning outcomes</b>						
Content	<ul style="list-style-type: none"> <li>Literature search and identification of relevant journals and other scientific sources</li> <li>Standard formats of academic writing, esp. essays and journal articles</li> <li>Time management, revising and proof-reading of academic work</li> <li>Intercultural Communication</li> <li>Self- and buddy-evaluation of class work</li> </ul>					
Learning outcomes/ key competencies	<ul style="list-style-type: none"> <li>Knowledge of relevant search engines, journal databases etc. for academic literature research</li> <li>High Familiarity with the writing and structuring of essays</li> <li>High familiarity with academic argumentation in writing</li> <li>Ability to communicate research outcomes in written format</li> <li>Experience to give peer feedback and critical assess academic writing</li> <li>Training intercultural awareness and communication</li> <li>Increased intercultural sensitivity and capabilities</li> <li>Ability to work and moderate in teams</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Seminar	Academic Writing & Intercultural Skills	EN	24	2	120
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	1	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Active in-class discussion and participation, individual exercises and group-work					4
Examination and exams' Language	non-graded					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input checked="" type="checkbox"/>	Winter and	A total of 120 h, comprising 30 h of on-site learning/courses + 90 h of individual study		1 Semester	
Summer term	<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator	Dr. Z. Sebesvari					
Department	UNU-EHS					
<b>Others</b>						
(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).					

<b>Module: Advanced Debates on Risk &amp; Human Security</b>					<b>JM5</b>	
Module Number: JM5						
<b>1. Contents and Learning outcomes</b>						
Content	<p>Seminars offered in this module focus either on the environmental dimension or the human dimension of risks &amp; human security, depending on their basis in physical or human geography. Some seminars will try to integrate both perspectives.</p> <p><b>Environmental Dimension</b> - possible topics include:</p> <ul style="list-style-type: none"> <li>• The role of ecosystems for Disaster Risk Reduction</li> <li>• Development and characteristics of different types of natural hazards, forecast and prediction</li> <li>• Phenomenon of cascading effects of hazards</li> </ul> <p><b>Human Dimension</b> - possible topics include:</p> <ul style="list-style-type: none"> <li>• Different concepts of human-nature relations, post-humanist approaches</li> <li>• Knowledge and Ignorance, Living with Risks</li> <li>• Global technologies in risk governance, policy mobilities</li> </ul> <p><b>Combined Dimension</b></p> <ul style="list-style-type: none"> <li>• Integrative concepts on natural hazards such as socio-ecology with focus e.g. on hydrology</li> <li>• Flood risk and social justice</li> <li>• Ecosystem services</li> </ul>					
Learning outcomes/ key competencies	<ul style="list-style-type: none"> <li>• Practicing scientific discussion in the context of cutting-edge debates on particular dimensions of risk &amp; human security (more than 50%)</li> <li>• In-depth engagements with particular theoretical perspectives and key concepts in the natural and/or social sciences</li> <li>• Ability to participate in academic discourse and situate oneself in more specialized discussions related to risk &amp; human security</li> <li>• Interdisciplinary reflection on risk and socio-ecological concepts</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Seminar	Human/environment/integrative	EN	24	2	180
	Seminar	Human/environment/integrative	EN	24	2	180
<b>3. Prerequisites for course participation</b>						
required	None					
recommended	Successful completion of JM1 and JM2					
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	2	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Active in-class discussion and participation, group-work and moderation					12
Examination and exams' Language	In both seminars Presentation 30%, Essay 70%, in English Both parts have to be passed.					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input type="checkbox"/>	Winter and	A total of 360 h, comprising 60 h of on-site learning/courses +		1 Semester	
Summer term	<input checked="" type="checkbox"/>	Summer term				

	300 h of individual study	
<b>Organisation of Module</b>		
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS	
Module coordinator	Prof. Dr. L. Schrott	
Department	Geography, Uni Bonn	
<b>Others</b>		
(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).	

