

**Please note:** The following is a carefully drafted translation of the German “Third Modification of the Examination Regulations for the degree program Master of Science” (Dritte Satzung der Änderung der Prüfungsordnung für den Master of Science (M.Sc.) Please be aware, however, that only the officially published version in German language is legally binding.

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## **Third Modification of the Examination Regulations for the Degree Program Master of Science (M.Sc.)**

On the basis of § 34 paragraph 1 clause 3 of the State Higher Education Act (LHG) from January 1<sup>st</sup>, 2005 (GBl. p. 1), the senate resolved in its session on March 22<sup>nd</sup>, 2006 to enact the following modification of the examination regulations for the degree program Master of Science (M.Sc.) from August 18<sup>th</sup>, 2005 (Amtliche Bekanntmachungen Jahrgang 36, Nr. 46, Seiten 269-293 vom 19. August 2005), last modified on March 2<sup>nd</sup>, 2006 (Amtliche Bekanntmachungen Jahrgang 37, Nr. 9, Seiten 17-32 vom 3. März 2006).

The regulations were approved by the rector on March 27<sup>th</sup>, 2006.

### **Article 1**

#### **1. Appendix A is modified as follows:**

Subject Catalog in Accordance with § 8 Paragraph 1 of the Examination Regulations for the Degree Program Master of Science (M.Sc.)

1. Angewandte Informatik
2. Environmental Governance
3. Forest Ecology and Management
4. Informatik

2. In **appendix B** the subject-specific parts for the M.Sc. degree programs **Environmental Governance** and **Forest Ecology and Management** are modified.

### **Environmental Governance**

#### **§ 1 Profile of the Degree Program**

The master program Environmental Governance is concentrated on research and is not consecutive.

#### **§ 2 Prerequisites for Admission**

To be admitted to the master program Environmental Governance, it is necessary to have completed at least a 3 year initial course of study in an appropriate field at a German or foreign institution of higher education with at least above average grades. As a rule, appropriate fields are political science, sociology, law and economics, ethnology, international (developmental) cooperation, agricultural and forest sciences, geography, environmental protection and nature conservation, town and country and environmental planning, environmental management, and the management of natural resources. The equivalency of other academic degrees must be determined by the admissions commission in conjunction with departmental representatives. Details are described in the currently valid version of the admissions regulations for the degree program.

#### **§ 3 English Master Program**

The courses of the program are held in English. As a rule, all examinations are also held in English.

#### **§ 4 Internship in Accordance with § 6 of the Examination Regulations**

Students of the master program Environmental Governance are required to complete an internship. It should be completed between the courses of the second and third study semesters and must have a duration of at least seven weeks. Students earn 10 ECTS credits for completing the internship. The student must submit valid evidence to have the internship recognized. Details as to the nature and extent of the internship as well as its recognition on the basis of comparable activities are described in the currently valid version of the internship regulations.

## **§ 5 Subject Examination Committee**

(1) All duties and tasks described in § 9 of the examination regulations are performed by the subject examination committee at the Faculty of Forest and Environmental Sciences, which is responsible for all master degree programs offered at the faculty. Duties of the subject examination committee may be allocated to the chairperson.

(2) As a rule, the academic dean of the faculty is also the chairperson of the subject examination committee for the duration of his or her period of office. If further academic deans are appointed, one of them is generally appointed as the chairperson and the other as the assistant chairperson.

## **§ 6 Master Examination in Accordance with § 12 of the Examination Regulations**

The master examination consists of the examinations during the course of study and the master thesis. Further examination credits are not required.

## **§ 7 Related Fields in Accordance with § 15 Paragraph 2 of the Examination Regulations**

The master program Environmental Science does not identify any related fields under § 15 paragraph 2 of the examination regulations.

## **§ 8 Duration of Oral Examinations in Accordance with § 16 Paragraph 2 of the Examination Regulations**

Oral examinations are held as group or individual examinations. They have a duration of at least 15 minutes per candidate, no more than 20 minutes for partial module examinations, and no more than 40 minutes for final module examinations.

## **§ 9 Duration of Written Examinations in Accordance with § 17 Paragraph 3 of the Examination Regulations**

If a module includes written examination credits in the form of written examinations, they generally have a duration of at least 60 minutes and no more than 90 minutes for a module worth 5 ECTS credits and at least 120 minutes and no more than 180 minutes for a module worth 10 ECTS credits.

