

# Subject-specific Study Regulations

## for the Master's Degree Programme in "Integrated Natural Resource Management"

In accordance with § 17 para. 1 (3) of the constitution of Humboldt-Universität zu Berlin as amended on 24 October 2013 (University Gazette of Humboldt-Universität zu Berlin no. 47/2013), the Faculty Board of the Faculty of Life Sciences issued\* the following study regulations on 13 November 2013:

§ 1 Area of application

§ 2 Start of the programme

§ 3 Objectives of the programme

§ 4 Types of courses

§ 5 Modules of the programme

§ 6 Interdisciplinary elective modules from other master's degree programmes

§ 7 Commencement

**Appendix 1:** Module Descriptions

**Appendix 2:** Ideal Study Plan Without Semester Abroad

**Appendix 3:** Ideal Study Plan With Semester Abroad

### § 1 Area of application

(1) The study regulations presented hereinafter shall contain the subject-specific regulations of the master's degree programme in "Integrated Natural Resource Management". They shall apply in connection with the subject-specific examination regulations of the master's degree programme in "Integrated Natural Resource Management" and the "General Admission, Study and Examination Regulations of Humboldt-Universität zu Berlin (ZSP-HU)" in their respective current version.

### § 2 Start of the programme

The programme starts at the beginning of the winter semester.

### § 3 Objectives of the programme

(1) The objective of the master's degree programme as a second professional qualifying degree in the field of integrated natural resource management shall be to prepare students for a professional career or for pursuing a doctoral degree.

(2) After successfully completing their studies, students shall be qualified to make a targeted contribution to solving questions of sustainability of interconnected natural, technical, economic and social systems. They shall be able to analyse scientific and social interrelationships, particularly with regard to the interaction of social and ecological systems, and to develop and implement concrete measures aimed at sustainable use of resources.

(3) The master's degree programme shall provide professional, theoretical, methodological and social competences that are indispensable for scientific work. To obtain the degree, students will also have demonstrated creativity, readiness to think innovatively and a sense of responsibility.

(4) Students will have obtained key interdisciplinary qualifications for a broad and dynamically changing professional field. Professional fields of application shall include leading positions in agriculture and environmental economics, in authorities, services and science. Students will be able to critically categorise, assess and convey their acquired knowledge. They will be taught to engage in lifelong learning and teamwork.

(5) The modules of this programme are offered in English. In the interdisciplinary elective area modules offered in German can be chosen. Students will have taken the opportunity to acquire and use foreign language skills.

(6) The master's degree programme in "Integrated Natural Resource Management" shall offer opportunities to participate in research and development projects.

#### **§4 Types of courses**

(1) The types of courses shall not only correspond to the types of courses named in ZSP-HU, but also include study projects.

(2) The study project (SPJ) may be conducted individually or as group work in the second or third semester of the programme. In the context of the topic chosen for their study project, students shall apply and put to the test particular methods of scientific research. Furthermore, they shall acquire additional qualifications in the presentation of scientific findings and in interdisciplinary cooperation.

#### **§5 Modules of the programme**

The master's degree programme comprises modules with a total workload of 120 credit points (CP).

##### (a) Compulsory modules (54 CP)

Compulsory modules of the programme comprise four modules with a total workload of 24 CP as well as the master's thesis worth 30 CP:

- CM 1: Ecosystems of Agricultural Landscapes and Sustainable Natural Resource Use (6 CP)
- CM 2: Environmental and Resource Economics II: Strategies and Policies (6 CP)
- CM 3: Soil and Water Protection (6 CP)
- CM 4: Institutional Economics and Political Economy I – Basic Concepts and Applications (6 CP)
- Master's Thesis (30 CP)

##### (b) Compulsory elective modules (54 CP)

(1) The compulsory elective area consists of modules as well as the study project. The modules are grouped into the following four knowledge areas. Modules with a workload of 54 CP (i.e., 9 modules or 7 modules and the study project) are to be completed.

(2) The study project is to be assigned to one of the knowledge areas. The supervisor must inform the Examination Office of the assignment and place it on record. Out of the following options, at least one module from at least three of the four knowledge areas has to be completed:

Knowledge Area 1: "Natural Sciences Applied to the Use and Protection of Natural Resource Systems":

- FM 1: Biodiversity: Assessment, Function and Evolution (6 CP)
- FM 2: Agricultural Climatology and Ecophysiology (6 CP)
- FM 3: Irrigation and Drainage Systems (6 CP)
- FM 4: Plant Diseases in the Environment and Control Management (6 CP)
- FM 5: Practices and Organisation of Organic Farming (6 CP)

Knowledge Area 2: "Social Sciences Applied to the Use and Protection of Natural Resource Systems":

- FM 6: Environmental Sociology and Environmental Policy (6 CP)
- FM 7: Environmental and Resource Economics III: Environmental Institutions and Governance (6 CP)
- FM 8: Participatory Rural Innovation and Knowledge Systems (6 CP)
- FM 9: Economics of Human Development (6 CP)
- FM 10: Co-operation and Co-operative Organisations (6 CP)

Knowledge Area 3: "Advanced Methodologies for Empirical Analysis of the Interaction of Social, Natural and Technical Systems":

- FM 11: Human-Environmental Systems Interaction (6 CP)
- FM 12: Advanced Empirical Methodology for Socio-Ecological Systems Analysis (6 CP)
- FM 13: Geographic Information Systems (GIS) and Landscape Analysis (6 CP)
- FM 14: Market and Policy Analysis II (6 CP)
- FM 15: Risk and Uncertainty in Science and Policy (6 CP)