<b>Module: Research Seminar</b> Module Number: JM6				<b>JM6</b>		
<b>1. Contents and Learning outcomes</b>						
Content	<ul style="list-style-type: none"> <li>• Development and design of a research project on topics related to cutting-edge debates on risk &amp; human security</li> <li>• Introduction to theoretical and methodological approaches that inform the research project and design</li> <li>• (Exploratory) empirical research in small groups</li> <li>• Analysis and discussion of empirical material</li> <li>• Presentation of research process and results</li> </ul>					
Learning outcomes/ key competencies	<ul style="list-style-type: none"> <li>• Ability to identify and work on relevant research questions independently</li> <li>• Ability to design and undertake a research project in a small group</li> <li>• Ability to select appropriate methods to adequately address the research question</li> <li>• Ability to interpret or analyse empirical material in relation to theoretical debates</li> <li>• Ability to communicate the research process and outcomes verbally, visually and in written form</li> <li>• Ability to work and communicate research in teams</li> <li>• Critical reflection and creativity</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Seminar	Research Project	EN	24	6	540
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	2	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Active in-class discussion and participation, group-work and moderation					18
Examination and exams' Language	Project Report, in English					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input type="checkbox"/>	Winter and	A total of 540 h, comprising 120 h of on-site learning/courses+ 420 h of individual (and group) study		1 Semester	
Summer term	<input checked="" type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator	Prof. Dr. L. Schipper					
Department	Geography, Uni Bonn					
<b>Others</b>						
(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).					

<b>Module: Academic Presentation &amp; Communication Skills</b>						<b>JM7</b>	
Module Number: JM7							
<b>1. Contents and Learning outcomes</b>							
Content		<ul style="list-style-type: none"> <li>Basics and training of effective, target group-oriented communication of scientific contents</li> <li>Analyses of exemplary presentations, self- &amp; buddy-evaluation of class works</li> <li>Principles &amp; tools of visualization in relation to accessible media</li> </ul>					
Learning outcomes/ key competencies		<ul style="list-style-type: none"> <li>Ability to communicate research outcomes in different ways (visually, textually, orally) to a variety of audiences and moderate/mediate between them</li> <li>Experience with target group-oriented communication and moderation</li> <li>Increased interpersonal communication and networking skills</li> <li>Familiarity with academic argumentation in oral presentation and communication</li> </ul>					
<b>2. Course organisation</b>							
	Format	Theme	Language	Group Size	Hours per week	Workload [h]	
	Seminar	Presentation and Communication Skills	EN	24	1	60	
<b>3. Prerequisites for course participation</b>							
Required		None					
Recommended							
<b>4. Classification</b>							
Programme			Modus		Semester		
MSc Geography of Environmental Risks and Human Security			Compulsory		2		
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>						<b>6. ECTS (CP)</b>	
Course assignments		Active in-class discussion and participation, individual exercises and group-work				2	
Examination and exams' Language		Non-graded					
<b>7. Term</b>			<b>8. Workload</b>			<b>9. Duration</b>	
Winter term <input type="checkbox"/>		Winter and		A total of 60 h, comprising 15 h of on-site learning/courses + 45 h of individual study		1 Semester	
Summer term <input checked="" type="checkbox"/>		Summer term <input type="checkbox"/>					
<b>Organisation of Module</b>							
Lecturer(s)		Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator		Prof. Dr. J. Budds					
Department		UNU-EHS					
<b>Others</b>							
(i.e. Required readings)		The required literature will be determined by the respective lecturer(s).					

<b>Module: Risk Management in the Context of Climate Change</b>						<b>JM8</b>	
Module Number: JM8							
<b>1. Contents and Learning outcomes</b>							
Content		Applied debates on risk and climate change. Possible course foci include: <ul style="list-style-type: none"> <li>• Risk management mechanisms of international organizations, NGO's, private sector.</li> <li>• Introduction of important international policy making processes (UNFCCC, Sendai, SDGs, G7, G20) and how they address and deal with issues like climate risk management.</li> <li>• Concepts of hazard and exposure modelling and how to value benefits of adaptation measures based on the Economics of Climate Adaptation (ECA) method.</li> <li>• Loss &amp; Damage as a result of climate change.</li> <li>• The triggers and impacts of Environmental Migration.</li> <li>• Climate Insurance.</li> </ul>					
Learning outcomes/ key competencies		<ul style="list-style-type: none"> <li>• Familiarity with major policy fora (international / UN, regional, national) to promote risk management and govern environmental risks.</li> <li>• 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.</li> <li>• Ability to critically discuss competing concepts of environmental governance and climate risk management and their implementation.</li> <li>• Knowledge of international policy frameworks.</li> <li>• Ability to independently elaborate on a particular topic and distil a specific research question.</li> </ul>					
<b>2. Course organisation</b>							
		Format	Theme	Language	Group Size	Hours per week	Workload [h]
		Seminar	Risk Management in the Context of Climate Change	EN	24	2	180
<b>3. Prerequisites for course participation</b>							
Required		None					
recommended							
<b>4. Classification</b>							
		Programme			Modus	Semester	
		MSc Geography of Environmental Risks and Human Security			Compulsory	3	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>						<b>6. ECTS (CP)</b>	
Course assignments		Active in-class discussion and participation, group-work, moderation and presentation				6	
Examination and exams' Language		Presentation 30%, Essay 70%, in English Both parts have to be passed.					
<b>7. Term</b>			<b>8. Workload</b>			<b>9. Duration</b>	
Winter term		<input checked="" type="checkbox"/>	Winter and		A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study		
Summer term		<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>							

Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS
Module coordinator	S. Kreft
Department	UNU-EHS
<b>Others</b>	
(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).

<b>Module: Disaster Management &amp; Humanitarian Response</b>						<b>JM9</b>
Module Number: JM9						
<b>1. Contents and Learning outcomes</b>						
Content	<p>Applied debates on disaster risk reduction and human security. Possible course foci include:</p> <ul style="list-style-type: none"> <li>• Basics in disaster management and humanitarian action (humanitarian principles)</li> <li>• Best practices in disaster management and humanitarian response from the local, national to international perspective</li> <li>• Structures and mechanisms of national civil protection, EU and UN, other international organizations, NGO's, private sector</li> <li>• Standard Operating Procedures (SOP), Code of Conduct, Sphere Project OSOCC, Virtual OSOCC, CERF, IASC Transformative Agenda</li> <li>• Health, Water, Sanitation and Hygiene in humanitarian action and development assistance</li> <li>• The role of media in DRR and disaster relief</li> </ul>					
Learning outcomes/ key competencies	<ul style="list-style-type: none"> <li>• Gain a profound understanding of how theoretical concepts are translated and adapted to practical concerns, economic considerations and humanitarian response mechanisms.</li> <li>• Understanding civil protection mechanisms and humanitarian response architecture from the national to the global level.</li> <li>• Comprehensive knowledge of structures, workflows, and practical challenges that international organizations, particularly UN organizations, are facing.</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Seminar	Disaster Management & Humanitarian Response	EN	24	2	180
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	3	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>						<b>6. ECTS (CP)</b>
Course assignments	Active in-class discussion and participation, group-work, moderation and presentation					6
Examination and exams' Language	Written exam, in English					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input checked="" type="checkbox"/>	Winter and	A total of 180 h, comprising 30 h of on-site learning/courses + 150 h of individual study		1 Semester	
Summer term	<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator	Prof. Dr. J. Szarzynski					



Department	UNU-EHS
<b>Others</b>	
(i.e. Required readings)	The required literature will be determined by the respective lecturer(s).

<b>Module: Fieldtrips</b> Module Number: JM10				<b>JM10</b>		
<b>1. Contents and Learning outcomes</b>						
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	<ul style="list-style-type: none"> <li>• Insights in institutions working in the field of environmental risks &amp; human security</li> <li>• Learning from professionals actively engaged in the field of environmental risks &amp; human security</li> <li>• Ability to lead and participate in expert interviews</li> <li>• Learning the principles of geographic observation</li> <li>• Ability to apply theoretical and methodological knowledge in specific settings and professional working environments</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Field Trips	Excursions (min 3 days)	EN	24	1	120
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	3	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Preparatory reading and exercises, active discussion and participation, excursion report				4	
Examination and exams' Language	non-graded					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input type="checkbox"/>	Winter and	A total of 120 h, comprising 30 h of on-site learning+ 90 h of individual study		min. of 3 days	
Summer term	<input checked="" type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator	K. Hattenbach					
Department	UNU-EHS					
<b>Others</b>						
(i.e. Required readings)						

