<u>Notice:</u> This translation is provided solely as a courtesy to international students and applicants. Reliance in law may only be placed upon the official German version of these Regulations.

<u>Faculty of Forestry Sciences and Forest Ecology:</u>

On 04.12.2012, following the resolution passed by the Faculty Council of the Faculty of Forest Sciences and Forest Ecology dated 23.10.2012, the Presidential Board of Georg-August-Universität has approved the first amendment to the Study and Examination Regulations for the consecutive master programme in Forest Sciences and Forest Ecology in the version contained in the announcement dated 23.09.2010 (Official Announcements no. 18/2010 S. 1200) (§ 44 (1) sentence 2 NHG in the version contained in the announcement dated 26.02.2007 (Nds. GVBl. S. 69), amended by Article 1 of the Act dated 20.06.2012 (Nds. GVBl. S. 186); § 44 section 1 sentence 3, § 37 section 1 sentence 3 no. 5 b), 44 section 1 sentence 3 NHG).

Study and Examination Regulations for the consecutive Master Programme in Forest Sciences and Forest Ecology at the Georg-August-Universität Göttingen

Table of contents

§ 1 Scope, purpose of the academic programme, academic degree
§ 2 Structure of the academic programme, modules
§ 3 Scope of examinations
§ 4 Registration for and withdrawal from examinations
§ 5 Reassessment guidelines
§ 6 Form of examination components
§ 7 master thesis
§ 8 Examination board members
§ 9 Overall results of the master examination
§ 10 Entry into force

Appendix 1: Module overview
Appendix 2: Exemplary curricula

§ 1 Scope, Purpose of the Programme, Academic Degree

(1) [1]The valid version of the provisions of the "General examination regulations for Bachelor and Master programmes as well as other courses and degrees offered at the University of Göttingen (APO) apply respectively to the consecutive Master programme in Forest Sciences and Forest Ecology at the Georg-August-Universität Göttingen. [2]The current regulations define the supplementary specific provisions for this degree programme.

(2) [1]The academic programme with the degree "Master of Science" (abbreviated M.Sc.) provides a preparation for work as an academic qualified in forest and wood science within administrations, companies, research institutions and international organisations. [2]The master programme is intended to provide students advanced scientific knowledge, the ability to review, to produce independent, specialised and interdisciplinary scientific work and to apply scientific insight in the fields of forestry and forest use, conservation and forest ecology, wood biology and wood technology, ecosystem analysis and modelling or tropical and international forestry.

§ 2 Structure of the Academic Programme, Modules

(1) [1]The academic programme commences in the winter or the summer semester. [2]The degree programme cannot be studied part-time.

(2) The academic programme comprises 120 credits (ECTS credits; abbreviated as: C) that are awarded as follows:
a) 60 C for the specialised studies, resp. 66 C with the focus on forestry and forest use, also wood biology and wood technology,
b) 30 C for the area of professionalisation (optional module), resp. 24 C with the focus on forestry and forest use, also wood biology and wood technology, of which 6 to 12 C for the key competencies and
c) 30 C for the master thesis.

(3) [1]Number, type and scope of the modules to be successfully completed are governed by the module overview (appendix 1). [2]For recommendation on the academic programme structure, please refer to the enclosed sample curricula (appendix 2). [3]Module catalogue and module handbook are published separately in a common electronic version (digital module directory); they are part of these regulations, as far as the modules are itemised in the module overview (appendix 1).

(4) It is recommended to complete parts of the academic programme abroad, including field research for the master thesis.

(5) [1]There are no compulsory modules applicable to all study focuses. [2]The examination components must be completed both in optional required modules and optional modules. [3]The optional required modules constitute the five study focuses listed in the module overview (appendix 1), of which one must be selected. [4]Within one study focus, the optional required modules listed in the module overview (appendix 1) must be completed. [5]The optional modules facilitate individualised structuring of the academic programme. [6]In the optional area, modules (alternative modules) other than those mentioned can be completed in accordance with the following provisions. [7]Prerequisite for the consideration of an alternative module is:

a) A written application to be handed in by the student to the Dean of Studies of Forest Sciences and Forest Ecology before choosing the alternative module;

b) Approval by the Dean of Studies or Course Module offering the alternative module.

[8]The decision on approving the application is made by the Dean of Studies of Forest Sciences and Forest Ecology. [9]The Dean will obtain the opinion of the degree programme tutors on the usefulness of the module replacement before reaching the decision. [10]The application can be rejected without stating any reasons; a legal right of the applicant to object the decision does not exist.

(6) The conversion of a module, which is completed successfully in the form of a voluntary additional examination, to a normally credited module and vice versa, is possible only in the optional area.

(7) Furthermore, the module overview describes the module package for forestry sciences, which can also be completed as part of a different, suitable master degree programme as module package with a scope of 36 credits (36-credit module package).