## **§ 10 Admission to the Master Thesis**

To be admitted to the master thesis, students must be enrolled at least in the 3<sup>rd</sup> study semester and have earned at least 70 ECTS credits.

## **§ 11 The Master Thesis in Accordance with § 20 of the Examination Regulations**

(1) The master thesis must be completed within a period of 6 months and is worth 30 ECTS credits. As a rule, it must be written in English. The subject examination committee decides in individual cases whether exceptions to this rule are permissible.

(2) The master thesis may also be completed in the form of a group thesis if the individual contributions of each candidate are clearly identifiable and gradable due to the fact that they are clearly separated by sections, page numbers, or other objective criteria. Group theses must also fulfill the requirements described in § 20 paragraph 1 of the examination regulations.

(3) The candidate must submit three bound copies of the master thesis to the examination committee. Candidates may request permission to submit the thesis in another form. The decision is made by the subject examination committee in conjunction with the supervisor of the master thesis.

## § 12 Composition of the Final Grade in Accordance with § 21 Paragraph 2 of the Examination Regulations

The final grade for the master course of study is composed of the weighted average (weighted arithmetic mean) of the student's grades on the examinations of each module and his or her grade for the master thesis. The weights for this final grade are the amount of ECTS credits earned for each module as described in § 14 of this appendix and the amount of ECTS credits earned for the master thesis. The student receives an ECTS grade, which is a percentile of all final grades given within the last five years.

## § 13 Retaking Examinations during the Course of Study in Accordance with § 24 of the Examination Regulations

(1) Final module examinations and partial module examinations for modules with a total of 25 ECTS credits which are marked with a grade of „unsatisfactory (5.0)“ or which are considered failed may be retaken twice. A third retake is not permissible.

(2) To retake an examination for the second time, it is generally necessary to retake the entire course. The second retake should be held at the same time as the first taking of this examination in one of the following semesters.

(3) The master thesis may not be rewritten twice.

## § 14 Curriculum

(1) The master program in the field „Environmental Governance“ includes the following required modules and elective modules, all of which are included in the composition of the final grade. The courses in these modules are generally designed as block courses. They may be organized as lecture courses and/or seminars and/or exercise courses and/or practical courses and/or excursions. The examinations for these modules may take the form of oral examinations and/or written examinations. The type and amount of courses included in a module is made known before the beginning of the course, as well as the type and amount of examination and/or study credits it is worth.

Title of Module	ECTS Credits	Required (R) Elective (E)	Recommended Study Semester
Sustainability and Governance	5	R	1
Global Environmental Changes	5	R	1
Global Societal Changes	5	R	1
Managing Human-Environment Interactions	5	R	1
Regional Studies (Integrated Case Study I)	5		1
Economics, Institutions and Environment	5	R	2
Environmental Policy Analysis	5	R	2
Sociology and Psychology of Environmental Knowledge	5	R	2
Ecosystem Management	5	R	2
Student-Organized Event	5	R	3
Research Skills	5	R	3
Integrated System Design (Integrated Case Study II)	5	R	3
Elective modules under paragraphs 2 and 3	add. 20	E	1 to 3

## Elective Course Offerings

(2) The faculty compiles a catalog of elective modules. As a rule, students must take four of these modules with a total of 20 ECTS credits during the course of study. These elective modules should be completed in the first to third study semester. The grades for these modules with a total of 20 ECTS credits are included in the composition of the final grade for the master.

(3) Students may choose between the following elective modules

### - Environmental Governance

Title of Module	ECTS Credits	Elective (E)	Recommended Study Semester
Knowledge Management and Organizational Learning	5	E	1
Selected Topics in Environmental Governance	5	E	2/3
Environmental Law	5	E	2/3
Environmental Ethics	5	E	2/3
Technology Assessment and Sustainable Development	5	E	2/3
Environmental Conflict Management	5	E	2/3
Corporate Governance	5	E	2/3
Non-Governmental Organizations and Environmental Governance	5	E	2/3

