

## **STUDY REGULATIONS for the Master's Degree Program in "Fishery Science and Aquaculture"**

According to § 17 Para 1 No. 1 of the Temporary Constitution of Berlin Humboldt University (Official Bulletin of the HU No. 05/2005), the Faculty Council of the Faculty of Agriculture and Horticulture has established the following Study Regulations for the Master's Degree Program in "Fishery Science and Aquaculture", on 13<sup>th</sup> July 2005:\*

### **Contents**

- § 1 Validity
- § 2 Program aims
- § 3 Conditions of registration, registration
- § 4 Duration and extent of the program
- § 5 Program plan
- § 6 Advice for students
- § 7 Development of the program
- § 8 Teaching units
- § 9 Specialized optional modules (Basics)
- § 10 Specialized optional modules (Extension)
- § 11 Free choice modules
- § 12 Student project
- § 13 Master's thesis
- § 14 Content of teaching units
- § 15 Examination requirements
- § 16 Capacity of teaching units
- § 17 Start of the program
- § 18 Transfer regulations
- § 19 Date of validity

Attachment: Program plan

### **§ 1 - Validity**

These regulations direct the aims, content and structure of the Master's program in "Fishery Science and Aquaculture" at the Faculty of Agriculture and Horticulture at the Humboldt University of Berlin. They are

only valid in combination with the examination regulations of this program.

### **§ 2 – Program aims**

(1) The aim of the Master's program as a second professional qualification in the field of Fishery Science and Aquaculture is to prepare the student for the profession or to lay the basis for a doctorate.

(2) On successful completion of the program, the students are capable of making a relevant contribution to guaranteeing nutrition and the protection of natural resources. They are able to combine their special knowledge of fishery science and aquaculture with their knowledge of livestock science and other related branches from an interdisciplinary point of view.

(3) During the master's program, the students acquire the professional, methodical and social competences which are essential for scientific study. They have proved their creativity, openness for innovation and responsibility.

(4) The students acquire the key qualifications for a wide and constantly changing area of work. They are able to assess critically, evaluate and transmit the knowledge they have acquired. They are capable of lifelong learning and team work.

(5) The modules are held in English. Therefore, the students have used the opportunities to acquire and to use their knowledge of a foreign language.

### **§ 3 – Conditions of registration, registration**

The admittance to the Master's Program in "Fishery Science and Aquaculture" is regulated in the Admission Regulations of this program.

---

\* These regulations were approved on 17. July 2006 by the Senatsverwaltung für Wissenschaft, Forschung und Kultur, temporarily until 30<sup>th</sup> September 2007.

#### **§ 4 – Duration and extent of the program**

(1) The regular duration of this program is two years (4 semesters). Part-time studies are possible according to the statutes of study and examinations of the Humboldt-University of Berlin in its present form.

(2) The program comprises 13 modules and a student project or 15 modules without student project. The whole program comprises 120 credits with –on the average- 30 credits per semester.

(3) A Master's thesis, worth 30 credits is to be submitted on completion of the program.

#### **§ 5 – Program plan**

(1) The program plan (see attachment) gives an overview of the structure of the program. It advises the students on how to structure their studies and takes into account synergies between modules and the organisational requirements of the program.

(2) The modules offered have to be organised in a way that enables the students to stick to the regular duration of the program.

#### **§ 6 – Advice for students**

(1) Advice to the students is available through the Central Advisory Service at the Humboldt University of Berlin and the manager of the Office of Studies in the Faculty of Agriculture and Horticulture.

(2) During the studies, professors or scientific staff offer program-related advice. The advice available should enable the students to plan their studies effectively and to complete the program within the regular time (according to § 4 Para. 1).

(3) Advice concerning examination matters will be provided by the Chairperson of the Examination Board.

(4) The faculty supports the Student's Advisory Service by providing the necessary resources.

#### **§ 7 – Development of the program**

(1) The faculty has the obligation to improve and keep up to date the teaching available. The Study Dean regularly reports on this topic to the Faculty Council.

(2) The teaching units will be evaluated regularly.

(3) To ensure that the program remains practical, analyses from the professional field will be carried out.

#### **§ 8 – Teaching units**

(1) The teaching units are held as modules.