§ 3 Examination Guidelines

The duration of the examinations depends on the courses upon which they are based (calculated according to the number of credits), whereby the following values should be adhered to:

For < 6 credits	Written examination	¾ - 1½ h
	Oral examination	15 min.
	Project work, paper	Processing time: 2 weeks, scope: approx. 10 pages

	Oral presentation with written outline and written report	approx. 10 min. (approx. 10 pages)
For 6-9 credits	Written examination	1½ - 2 h
	Oral examination	15 - 30 min.
	Project work, paper	Time: 2 - 4 weeks, length: 10 - 20 pages
	Oral presentation with written outline and written report	10 - 20 min. (10 - 20 pages)
For > 9 credits	Written examination	2 - 3 h
	Oral examination	15 - 45 min.
	Project work, paper	Time: 3 - 6 weeks, length: 20 - 30 pages
	Oral presentation with written outline and written report	20 - 30 min. (20 - 30 pages)

The actual duration of an oral examination may be shorter or longer, but not unreasonably so.

§ 4 Examination Registration and Withdrawal Deadlines

(1) [1]In each semester, the Examination Board defines an examination period that normally lasts for six weeks and follows the period of lectures. [2]Examination dates can be fixed outside of the examination period under sentence 1; this is decided by the Dean of Studies upon application by the examinee.

(2) The dates of the module tests are specified by the Examination Office after hearing the examinee and should be announced in the electronic examination management system at the latest six weeks before the module test.

(3) [1]Written or electronic registration for a module examination must be completed no later than seven days before the examination date. [2]Students may withdraw from an examination without stating reasons no later than seven days beforehand; in the event that it is a written examination, students may withdraw up to one day beforehand.

§ 5 Reassessment Guidelines

(1) [1]A passed module test that was completed at the latest by the semester specified in the curriculum (appendix 2) may be repeated once with a view to improving the grade.

[2]Reassessment does not lead to any devaluation of the grade. [3]Reassessment for improving the grade is possible only on the upcoming examination date of the corresponding module.

(2) [1]Failed module examinations, or such as have been deemed not passed, in optional required modules within the master degree programme Forestry Sciences and Forest Ecology must be repeated. [2]Failed optional modules can be retaken twice.

(3) Students will receive the same number of minus points for a failed or module examination or part thereof within an optional required subject as they could have gained in ECTS credits for passing the corresponding module or part thereof.

(4) Reassessment is not permitted as soon as the event covered by §9 section 1 applies.

§ 6 Form of the Examination Components

(1) [1]A module examination may consist of up to two examination parts. [2]One module examination part cannot be completed in several stages.

(2) [1]In the project work, the examinee is required to demonstrate an ability to solve problem-based questions from within the entire range of the selected study focus. [2]Questions taken from at least two subjects relating to the project, combining a common main topic, must be dealt with in the project work.

§ 7 Master thesis

With the written master thesis, the candidate should prove that he or she is in a position to process a problem using the standard methods of the subject in the specified timeframe, develop an independent, scientifically established judgement, arrive at scientifically underpinned statements and illustrate the results in a linguistically as well as formally appropriate manner. [2] As a prerequisite for the permission to do the master thesis, compulsory modules, optional required modules or optional modules of the degree programme with a rating of at least 30 C must be successfully completed.

(2) [1]The preliminary topic of the master thesis, which can be written in German or in English, must be agreed with the proposed supervisor and must be submitted to the responsible Examination Board with confirmation from the proposed second supervisor. [2]Should a candidate be unable to find a supervisor, the responsible Examination Board will appoint a supervisor and a topic. [3]The candidate's view should be considered in choosing the topic. [4]The right to suggest the topic does not entitle any legal right. [5]The approval of the topic for

the master thesis is dealt with by the Examination Office. [6]Time of approval should be recorded.

(3) [1] The master thesis should be completed within a period of 6 months. [2]Upon application of the candidate, the Examination Board can extend the deadline for submitting the thesis by a maximum of 3 months, subject to agreement with the supervisor and existence of an important reason that cannot be attributed to the candidate. [3]In the event that the master thesis is not submitted on time, it will be marked with the grade "Not sufficient" (5.0).

(4) [1]The topic can be returned only once and only within the first 2 months of the time allotted for completing the thesis. [2]A new topic should be promptly agreed, at the latest within 4 weeks. [3]In the event that a master thesis is repeated, the topic may be returned only if the examinee has not resorted to this option in the first submission of the master thesis.

(5) [1]The master thesis must be submitted on time to the Examination Office in three identical copies with glued binding. [2]The time of submission should be recorded. [3]Upon submission, the candidate should declare in writing that he or she has independently compiled the work or - in case of group work - the correspondingly marked proportion of the work and has not used any sources and tools other than those specified. [4]Master theses in the German language must contain an English translation of the title and a one-page abstract in the English language; master theses in the English language must contain a German translation of the title and a one-page summary in the German language.

(6) [1]The Examination Office forwards the master thesis to the examiners. [2]Each reviewer assigns a grade. [3]The duration of the assessment procedure should not exceed 4 weeks.

(7) 30 C are awarded for successful completion of the master thesis.

§ 8 Examination Board

[1]The Examination Board consists of seven members, each of whom holds a vote; four members come from the professoral group, one member from the faculty group and two members from the group of students; there is one member from the Examination Office, acting in a consulting capacity. [2]At the same time, a representative is nominated for each member. [3]If a member or a representative steps down prematurely, a substitute member will be nominated for the remaining tenure.

§ 9 Definitive Failing of the Master Examination; Award

(1) Besides the cases mentioned in the APO, the right to take an examination is categorically annulled if the number of the minus points out of the module tests or part module tests exceeds 40.

(2) The title "with honours" is awarded for a grade point average up to 1.3 and noted on the certificate and the degree certificate.