### - Forest Ecology and Management

Title of Module	ECTS Credits	Elective (E)	Recommended Study Semester
Forests and Water	5	E	1
Agro Forestry and Farm Forestry	5	E	1
Forests and Climate Change	5	E	1
Tree Structure and Function	5	E	1
Statistics and GIS	5	E	1
Analysis and Management of Tree and Stand Growth	5	E	2
Forest-Atmosphere Interactions	5	E	2
Ecological Modelling	5	E	2
Soil Ecology and Management	5	E	2
Population and Community Ecology	5	E	2
Methods in Ecosystem Analysis	5	E	2
Selected Topics in Forest Ecology and Management	5	E	2/3
Non Timber Forest Products and Bioresources	5	E	3
Molecular Biology and Biotechnology	5	E	3
Conservation Biology	5	E	3
Forest and Resource Inventory	5	E	3
Plantation Forestry	5	E	3

Natural Hazards and Risk Management	5	E	3
Eco-Informatics and Environmental Monitoring	5	E	3
Forest Resources and Wood Production	5	E	

## **Forest Ecology and Management**

### **§ 1 Profile of the Degree Program**

The master program Forest Ecology and Management is concentrated on research and is not consecutive.

### **§ 2 Prerequisites for Admission**

To be admitted to the master program Forest Ecology and Management, it is necessary to have completed at least a 3 year initial course of study in an appropriate field at a German or foreign institution of higher education with at least above average grades. As a rule, appropriate fields are agricultural and forest sciences, geography, environmental protection and nature conservation, biology, ecology, and the management of natural resources. The equivalency of other academic degrees must be determined by the admissions commission in conjunction with departmental representatives. Details are described in the currently valid version of the admissions regulations for the degree program.

### **§ 3 English Master Program**

The courses of the program are held in English. As a rule, all examinations are also held in English.

### **§ 4 Internship**

Students of the master program Forest Ecology and Management are required to complete an internship. It should be completed between the courses of the second and third study semesters and must have a duration of at least seven weeks. Students earn 10 ECTS credits for completing the internship. The student must submit valid evidence to have the internship recognized. Details as to the nature and extent of the internship as well as its recognition on the basis of comparable activities are described in the currently valid version of the internship regulations.

### **§ 5 Subject Examination Committee**

(1) All duties and tasks described in § 9 of the examination regulations are performed by the subject examination committee at the Faculty of Forest and Environmental Sciences, which is responsible for all master degree programs offered at the faculty. Duties of the subject examination committee may be allocated to the chairperson.

(2) As a rule, the academic dean of the faculty is also the chairperson of the subject examination committee for the duration of his or her period of office. If further academic deans are appointed, one of them is generally appointed as the chairperson and the other as the assistant chairperson.

### **§ 6 Master Examination in Accordance with § 12 of the Examination Regulations**

The master examination consists of the examinations during the course of study and the master thesis. Further examination credits are not required.

### **§ 7 Related Fields in Accordance with § 15 Paragraph 2 of the Examination Regulations**

The master program Environmental Science does not identify any related fields under § 15 paragraph 2 of the examination regulations.

### **§ 8 Duration of Oral Examinations in Accordance with § 16 Paragraph 2 of the Examination Regulations**

Oral examinations are held as group or individual examinations. They have a duration of at least 15 minutes per candidate, no more than 20 minutes for partial module examinations, and no more than 40 minutes for final module examinations.

### **§ 9 Duration of Written Examinations in Accordance with § 17 Paragraph 3 of the Examination Regulations**

If a module includes written examination credits in the form of written examinations, they generally have a duration of at least 60 minutes and no more than 90 minutes for a module worth 5 ECTS credits and at least 120 minutes and no more than 180 minutes for a module worth 10 ECTS credits.

### **§ 10 Admission to the Master Thesis**

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### **§ 11 The Master Thesis in Accordance with § 20 of the Examination Regulations**

(1) The master thesis must be completed within a period of 6 months and is worth 30 ECTS credits. As a rule, it must be written in English. The subject examination committee decides in individual cases whether exceptions to this rule are permissible.

(2) The master thesis may also be completed in the form of a group thesis if the individual contributions of each candidate are clearly identifiable and gradable due to the fact that they are clearly separated by sections, page numbers, or other objective criteria. Group theses must also fulfill the requirements described in § 20 paragraph 1 of the examination regulations.

(3) The candidate must submit three bound copies of the master thesis to the examination committee. Candidates may request permission to submit the thesis in another form. The decision is made by the subject examination committee in conjunction with the supervisor of the master thesis.

