

**Amendments to the examination regulations of the Master course of study
Environmental Science**

Article 1

The examination regulations of Trier University of the Master course of study Environmental Sciences are amended as follows:

The wording "Environmental Assessment and Management" is replaced by the wording "Environmental Sciences" in the entire regulations respectively.

The Annex reads as follows:

Annex
MSc Environmental Sciences (ES)
ES 1 Environmental Monitoring and Pollution Assessment
ES 2 Environmental Remote Sensing and Modelling
ES 3 Environmental Conservation and Restoration Management

A. Subject-specific admission requirements

- a) Bachelor degree Environmental Geosciences of Trier University or another comparable university degree
- b) Bachelor degree with a final grade of at least 3.0. If the final grade is indicated in relative marks, a level of at least "C" is required for admission.
- c) Evidence of English language skills

B.1 Modular study program ES 1 “Environmental Monitoring and Pollution Assessment“

1. Volume of study (in semester hours per week / SWH) for focus ES 1:

During the studies the participation in compulsory and optional courses is obligatory to the following total temporal extent (in SWH) (§ 6 section 1):

Total temporal extent: 71 to 80.5 SWH

2. Modular plan ES 1

The study program is divided into compulsory and optional modules specified below:

2.1. Compulsory modules ES 1 Environmental Monitoring and Pollution Assessment

Compulsory modules for all foci ES

Module No.	Designation ES 1	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES001 (compulsory)	Environmental Systems Analysis	1	4	5	written examination (120 minutes)
MA6ES002 (compulsory)	Multivariate Statistics	1	4	5	written examination (120 minutes)
MA6ES003 (compulsory)	Research Project	1	4	10	term paper <u>and</u> presentation
MA6ES004 (compulsory)	Final module Master Thesis Colloquium	1 1		24 6	Master thesis (4/5 of the module mark) oral examination (1/5 of the module mark)

Compulsory modules ES 1

Focus on Environmental Monitoring and Pollution Assessment (ES 1)

Module No.	Designation ES 1	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES010	Environmental Chemistry and Risk Assessment	1	6	5	written examination (90 minutes)
MA6ES011	Environmental Analytical Chemistry	1	6	5	oral examination (30 minutes)
MA6ES012	Aquatic Pollution Assessment	1	4	5	term paper
MA6ES013	Regional Biomonitoring Project	1	4	5	term paper
MA6ES014	Ecotoxicological Effects of Environmental Pollutants	1	4	5	presentation (15 minutes)

2.2. Optional modules of the 1st semester (4 out of 5)

Module No.	Designation ES 1	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES005	Environmental Monitoring Strategies	1	4	5	oral examination (20 minutes)
MA6ES006	Fundamentals of Environmental Remote Sensing	1	4	5	Portfolio examination
MA6ES007	Atmospheric Boundary Layer	1	4	5	written examination (120 minutes)
MA6ES009	Advanced Aspects of Environmental Soil Sciences	1	4	5	oral examination (30 minutes)
	Introduction to Geoinformatics	1	3	5	written examination (60 Min.)

Optional Modules - Optional Modules ES 1

Module No.	Designation ES 1	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES028	Soil Biology and Soil Functioning	1	4	5	term paper
MA6ES016	Advanced Remote Sensing Data Processing and Analysis	1	4	5	term paper
MA6ES029	Interdisciplinary Excursion or Field Project	1	7.5	5	term paper
MA6ES030	Physical Monitoring of Litho- and Hydrosphere	1	5	5	written examination (90 minutes)
MA6ES025	Polluted Site Remediation	1	4	5	written examination (90 minutes)
MA6ES022	Landsurface Atmosphere Interactions	1	6	5	presentation (30 minutes)
MA6ES031	Vegetation Ecology	1	4	5	term paper
MA6ES032	Sustainable Chemistry	1	5	5	term paper
MA6ES033	Geostatistik (Geostatistics)	1	4	5	written examination (90 minutes)
MA6ES034	Fluviatile transport processes	1	4	5	oral examination (20 minutes)
MA6ES027	Soil Use and Sustainable Management	1	4	5	written examination (90 minutes)
MA6ES035	Paleoclimate and Paleoenvironmental Changes	1	5	5	written examination (90 minutes)
MA6ES036	Global Climate Change and Energy Resources	1	4	5	written examination (60 minutes)
MA6ES018	Ecosystem Remote Sensing and Modelling Concepts (Part a & b)	1	4	5	term paper
MA6ES021	Monitoring and Remote Sensing in Meteorology	1	4	5	term paper
	Socio Hydrology	1	4	5	term paper
	Global Climate Change and Energy Resources	1	4	5	term paper
MA6ES008	Geological Hazards, Risk Assessment and Management	1	4	5	Klausur 90 Min.