§ 10 Entry into Force

(1) [1]This regulation enters into force the day after its promulgation in the official announcements of Georg-August-Universität Göttingen. [2]At the same time, the examination regulations and the study regulations for the master degree programme "Forest Sciences and Forest Ecology" dated 22.07.2005 are invalidated.

(2) [1]Students who commenced their studies before these examination and study regulations came into force and who have continued their studies without interruption will, upon application, be examined on the basis of the examination regulations in place until now. [2]Irrespective of the regulation as specified under sentence 1, the examination regulations in force until now shall be invalidated. [3]Examinations based on the previously applicable examination regulations shall be carried out for the last time four semesters after the examinations regulations contained herein came into force.

Sample curriculum **A p p e n d i x 1**

A. Master degree programme "Forest Sciences and Forest Ecology"

Modules with a rating of 120 credits must be successfully completed.

I. Study focuses

One of the following focuses must be completed successfully.

Focus 1 "Forest Management and Forest Utilisation"

a. Specialist studies (66 C)

aa. The following 9 modules with a rating of 60 C should be successfully completed:

M.Forst.1111	Forest Business Administration and Management	(6 C / 4 WLH)
M.Forst.1112	Work Sciences and Forest Technology	(6 C / 4 WLH)
M.Forst.1113	Forest and Society	(6 C / 4 WLH)
Specialisation, advanced (6 C, 4 WLH)		
M.Forst.1122	Forest Growth and Forest Planning, Advanced	(6 C / 4 WLH)
M.Forst.1123	Forest Location and Forest Conservation	(6 C / 4 WLH)
M.Forst.1124	Forest Inventory and Data Analysis	(6 C / 4 WLH)
M.Forst.1131	Project: Forest Ecosystem Management	(12 C / 8 WLH)
M.Forst.1132	Forest Company and Research Internship	(6 C)

bb. Additionally, one of the following 4 modules with a rating of 6 credits should be successfully completed.

M.Forst.1161	Markets and Wood Utilisation	(6 C / 4 WLH)
M.Forst.1162	Legal and Political Control	(6 C / 4 WLH)
M.Forst.1163	Proliferation and Cultivation of Forest Trees	(6 C / 4 WLH)
M.Forst.1164	Forest Management	(6 C / 4 WLH)

b. Area of professionalisation (24 C)

The successful completion of optional modules with a total scope of 24 C is obligatory, including key competencies with a scope of 6 to 12 C. The forestry modules listed under number II can be selected as optional modules. Key competencies can be selected from modules listed in the Module Handbook Key Competencies released by the Universität Göttingen; modules that must be completed as optional required modules within the selected focus cannot be selected in this context.

c. Master thesis (30 C)

30 C are awarded for successful completion of the master thesis.

Focus 2 "Forest Conservation"

a. Specialist studies (60 C)

aa. The following 7 modules with a rating of 48 C must be successfully completed:

M.Forst.1211	Ecological and Planning Bases of Forest Conservation	(6 C / 4 WLH)
M.Forst.1212	Laws and Policies in Conservation	(6 C / 4 WLH)
M.Forst.1213	Genetic Resources and Physiology of the Wood Types	(6 C / 4 WLH)
M.Forst.1422	Remote Sensing and GIS	(6 C / 4 WLH)
M.Forst.1222	Remote Sensing and GIS	(6 C / 4 WLH)
M.Forst.1223	Forest Fauna	(6 C / 4 WLH)
M.Forst.1231	Project: Forest Conservation and Special Forest Ecology	(12 C / 2 WLH)

bb. Additionally, 2 of the following 3 modules with a rating of 12 credits must be successfully completed.

M.Forst.1261	Biodiversity	(6 C / 4 WLH)
M.Forst.1262	Forest Function, Forest Conservation and Forest Recovery Planning	(6 C / 4 WLH)
M.Forst.1263	Modern Methods in Ecology	(6 C / 4 WLH)

b. Area of professionalisation (30 C)

The successful completion of optional modules with a total scope of 30 C is obligatory, including key competencies with a scope of 6 to 12 C. The forestry modules listed under number II can be selected as optional modules. Key competencies can be selected from modules listed in the Module Handbook Key Competencies released by the Universität Göttingen; modules that must be completed as optional required modules within the selected focus cannot be selected in this context.

c. Master thesis (30 C)

30 C are awarded for successful completion of the master thesis.

Focus 3 "Wood Biology and Wood Technology"

a. Specialist studies (66 C)

aa. The following 9 modules with a rating of 54 C must be successfully completed:

M.Forst.1311	Physics and Chemistry of Wood	(6 C / 4 WLH)
M.Forst.1312	Wood Biology	(6 C / 4 WLH)
M.Forst.1313	Wood Biotechnology	(6 C / 4 WLH)
M.Forst.1314	Renewable Resources	(6 C / 4 WLH)
M.Forst.1315	Socioeconomics	(6 C / 4 WLH)
M.Forst.1321	Wood Technology	(6 C / 4 WLH)
M.Forst.1322	Wood and Paper Industry	(6 C / 4 WLH)
M.Forst.1323	Wood Composites	(6 C / 4 WLH)
M.Forst.1324	Energetic Use of Wood	(6 C / 4 WLH)

bb. Additionally, one of the following 2 modules with a rating of 12 credits must be successfully completed.