Knowledge Area 4: "Management of Environmental and Natural Resource Systems":

- FM 16: Environmental Management and Information Systems (6 CP)
- FM 17: Land and Water Management (6 CP)
- FM 18: Biodiversity and Conservation Management (6 CP)
- FM 19: Climate and Energy Management (6 CP)
- FM 20: Integrative Fisheries Management (6 CP)
- FM 21: International Forest Use and Management (6 CP)
- FM 22: The Role of Gender for Sustainable Resource Management (6 CP)
- FM 23: Project Management – Applied Natural Resource-based Sectors and Development Programmes (6 CP)

All Knowledge Areas:

- FWM/FM 24: Study Project (12 CP)

(3) Compulsory elective modules can be grouped cross-disciplinarily into six priority areas, of which students have to elect two. These study areas allow for a focus on a thematically coherent group of subjects and have to be reported to the Examination Office by the students during the second semester at the latest.

(4) Each study area comprises three modules (18 CP), whereby two modules (12 CP) are to be elected from the first three modules in the selection list below and a third module (6 CP) is to be completed out of the remaining modules.

(5) Each module can only be accounted for in one priority area at a time.

1. Priority Area "Methodology and Modelling of Sustainability":

- FM 11: *Human-Environmental Systems Interaction* (6 CP)
- FM 12: *Advanced Empirical Methodology for Socio-Ecological Systems Analysis* (6CP)
- FM 13: *Geographic Information Systems (GIS) and Landscape Analysis* (6 CP)
- FM 15: *Risk and Uncertainty in Science and Policy* (6 CP)
- FM 9: *Economics of Human Development* (6 CP)

2. Priority Area "Sustainable Production Processes":

- FM 5: *Practices and Organisation of Organic Farming* (6 CP)
- FM 16: *Environmental Management and Information Systems* (6 CP)
- FM 4: *Plant Diseases in the Environment and Control Management* (6 CP)
- FM 10: *Co-operation and Co-operative Organisations* (6 CP)
- FM 14: *Market and Policy Analysis II* (6 CP)

3. Priority Area "Sustainability Institutions and Policies":

- FM 6: *Environmental Sociology and Environmental Policy* (6 CP)
- FM 7: *Environmental and Resource Economics III: Environmental Institutions and Governance* (6 CP)
- FM 10: *Co-operation and Co-operative Organisations* (6 CP)
- FM 11: *Human-Environmental Systems Interaction* (6 CP)
- FM 12: *Advanced Empirical Methodology for Socio-Ecological Systems Analysis* (6 CP)

4. Priority Area "Land and Water":

- FM 3: *Irrigation and Drainage Systems* (6 CP)
- FM 17: *Land and Water Management* (6 CP)
- FM 13: *Geographic Information Systems (GIS) and Landscape Analysis* (6 CP)
- FM 23: *Project Management – Applied Natural Resource-based Sectors and Development Programmes* (6 CP)
- FM 7: *Environmental and Resource Economics III: Environmental Institutions and Governance* (6 CP)

5. Priority Area " Biodiversity and Nature Conservation":

- FM 1: *Biodiversity: Assessment, Function and Evolution* (6 CP)
- FM 18: *Biodiversity and Conservation Management* (6 CP)
- FM 12: *Advanced Empirical Methodology for Socio-Ecological Systems Analysis* (6 CP)
- FM 20: *Integrative Fisheries Management* (6 CP)
- FM 7: *Environmental and Resource Economics III: Environmental Institutions and Governance* (6 CP)

6. Priority Area "Climate Change and Renewable Energy":

- FM 2: *Agricultural Climatology and Ecophysiology* (6 CP)
- FM 19: *Climate and Energy Management* (6 CP)
- FM 11: *Human-Environmental Systems Interaction* (6 CP)
- FM 21: *International Forest Use and Management* (6 CP)
- FM 7: *Environmental and Resource Economics III: Environmental Institutions and Governance* (6 CP)

(c) Interdisciplinary elective area (12 CP):

Interdisciplinary elective modules with a workload of 12 CP are to be completed in the form of master's modules from other study programmes of the Thae-Institute of Agricultural and Horticultural Sciences or designated master's modules from other study programmes and central institutions of Humboldt-Universität or other universities.

**§ 6 Interdisciplinary elective modules for other master's degree programmes**

The following interdisciplinary elective modules are offered for other master's degree programmes:

- FM 5 (ÜF): *Practices and Organisation of Organic Farming* (10 CP)
- FM 9 (ÜF): *Economics of Human Development* (10 CP)

The German version shall apply.

- FM 10 (ÜF): Co-operation and Co-operative Organisations (10 CP)
- FM 22 (ÜF): The Role of Gender for Sustainable Resource Management (10 CP)

### **§ 7 Commencement**

(1) The present study regulations shall come into force on the day after their publication in the "University Gazette of Humboldt-Universität zu Berlin".

(2) The present study regulations shall apply to all students who begin their studies after the regulations have come into force as well as to students who have changed their university, programme or course of studies.

(3) The regulations of 6 February 2006 (University Gazette of Humboldt-Universität zu Berlin no. 9/2006) shall apply to those students who began their studies prior to the commencement of the present regulations. Alternatively, such students can also choose to study under the present regulations, including the corresponding examination regulations. If they choose to do so, their choice shall be declared in writing at the Examination Office and shall be irreversible. The study regulations dated 6 February 2006 will expire by the end of the winter semester 2016/17. After expiration, all students, including those designated in sentence 1, will be bound to the present study regulations with already completed coursework being assessed according to § 110 ZSP-HU.