B.2 Modular study program ES 2 „Environmental Remote Sensing and Modelling”

1. Volume of study (in SWH) for focus ES 2:

During the studies the participation in compulsory and optional courses is obligatory to the following total temporal extent (in SWH) (§ 6 section 1):

Total temporal extent: 62.5 to 77.5 SWH respectively 66.5 to 74.5 SWH

2. Modular plan ES 2

The study program is divided into compulsory and optional modules specified below:

2.1 Compulsory modules ES 2 (Environmental Remote Sensing and Modelling)

Compulsory modules for all foci ES 2

Module No.	Designation ES 2	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES001 (compulsory)	Environmental Systems Analysis	1	4	5	written examination (120 minutes)
MA6ES002 (compulsory)	Multivariate Statistics	1	4	5	written examination (120 minutes)
MA6ES003 (compulsory)	Research Project	1	4	10	term paper <u>and</u> presentation
MA6ES004 (compulsory)	Final module Master Thesis Colloquium	1 1		24 6	Master thesis (4/5 of the module mark) oral examination (1/5 of the module mark)

Compulsory modules ES 2

Focus on Environmental Remote Sensing and Modelling A: Environmental Remote Sensing

Module No.	Designation ES 2	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES015	Geospatial Data Analysis	1	7	10	written examination (90 minutes)
MA6ES016	Advanced Remote Sensing Data Processing and Analysis	1	4	5	term paper
MA6ES017	Remote Sensing of Global Change Processes	1	4	5	term paper
MA6ES018	Ecosystem Remote Sensing and Modelling Concepts	2	7	10	term paper

Focus on Environmental Remote Sensing and Modelling B: Environmental Meteorology

Module No.	Designation ES 2	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES019	Time Series Analysis	1	4	5	term paper
MA6ES020	Numerical Modelling in Meteorology	2	8	10	oral examination (30 minutes)
MA6ES021	Monitoring and Remote Sensing in Meteorology	1	4	5	term paper
MA6ES022	Landsurface Atmosphere Interactions	1	6	5	presentation (30 minutes)
MA6ES023	SVAT Models and Integration of Remote Sensing Data	1	4	5	oral examination (20 minutes)

2.2. Optional modules of the 1st semester (4 out of 5)

Module No.	Designation ES 2	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES005	Environmental Monitoring Strategies	1	4	5	oral examination (20 minutes)
MA6ES006	Fundamentals of Environmental Remote Sensing	1	4	5	Portfolio examination
MA6ES007	Atmospheric Boundary Layer	1	4	5	written examination (120 minutes)
MA6ES009	Advanced Aspects of Environmental Soil Sciences	1	4	5	oral examination (30 minutes)
	Introduction to Geoinformatics	1	3	5	written examination (60 Min.)

Optional Modules - Optional Modules ES 2

Module No.	Designation ES 2	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES031	Vegetation Ecology	1	4	5	term paper
MA6ES026	Environmental Management and Resource Economics	2	4	10	according to the relevant examination regulations
MA6ES029	Interdisciplinary Excursion or Field Project	1	7.5	5	term paper
MA6ES024	Nature Conservation, Restoration and Protection	1	4	5	term paper
MA6ES037	Numerik für Geowissenschaftler (Numerics for Geoscientists)	1	3	5	written examination (60 minutes)
MA6ES036	Global Climate Change and Energy Resources	1	4	5	written examination (60 minutes)
MA6ES038	Populationsökologie (Population Ecology)	1	4	5	written examination (60 minutes)
MA6ES033	Geostatistik (Geostatistics)	1	4	5	Portfolio
MA6ES035	Paleoclimate and Paleoenvironmental Changes	1	5	5	written examination (90 minutes)
	Socio Hydrology	1	4	5	term paper
	Global Climate Change and Energy Resources	1	4	5	term paper
MA6ES008	Geological Hazards, Risk Assessment and Management	1	4	5	written examination (90 minutes)