M.Forst.1331	Project 1: Wood Technology and Wood Products/Wood Materials	(12 C / 8 WLH)
M.Forst.1332	Project 2: Molecular Wood Biotechnology	(12 C / 8 WLH)

b. Area of professionalisation (24 C)

The successful completion of optional modules with a total scope of 24 C is obligatory, including key competencies with a scope of 6 to 12 C. The forestry modules listed under number II can be selected as optional modules. Key competencies can be selected from modules listed in the Module Handbook Key Competencies released by the Universität Göttingen; modules that must be completed as optional required modules within the selected focus cannot be selected in this context.

c. Master thesis (30 C)

30 C are awarded for successful completion of the master thesis.

Focus 4 "Ecosystem Analysis and Modelling"

a. Specialist studies (60 C)

aa. The following 8 modules with a rating of 54 C should be successfully completed:

M.Forst.1411	Modelling of Population Dynamics and Biodiversity	(6 C / 4 WLH)
M.Forst.1412	Biodiversity Measurement	(6 C / 4 WLH)
M.Forst.1413	Ecosystem Theory – Analysis, Simulation Technologies	(6 C / 4 WLH)
M.Forst.1421	Processes in Ecology	(6 C / 4 WLH)
M.Forst.1422	Remote Sensing and GIS	(6 C / 4 WLH)
M.Forst.1423	Structural and Functional Models on an Eco-Physical Basis	(6 C / 4 WLH)
M.Forst.1424	Computer-Assisted Data Analysis	(6 C / 4 WLH)
M.Forst.1431	Project: Forest Ecosystem Analysis and Information Processing	(12 C / 2 WLH)

bb. Additionally, one of the following 2 modules with a rating of 6 credits must be successfully completed.

M.Forst.1111	Forest Business Administration and Management	(6 C / 4 WLH)
M.Forst.1461	Research and Knowledge Management	(6 C / 2 WLH)

b. Area of professionalisation (30 C)

The successful completion of optional modules with a total scope of 30 C is obligatory, including key competencies with a scope of 6 to 12 C. The forestry modules listed under number II can be selected as optional modules. Key competencies can be selected from modules listed in the Module Handbook Key Competencies released by the Universität Göttingen; modules that must be completed as optional required modules within the selected focus cannot be selected in this context.

c. Master thesis (30 C)

30 C are awarded for successful completion of the master thesis.

Focus 5 "Tropical and International Forestry"

a. Specialist studies (60 C)

The following 9 modules with a rating of 60 C should be successfully completed:

M.Forst.1511	Tropical forest ecology and silviculture	(6 C / 4 WLH)
M.Forst.1512	International forest policy and economics	(6 C / 4 WLH)
M.Forst.1513	Monitoring of forest resources	(6 C / 4 WLH)
M.Forst.1514	Forest utilization and wood processing	(6 C / 4 WLH)
M.Forst.1521	Ecopedology of the tropics and subtropics	(6 C / 4 WLH)
M.Forst.1522	Project planning and evaluation	(6 C / 4 WLH)
M.Forst.1523	Biometrical research methods	(6 C / 4 WLH)
M.Forst.1524	Biotechnology and forest genetics	(6 C / 4 WLH)
M.Forst.1531	Project: Development of a forest region	(12 C / 7 WLH)

b. Area of professionalisation (30 C)

The successful completion of optional modules with a total scope of 30 C is obligatory, including key competencies with a scope of 6 to 12 C. The forestry modules listed under number II can be selected as optional modules. Key competencies can be selected from modules listed in the Module Handbook Key Competencies released by the Universität Göttingen; modules that must be completed as optional required modules within the selected focus cannot be selected in this context.

c. Master thesis (30 C)

30 C are awarded for successful completion of the master thesis.

II. Optional Modules

1. Optional forestry modules in the English language

M.Forst.1601	Bioclimatology and global change	(6 C / 4 WLH)
M.Forst.1602	Dryland forestry and methods in silviculture	(6 C / 4 WLH)
M.Forst.1605	Forest protection and agroforestry	(6 C / 4 WLH)
M.Forst.1606	Forestry in Germany	(6 C / 4 WLH)
M.Forst.1607	Biodiversity, NTFP's and wildlife management	(6 C / 4 WLH)
M.Forst.1608	Physiology and biotechnology of trees and fungi	(6 C / 4 WLH)
M.Forst.1609	Remote sensing image processing with open source software	(6 C / 4 WLH)
M.Forst.1610	Tropical dendrology and wood science	(6 C / 4 WLH)
M.Forst.1611	Exercises in forest inventory	(6 C / 4 WLH)
M.Forst.1614	Internship in forest management and research	(6 C)
M.Forst.1615	Forest growth and tree-based land use in the tropics	(6 C / 4 WLH)