### **§ 12 Composition of the Final Grade in Accordance with § 21 Paragraph 2 of the Examination Regulations**

The final grade for the master course of study is composed of the weighted average (weighted arithmetic mean) of the student's grades on the examinations of each module and his or her grade for the master thesis. The weights for this final grade are the amount of ECTS credits earned for each module as described in § 14 of this appendix and the amount of ECTS credits earned for the master thesis. The student receives an ECTS grade, which is a percentile of all final grades given within the last five years.

### § 13 Retaking Examinations during the Course of Study in Accordance with § 24 of the Examination Regulations

(1) Final module examinations and partial module examinations for modules with a total of 25 ECTS credits which are marked with a grade of „unsatisfactory (5.0)“ or which are considered failed may be retaken twice. A third retake is not permissible.

(2) To retake an examination for the second time, it is generally necessary to retake the entire course. The second retake should be held at the same time as the first taking of this examination in one of the following semesters.

(3) The master thesis may not be rewritten twice.

### § 14 Curriculum

(1) The master program in the field „Forest Ecology and Management “ includes the required modules and elective modules listed in the following tables, all of which are included in the composition of the final grade. The courses in these modules are generally designed as block courses. They may be organized as lecture courses an/or seminars and/or exercise courses and/or practical courses and/or excursions. The examinations for these modules may take the form of oral examinations and/or written examinations. The type and amount of courses included in a module is made known before the beginning of the course, as well as the type and amount of examination and/or study credits it is worth.

Title of Module	ECTS Credits	Required (R) Elective (E)	Recommended Study Semester
Global Environmental Changes	5	R	1
Managing Human-Environment Interactions	5	R	1
Tree Structure and Function	5	R	1
Statistics and GIS	5	R	1
Soil Ecology and Management	5	R	2
Ecosystem Management	5	R	2
Population and Community Ecology	5	R	2
Methods in Ecosystem Analysis	5	R	“
Natural Hazards and Risk Management	5	R	2
Eco-Informatics and Environmental Monitoring	5	R	3
Forest Resources and Wood Production	5	R	3
Elective modules under paragraphs 2 to 4	add. 20	E	1 to 3

#### Elective Course Offerings

(2) The faculty compiles a catalog of elective modules. As a rule, students must take five of these modules with a total of 25 ECTS credits during the course of study. These elective modules should be completed in the first to third study semester. The grades for these modules with a total of 25 ECTS credits are included in the composition of the final grade for the master.

(3) Students may choose between the following elective modules

- Environmental Governance

Title of Module	ECTS Credits	Elective (E)	Recommended Study Semester
Knowledge Management and Organizational Learning	5	E	1
Sustainability and Governance	5	E	1/3
Global Societal Changes	5	E	1/3
Regional Studies (Integrated Case Study I)	5	E	1/3
Economics, Institutions and Environment	5	E	2
Environmental Policy Analysis	5	E	2
Sociology and Psychology of Environmental Knowledge	5	E	2
Environmental Law	5	E	2/3
Environmental Ethics	5	E	2/3
Technology Assessment and Sustainable Development	5	E	2/3
Environmental Conflict Management	5	E	2/3
Corporate Governance	5	E	2/3
Non-Governmental Organizations and Environmental Governance	5	E	2/3
Selected Topics in Environmental Governance	5	E	2/3
Student-Organized Event	5	E	3
Research Skills	5	E	3
Integrated System Design (Integrated Case Study II)	5	E	3

- Forest Ecology and Management

Title of Module	ECTS Credits	Elective (E)	Recommended Study Semester
Forests and Water	5	E	1
Agro Forestry and Farm Forestry	5	E	1
Forest and Climate Change		E	1
Analysis and Management of Tree and Stand Growth	5	E	2
Forest-Atmosphere Interactions	5	E	2
Ecological Modelling	5	E	2
Selected Topics in Forest Ecology and Management	5	E	2/3
Non Timber Forest Products and Bioresources	5	E	3
Molecular Biology and Biotechnology	5	E	3
Conservation Biology	5	E	3
Forest and Resource Inventory	5	E	3
Plantation Forestry	5	E	3



**Article 2**  
**Coming into effect**

This modification of the examination regulations comes into effect on October 1<sup>st</sup> 2006

Freiburg, March 31<sup>st</sup>, 2006

Prof. Dr. Karl-Reinhard Volz  
Vice-Rector