B.3 Modular study program ES 3 “Environmental Conservation and Restoration Management”

1. Volume of study (in SWH) for focus ES 3:

During the studies the participation in compulsory and optional courses is obligatory to the following total temporal extent (in SWH) (§ 6 section 1):

Total temporal extent: 58 to 67.5 SWH

2. Modular plan ES 3

The study program is divided into compulsory and optional modules specified below:

2.1 Compulsory modules ES 3 (Environmental Conservation and Restoration Management) Compulsory modules for all foci ES

Module No.	Designation ES 3	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES001 (compulsory)	Environmental Systems Analysis	1	4	5	written examination (120 minutes)
MA6ES002 (compulsory)	Multivariate Statistics	1	4	5	written examination (120 minutes)
MA6ES003 (compulsory)	Research Project	1	4	10	term paper <u>and</u> presentation
MA6ES004 (compulsory)	Final module Master Thesis Colloquium	1 1		24 6	Master thesis (4/5 of the module mark) oral examination (1/5 of the module mark)

Compulsory modules ES 3

Focus on Environmental Conservation and Restoration Management

Module No.	Designation ES 3	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES024	Nature Conservation, Restoration and Protection	1	4	5	term paper
MA6ES025	Polluted Site Remediation	1	4	5	written examination (90 minutes)
MA6ES026	Environmental Management and Resource Economics	2	4	10	according to the relevant examination regulations
MA6ES027	Soil Use and Sustainable Management	1	4	5	written examination (90 minutes)

2.2. Optional modules of the 1st semester (4 out of 5)

Module No.	Designation ES 3	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES005	Environmental Monitoring Strategies	1	4	5	oral examination (20 minutes)
MA6ES006	Fundamentals of Environmental Remote Sensing	1	4	5	Portfolio examination
MA6ES007	Atmospheric Boundary Layer	1	4	5	written examination (120 minutes)
	Introduction to Geoinformatics	1	3	5	written examination (60 Min.)
MA6ES009	Advanced Aspects of Environmental Soil Sciences	1	4	5	oral examination (30 minutes)

Optional Modules - Optional Modules ES 3

Module No.	Designation ES 3	Duration in semesters	SWH	Credits	Type and duration of the examination or accomplishments relevant for examination
MA6ES031	Vegetation Ecology	1	4	5	term paper
MA6ES032	Sustainable Chemistry	1	5	5	term paper
MA6ES012	Aquatic Pollution Assessment	1	4	5	term paper
MA6ES028	Soil Biology and Soil Functioning	1	4	5	term paper
MA6ES016	Advanced Remote Sensing Data Processing and Analysis	1	4	5	term paper
MA6ES018	Ecosystem Remote Sensing and Modeling Concepts	2	7	10	term paper
MA6ES011	Environmental Analytical Chemistry	1	6	5	oral examination (30 minutes)
MA6ES010	Environmental Chemistry and Risk Assessment	1	6	5	written examination (90 minutes)
MA6ES030	Physical Monitoring of Litho- and Hydrosphere	1	5	5	written examination (90 minutes)
MA6ES029	Interdisciplinary Excursion or Field Project	1	7.5	5	term paper
MA6ES033	Geostatistik (Geostatistics)	1	4	5	written examination (90 minutes)
MA6ES014	Ecotoxicological Effects of Environmental Pollutants	1	4	5	presentation (15 minutes)
MA6ES036	Global Climate Change and Energy Resources	1	4	5	written examination (60 minutes)
MA6ES039	European Environmental Law	1	3	5	written examination (120 minutes)
	Socio Hydrology	1	4	5	term paper
	Global Climate Change and Energy Resources	1	4	5	term paper
MA6ES008	Geological Hazards, Risk Assessment and Management	1	4	5	written examination (90 minutes)
MA6ES040	Bodenerosion unter Globalem Wandel (Soil Erosion during Global Change)	1	4	5	term paper

Further details about the modules can be found in the currently valid module handbook of the Master course of study Environmental Sciences.

Article 2

- (1) These regulations modifying the examination regulations of Trier University in the Master course of study Environmental Science come into force the day after publication in the "Verkündungsblatt - Amtliche Bekanntmachungen " (gazette of Trier University).

Trier, December 2015

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