2. Optional forestry modules in the German language

M.Forst.1651	Applied Work Sciences	(6 C / 4 WLH)
M.Forst.1652	Tree Diseases, Forest Protection	(6 C / 4 WLH)
M.Forst.1653	Tree Care and Wood Properties	(6 C / 4 WLH)
M.Forst.1654	Soils of the Earth: Distribution, Properties and Use	(6 C / 4 WLH)
M.Forst.1655	Soil Chemistry Exercise	(6 C / 4 WLH)
M.Forst.1656	Soil Hydrology Exercise	(6 C / 4 WLH)
M.Forst.1657	Soil Microbiology Exercise	(6 C / 4 WLH)
M.Forst.1658	Soil Regions in Lower Saxony	(6 C / 4 WLH)
M.Forst.1659	Data Analysis for Advanced Students	(6 C / 4 WLH)
M.Forst.1660	Organism Interaction and Fungus Biotechnology	(6 C / 4 WLH)
M.Forst.1661	Tree Physiology Exercises	(6 C / 4 WLH)
M.Forst.1662	Field Excursion Site Mapping	(6 C / 4 WLH)
M.Forst.1664	Basics of Business Controlling	(6 C / 4 WLH)
M.Forst.1665	Basics of Population Genetics	(6 C / 4 WLH)
M.Forst.1666	Wood Application and Wood Biotechnology	(6 C / 4 WLH)
M.Forst.1668	Disruptions as a Basis for Ecosystem Management	(6 C / 4 WLH)
M.Forst.1669	Ecologically Sound Recovery Planning	(6 C 7 4 WLH)
M.Forst.1670	Programming with Java	(6 C / 4 WLH)
M.Forst.1671	Eco-Physiological and Genetic Exercises	(6 C / 4 WLH)
M.Forst.1673	Special Aspects of Tree Physiology	(6 C / 4 WLH)
M.Forst.1674	Stable Isotopes in Terrestrial Ecology	(6 C / 4 WLH)
M.Forst.1677	Exercises in Forest Measurement Studies and Forest Inventory	(6 C / 4 WLH)
M.Forst.1678	Variation Measurements in Biology and Specifically in Genetics	(6 C / 4 WLH)
M.Forst.1682	Water and Material Balance in Terrestrial Ecosystems	(6 C / 4 WLH)

M.Forst.1683	Research Internship in Wood Technology	(6 C)
M.Forst.1684	Products Made of Wood	(6 C / 4 WLH)
M.Forst.1685	Ecological Modelling	(6 C / 4 WLH)
M.Forst.1686	Forest-Game Seminar	(6 C / 4 WLH)
M.Forst.1687	Internship in Paper Technology	(6 C / 4 WLH)
M.Forst.1688	Taxes, Taxation and Forest Evaluation	(6 C / 4 WLH)
M.Forst.1689	Ecological Modelling with C++	(6 C / 4 WLH)
M.Forst.1690	Measurement Internship at Klimaturm Göttinger Wald	(6 C / 4 WLH)
M.Forst.1691	Renaturation of Ecosystems	(6 C / 4 WLH)
M.Forst.1692	Model Analysis and Model Application	(6 C / 4 WLH)
M.Forst.1694	Research Internship in Data Analysis	(6 C)
M.Forst.1695	Forest Ecosystems	(6 C / 4 WLH)
M.Forst.1696	Specialist Internship in Conservation	(6 C)

B. Module package "Forest Sciences"

(can be completed only as part of another suitable Master Programme)

1. Specialist goals of the studies

[1] Students acquire in-depth scientific knowledge, the ability for independent subject-specific

and interdisciplinary scientific work and for application of scientific findings. [2]The research-oriented structure serves as preparation for possible subsequent doctoral studies and also for work in an occupational field with an academic slant.

[3]Successful completion of the studies contained in the module package "Forestry Sciences" with a scope of 36 C therefore qualifies graduates to conduct research in university and other research institutions and also for (executive) positions in other occupational fields:

- Administrations,
- development cooperation
- public relations,
- companies,
- research institutions,
- international organisations,
- consultancy work.

2. Entry qualifications

Persons wishing to study the module package "Forestry Sciences" in a scope of 36 C must have completed at least 30 C in the field of forestry sciences as part of a prior degree programme.

3. Module overview

The following sic optional required modules with a rating of 36 C must be successfully completed:

M.Forst.1111	Forest Business Administration and Management	(6 C / 5 WLH)
M.Forst.1113	Forest and Society	(6 C / 4 WLH)
M.Forst.1314	Renewable Resources	(6 C / 4 WLH)
M.Forst.1511	Tropical forest ecology and silviculture	(6 C / 4 WLH)
M.Forst.1512	International forest policy and economics	(6 C / 4 WLH)
M.Forst.1654	Soils of the Earth: Distribution, Properties and Use	(6 C / 4 WLH)

4. Reassessment of examination components

Failed examinations or those deemed to have been failed can be retaken twice.

5. Sample curriculum

Sem. **Σ C***	**Module package "Forest Sciences" (36 C)** *		
	Module	**Module**	**Module**

1. **Σ 18 C**	M.Forst.1111: Forestry Business Administration and Management 6 C	M.Forst.1113: Forest and Society 6 C	M.Forst.1314: Renewable Resources 6 C
2.			
3. **Σ 18 C**	M.Forst.1511: Tropical forest ecology and silviculture 6 C	M.Forst.1512: International forest policy and economics 6 C	M.Forst.1654: Soil around the World: Distribution, Properties and Use 6 C
4.			
Σ 36 C			