<b>Module: Internship</b> Module Number: JM11				<b>JM11</b>		
<b>1. Contents and Learning outcomes</b>						
Content	The internship may take place in any national / international institution or organisation 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	<ul style="list-style-type: none"> <li>• Understanding structures and workflows within national / international key organizations related to the topics of this Master Programme</li> <li>• Professional experience within national / international organizations or collaborative networks</li> <li>• Successful application of knowledge and skills acquired during the Master Programme within a professional working environment</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Individual Internship	Related to Master subjects	EN		8 weeks min	360
<b>3. Prerequisites for course participation</b>						
required	None					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	3	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Internship final report and assessments					12
Examination and exams' Language	non-graded					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input type="checkbox"/>	Winter and	A total of 360 h, comprising 320 h of on-site learning/internship + 40 h of individual study		8 weeks minimum	
Summer term	<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the UNU-EHS					
Module coordinator	K. Hattenbach					
Department	UNU-EHS					
<b>Others</b>						
(i.e. Required readings)						

<b>Module: Masters Colloquium</b> Module Number: JM12				<b>JM12</b>		
<b>1. Contents and Learning outcomes</b>						
Content	<ul style="list-style-type: none"> <li>Scientifically justified selection, presentation and discussion of a research topic chosen from a field related to the Master's subject</li> <li>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</li> <li>Independent development of a thesis proposal, including conceptual frameworks, relevant disciplinary theoretical debates, and methodological questions</li> <li>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</li> <li>Discussion of research proposals and peer-feedback</li> </ul>					
Learning outcomes/ key competencies	<ul style="list-style-type: none"> <li>Strengthening the ability to conceptually frame and discuss one's research interests</li> <li>Increased awareness of one's own perspective and position in the research process</li> <li>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</li> <li>Competence in the planning and organization of a scientific project</li> <li>Language and Communication skills (i.e. scientific argumentation, presentation of research process)</li> <li>Ability to deal with and incorporate peer-feedback</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
	Colloquium	Master Colloquium	EN	10	1	60 h
<b>3. Prerequisites for course participation</b>						
required	The participation in the Colloquium is recommend at the time when the student is actually working on the Master's Thesis.					
recommended						
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	4	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Exposé					2
Examination and exams' Language	non-graded					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term <input type="checkbox"/>	Winter and		A total of 60 h, comprising 20 h of on-site learning/courses + 40 h of individual study		<b>1 Semester</b>	
Summer term <input type="checkbox"/>	Summer term	<input checked="" type="checkbox"/>				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator	Prof. Dr. J. Budds					

Department	Geography, Uni Bonn
<b>Others</b>	
(i.e. Required readings)	

<b>Module: Masters Thesis</b> Module Number: 8000						<b>8000</b>
<b>1. Contents and Learning outcomes</b>						
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	<ul style="list-style-type: none"> <li>Solve a well-defined, significant research problem under supervision, but in principle independently</li> <li>Knowledge about theoretical, methodological and thematic context of the chosen research topic</li> <li>Ability to argue convincingly according to scientific principles</li> <li>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</li> <li>Time-management</li> </ul>					
<b>2. Course organisation</b>						
	Format	Theme	Language	Group Size	Hours per week	Workload [h]
		Independent preparation and writing of Master's Thesis with individual supervision	EN		6 months	900 h
<b>3. Prerequisites for course participation</b>						
required						
recommended	Min. of 60 CP must have been achieved within the Master Programme.					
<b>4. Classification</b>						
	Programme			Modus	Semester	
	MSc Geography of Environmental Risks and Human Security			Compulsory	4	
<b>5. Prerequisites for the accreditation of ECTS Credits (CPs)</b>					<b>6. ECTS (CP)</b>	
Course assignments	Presentation of thesis proposal, active participation in academic discussion and peer feedback				30	
Examination and exams' Language	Master Thesis, in English					
<b>7. Term</b>			<b>8. Workload</b>		<b>9. Duration</b>	
Winter term	<input type="checkbox"/>	Winter and	900 h of individual study		6 months	
Summer term	<input type="checkbox"/>	Summer term				
<b>Organisation of Module</b>						
Lecturer(s)	Lecturers from the Department of Geography (University of Bonn) & UNU-EHS					
Module coordinator	Prof. Dr. J. Budds					
Department	Geography, Uni Bonn					
<b>Others</b>						
(i.e. Required readings)						