Sample curriculum **A p p e n d i x 2**

Focus 1 "Forest Management and Forest Utilisation" Start in winter semester

1. Sem **WS** **30 C**	**M.Forst.1111:** **Forestry Business Administration and Management** 4 WLH / 6 C 2 x M (each approx. 15	**M.Forst.1112:** **Work Sciences and Forestry Technology** 4 WLH / 6 C K (90 min.)	**M.Forst.1113:** **Forest and Society** 4 WLH / 6 C R (approx. 30 min.)	**M.Forst.1161:** **Markets and Uses for Wood** 4 WLH / 6 C (**A**) Optional required modules 1 of A,B,C,D	**M.Forst.1162:** **Legal and Political Control** 4 WLH / 6 C (**B**) Optional required modules 1 of A,B,C,D
2. Sem **SS** **30 C**	**M.Forst.1121:** **Forest Construction Systems** 4 WLH / 6 C H (15 pages)	**M.Forst.1122:** **Forest Growth and Forest Planning Advanced** 4 WLH / 6 C M (~15 min.), K (60 min.)	**M.Forst.1123:** **Forest Location and Forest Conservation** 4 WLH / 6 C R (~20 min.), H (20 pages)	**M.Forst.1124:** **Forest Inventory and Data Analysis** 4 WLH / 6 C K (120 min.)	**M.Forst.1164:** **Forest Management** 4 WLH / 6 C (**C**) Optional required modules 1 of A,B,C,D K (90 Min.)
3. Sem **WS** **30 C**	**M.Forst.1131:** **Project: Forest Ecosystem Management** 8 WLH / 12 C R (40%), P (60%, 20 pages)		**M.Forst.1132:** **Forestry Company and Research Internship** 6 C * H (20 pages)	Optional 6 C	**M.Forst.1163:** **Proliferation and Cultivation of the Forest Trees** 4 WLH / 6 C (**D**) Optional required
4. Sem **SS** **30 C**	Master thesis 30 C *				

Focus 1 "Forest Management and Forest Utilisation" Start in summer semester

1. Sem **SS** **30 C**	**M.Forst.1121:** **Forest Construction Systems** 4 WLH / 6 C H (15 pages)	**M.Forst.1122:** **Forest Growth and Forest Planning Advanced** 4 WLH / 6 C M (~15 min.), K (60 min.)	**M.Forst.1123:** **Forest Location and Forest Conservation** 4 WLH / 6 C R (~20 min.), H (20 pages)	**M.Forst.1124:** **Forest Inventory and Data Analysis** 4 WLH / 6 C K (120 min.)	**M.Forst.1164:** **Forest Management** 4 WLH / 6 C (**A**) Optional required modules 1 of A,B,C,D K (90 min.)
2. Sem **WS** **30 C**	**M.Forst.1111:** **Forestry Business Administration and Management** 4 WLH / 6 C 2 x M (each approx. 15	**M.Forst.1112:** **Work Sciences and Forestry Technology** 4 WLH / 6 C K (90 min.)	**M.Forst.1113:** **Forest and Society** 4 WLH / 6 C R (approx. 30 min.)	**M.Forst.1161:** **Markets and Uses for Wood** 4 WLH / 6 C (**B**) Optional required modules 1 of A,B,C,D	**M.Forst.1162:** **Legal and Political Control** 4 WLH / 6 C (**C**) Optional required modules 1 of A,B,C,D
3. Sem **SS** **30 C**	Master thesis 30 C *				
4. Sem **WS** **30 C**	**M.Forst.1131:** **Project: Forest Ecosystem Management** 8 WLH / 12 C R (40%), P (60%, 20 pages)	**M.Forst.1132:** **Forestry Company and Research Internship** 6 C * H (20 pages)	Optional 6 C	**M.Forst.1163:** **Proliferation and Cultivation of the Forest Trees** 4 WLH / 6 C (**D**) Optional required	

Focus 2: "Forest Conservation" Starts in winter semester

1. Sem **WS** **30 C**	**M.Forst.1211: Ecological and Planning Basics in Forest Conservation** 4 WLH / 6 C R (approx. 30 min.)	**M.Forst.1212: Laws and Policies in Conservation** 4 WLH / 6 C 2 x K (each 60 min.)	**M.Forst.1213: Genetic Resources and Physiology of Wood Types** 4 WLH / 6 C 2 x H (each 10 pages)	**M.Forst.1261: Biodiversity** 4 WLH / 6 C (**A**) Optional required modules 2 of A, B, C K (120 min.),	Optional 6 C
2. Sem **SS** **30 C**	**M.Forst.1422: Remote sensing and GIS** 4 WLH / 6 C K (120 min.)	**M.Forst.1222: Climate and Soil Protection** 4 WLH / 6 C Final report (10 pages), presentation (~20 min.)	**M.Forst.1223: Forest fauna** 4 WLH / 6 C R (approx. 20 min.)	**M.Forst.1262: Forest Function, Forest Conservation and Forest Recovery Planning** 4 WLH/6 C R (20	**M.Forst.1263: Modern Methods in Ecology** 4 WLH / 6 C (**C**) Optional required modules 2 of A, B, C
3. Sem **WS** **30 C**	**M.Forst.1231: Project: Forest Conservation and Special Forest Ecology** 2 WLH / 12 C P (20 pages), presentation (approx. 30 min.)		Optional 6 C	Optional 6 C	Optional 6 C
4. Sem **SS** **30 C**	Master thesis 30 C *				

Focus 2: "Forest Conservation" Starts in summer semester

1. Sem **SS** **30 C**	**M.Forst.1422: Remote Sensing and GIS** 4 WLH / 6 C K (120 min.)	**M.Forst.1222: Climate and soil protection** 4 WLH / 6 C Final report (10 pages), presentation (~20 min.)	**M.Forst.1223: Forest fauna** 4 WLH / 6 C R (approx. 20 min.)	**M.Forst.1262: Forest Function, Forest Conservation and Forest Recovery Planning** 4 WLH/6 C R (20	**M.Forst.1263: Modern Methods in Ecology** 4 WLH / 6 C (**B**) Optional required modules 2 of A, B, C
2. Sem **WS** **30 C**	**M.Forst.1211: Ecological and Planning Basics in Forest Conservation** 4 WLH / 6 C R (approx. 30 min.)	**M.Forst.1212: Laws and Policies in Conservation** 4 WLH / 6 C 2 x K (each 60 min.)	**M.Forst.1213: Genetic Resources and Physiology of Wood Types** 4 WLH / 6 C 2 x H (each 10 pages)	**M.Forst.1261: Biodiversity** 4 WLH / 6 C (**A**) Optional required modules 2 of A, B, C K (120 min.),	Optional 6 C
3. Sem **SS** **30 C**	Master thesis 30 C *				
4. Sem **WS** **30 C**	**M.Forst.1231: Project: Forest Conservation and Special Forest Ecology** 2 WLH / 12 C P (20 pages), presentation (approx. 30 min.)	Optional 6 C	Optional 6 C	Optional 6 C	

Focus 3: "Wood Biology and Wood Technology" Starts in winter semester

1. Sem **WS** **30 C**	**M.Forst.1311:** **Physics and Chemistry of Wood** 4 WLH / 6 C M (approx. 20 min.)	**M.Forst.1312:** **Wood Biology** 4 WLH / 6 C H (10 pages), M (~15 min.)	**M.Forst.1313:** **Wood Biotechnology** 4 WLH / 6 C K (120 min.)	**M.Forst.1314:** **Renewable Resources** 4 WLH / 6 C 2-3 x M (each approx. 15 Min.)	**M.Forst.1315:** **Socioeconomics** 4 WLH / 6 C M (~15 min.), K (60 min.) R (~10 min.) (2 of 3)
2. Sem **SS** **30 C**	**M.Forst.1321:** **Wood Technology** 4 WLH / 6 C M (approx. 20 min.)	**M.Forst.1322:** **Wood and Paper Industry** 4 WLH / 6 C K (90 min.)	**M.Forst.1323:** **Wood Composites** 4 WLH / 6 C M (approx. 20 min.), M (approx. 15 min.)	**M.Forst.1324:** **Energetic Use of Wood** 4 WLH / 6 C K (90 min.)	Optional 6 C
3. Sem **WS** **30 C**	**M.Forst.1331:** **Project 1: Wood Technology and Wood Products / Wood Materials** or **M.Forst.1332:** **Project 2: Molecular Wood Biotechnology** 8 WLH / 12 C P (20 pages)		Optional 6 C	Optional 6 C	Optional 6 C
4. Sem **SS** **30 C**	Master thesis 30 C *				

Focus 3: "Wood Biology and Wood Technology" Starts in summer semester

1. Sem **SS** **30 C**	**M.Forst.1321:** **Wood Technology** 4 WLH / 6 C M (approx. 20 min.)	**M.Forst.1322:** **Wood and Paper Industry** 4 WLH / 6 C K (90 min.)	**M.Forst.1323:** **Wood Composites** 4 WLH / 6 C M (approx. 20 min.), M (approx. 15 min.)	**M.Forst.1324:** **Energetic Use of Wood** 4 WLH / 6 C K (90 min.)	Optional 6 C
2. Sem **WS** **30 C**	**M.Forst.1311:** **Physics and Chemistry of Wood** 4 WLH / 6 C M (approx. 20 min.)	**M.Forst.1312:** **Wood Biology** 4 WLH / 6 C H (10 pages), M (~15 min.)	**M.Forst.1313:** **Wood Biotechnology** 4 WLH / 6 C K (120 min.)	**M.Forst.1314:** **Renewable Resources** 4 WLH / 6 C 2-3 x M (each approx. 15 Min.)	**M.Forst.1315:** **Socioeconomics** 4 WLH / 6 C M (~15 min.), K (60 min.) R (~10 min.) (2 of 3)
3. Sem **SS** **30 C**	**M.Forst.1331:** **Project 1: Wood Technology and Wood Products / Wood Materials** or **M.Forst.1332:** **Project 2: Molecular Wood Biotechnology** 8 WLH / 12 C P (20 pages)		Optional 6 C	Optional 6 C	Optional 6 C
4. Sem **WS** **30 C**	Master thesis 30 C *				

Focus 4: "Ecosystem Analysis and Modelling" Starts in winter semester

1. Sem **WS** **30 C**	**M.Forst.1411:** **Modelling of Population Dynamics and Biodiversity** 4 WLH / 6 C K (120 min.)	**M.Forst.1412:** **Biodiversity Measurement** 4 WLH / 6 C H (20 pages)	**M.Forst.1413:** **Ecosystem Theory Analysis, Simulation Technologies** 4 WLH / 6 C 2 x H (each 10 pages)	**M.Forst.1111:** **Forestry Business Administration and Management** 4 WLH / 6 C (**A**) Optional required	Optional 6 C
2. Sem **SS** **30 C**	**M.Forst.1421:** **Processes in Ecology** 4 WLH / 6 C K (60 min.), H (10 pages)	**M.Forst.1422:** **Remote Sensing and GIS** 4 WLH / 6 C K (120 min.)	**M.Forst.1423:** **Structural and Functional Models on an Eco-Physical Basis** 4 WLH / 6 C H (20 pages)	**M.Forst.1424:** **Computer-Assisted Data Analysis** 4 WLH / 6 C K (120 min.)	**M.Forst.1461:** **Research and Knowledge Management** 2 WLH / 6 C (**B**) Optional required
3. Sem **WS** **30 C**	**M.Forst.1431:** **Project: Forest Ecosystem Analysis and Information Processing** 2 WLH / 12 C P (20 pages), presentation (approx. 10 min.)		Optional 6 C	Optional 6 C	Optional 6 C
4. Sem **SS** **30 C**	Master thesis 30 C *				

Focus 4: "Ecosystem Analysis and Modelling" Starts in summer semester

1. Sem **SS** **30 C**	**M.Forst.1421: Processes in Ecology** 4 WLH / 6 C K (60 min.), H (10 pages)	**M.Forst.1422: Remote Sensing and GIS** 4 WLH / 6 C K (120 min.)	**M.Forst.1423: Structural and Functional Models on an Eco-Physical Basis** 4 WLH / 6 C H (20 pages)	**M.Forst.1424: Computer-Assisted Data Analysis** 4 WLH / 6 C K (120 min.)	**M.Forst.1461: Research and Knowledge Management** 2 WLH / 6 C (**A**) Optional required
2. Sem **WS** **30 C**	**M.Forst.1411: Modelling of Population Dynamics and Biodiversity** 4 WLH / 6 C K (120 min.)	**M.Forst.1412: Biodiversity Measurement** 4 WLH / 6 C H (20 pages)	**M.Forst.1413: Ecosystem Theory Analysis, Simulation Technologies** 4 WLH / 6 C 2 x H (each 10 pages)	**M.Forst.1111: Forestry Business Administration and Management** 4 WLH / 6 C (**B**) Optional required	Optional 6 C
3. Sem **SS** **30 C**	**M.Forst.1431: Project: Forest Ecosystem Analysis and Information Processing** 2 WLH / 12 C P (20 pages), presentation (approx. 10 min.)		Optional 6 C	Optional 6 C	Optional 6 C
4. Sem **WS** **30 C**	Master thesis 30 C *				

Focus 5: "Tropical and International Forestry" Starts in winter semester

1. Sem **WS** **30 C**	**M.Forst.1511:** **Tropical forest ecology and silviculture** 4 WLH / 6 C M (approx. 20 min.)	**M.Forst.1512:** **International forest policy and economics** 4 WLH / 6 C 2 x K (each 60 min.)	**M.Forst.1513:** **Monitoring of forest resources** 4 WLH / 6 C K (120 min.)	**M.Forst.1514:** **Forest utilization and wood processing** 4 WLH / 6 C K (120 min.)	Optional 6 C
2. Sem **SS** **30 C**	**M.Forst.1521:** **Ecopedology of the tropics and subtropics** 2 WLH + field exc. / 6 C * H (10 pages), K (120	**M.Forst.1522:** **Project planning and evaluation** 4 WLH / 6 C K (90 min.)	**M.Forst.1523:** **Biometrical research methods** 4 WLH / 6 C K (120 min.)	**M.Forst.1524:** **Biotechnology and forest genetics** 4 WLH / 6 C 2 x M (each approx. 15 min.)	Optional 6 C
3. Sem **WS** **30 C**	**M.Forst.1531:** **Project: Development of a forest region** 7 WLH / 12 C P (20 pages)		Optional 6 C	Optional 6 C	Optional 6 C
4. Sem **SS** **30 C**	Master thesis 30 C *				

Focus 5: "Tropical and International Forestry" Starts in summer semester

1. Sem **SS** **30 C**	**M.Forst.1521:** **Ecopedology of the tropics and subtropics** 2 WLH + field exc. / 6 C * H (10 pages), K (120	**M.Forst.1522:** **Project planning and evaluation** 4 WLH / 6 C K (90 min.)	**M.Forst.1523:** **Biometrical research methods** 4 WLH / 6 C K (120 min.)	**M.Forst.1524:** **Biotechnology and forest genetics** 4 WLH / 6 C 2 x M (each approx. 15 min.)	Optional 6 C
2. Sem **WS** **30 C**	**M.Forst.1511:** **Tropical forest ecology and silviculture** 4 WLH / 6 C M (approx. 20 min.)	**M.Forst.1512:** **International forest policy and economics** 4 WLH / 6 C 2 x K (each 60 min.)	**M.Forst.1513:** **Monitoring of forest resources** 4 WLH / 6 C K (120 min.)	**M.Forst.1514:** **Forest utilization and wood processing** 4 WLH / 6 C K (120 min.)	Optional 6 C
3. Sem **SS** **30 C**	Master thesis 30 C *				
4. Sem **WS** **30 C**	**M.Forst.1531:** **Project: Development of a forest region** 7 WLH / 12 C P (20 pages)		Optional 6 C	Optional 6 C	Optional 6 C

Explanations: M = oral examination, K = written examination, R = presentation with written copy, H = paper, P = project work