(2) One module comprises a teaching course of 4 lessons per week for one semester and a total workload of 180 hours, worth 6 credits\*.

(3) Each module is complete in itself, with defined aims, content and forms of teaching and learning.

(4) Each module ends with an examination.

(5) Within each module, a variety of teaching and learning forms is possible, e.g. lectures, practicals, seminars, excursions, colloquia, project and group work.

(6) Lectures are teaching units with a teacher lecturing before the students. Seminars are units with a limited number of participating students aiming the learning of specific abilities. Seminars include the independent work on a topic by the students under supervision of a teacher. Colloquia are held for the program related discussion of present topics and research results. Excursions are field trips to program-related places under guidance of a teacher. During exercises, guided by teachers or tutors, the contents of the lectures find a practical application. Tutorials are units, in which the most progressive students absorb basic knowledge and are trained for basic skills. Tutors are mostly student employees.

(7) Tutorials are offered in support of the teaching units.

---

\* according to the European Credit Transfer and Accumulation System (ECTS)

### **§ 9 – Specialized optional modules (Basics)**

Five specialized optional modules (basics) must be taken, including at least one module from these topic areas (see attachment):

- Limnology/Ichthyology
- Fishery Management
- Fish Breeding and Fish Pathology.

### **§ 10 – Specialized optional modules (Extension)**

Five compulsory elective modules (extension) are to be taken (see attachment).

If the student project is not carried out, according to § 7 (4) of the examination regulations, an additional specialized optional module (extension) must be taken from those offered in this program.

### **§ 11 – Free choice modules**

(1) In addition to the specialized optional modules, 3 free choice modules must be taken. If the student project is not carried out, according to § 7 (4) of the examination regulations, one additional specialized optional module (extension) and one additional free choice module must be taken.

(2) The free choice modules can be selected freely from those specialized optional modules of this program, which have not been taken, the options of other master's programs of the faculty or from other master's (or equivalent) programs of other faculties and universities.

### **§ 12 - Student project**

(1) The student project is carried out during the second year, either individually or in a group, and is supervised by teaching staff.

(2) The workload of the student project is equivalent to 360 hours and 12 credits.

(3) Within the framework of the project, the students explore the methods of scientific research in the context of a chosen topic. They gain additional qualifications in the presentation of scientific results and in interdisciplinary cooperation.

### **§ 13 – Master's thesis**

(1) A thesis is to be presented to complete the program. This can be presented in either English or German language.

(2) The workload of the thesis is equivalent to 900 hours or 30 credits.

(3) Through their thesis, the students demonstrate that they are capable of treating a scientific subject from the field of fishery science and aquaculture independently and of presenting their results clearly.

### **§ 14 – Content of teaching units**

In the attachment of these regulations (only in the internet version), a catalogue of modules with the description of the single modules can be found. On proposal of the Examination Board, The Faculty Council may decide on revising, cancelling and adding of modules to this list. The up to date changes can be seen at the faculty's note board or in the internet.

### **§ 15 – Examination requirements**

The students' achievements are to be demonstrated according to the examination regulations. They may be presented in either English or German language.

### **§ 16 – Capacity of teaching units**

If there are insufficient places on the individual compulsory modules, the capacity of the module must be reviewed on application by the department affected. The Faculty Council is required to take measures to increase the capacity and to introduce a procedure to ensure a fair arrangement of the waiting list.

### **§ 17 – Start of the program**

The master's program begins in the summer and winter semesters. Commencement in the winter semester is recommended.

### **§ 18 – Transfer regulations**

For transfer regulations see § 22 of the examination regulations.

**§ 19 – Date of validity**

(1) These regulations come into force the day after their publication in the Official Bulletin of the Humboldt University of Berlin.

(2) The existing regulations from 10 July, 2002 (Official Bulletin of the HU No. 29/2002), become invalid with these regulations coming into force, in consideration of § 18.

## Attachment: Program plan

<b>Specialized optional modules (Basics, 4 hours per week of the semester and 6 credits each)</b>	<b>Run of the module</b>	<b>Semester*</b>
Ecology of Fish	Classical	1
Applied Limnology (Limnology II)	Block	2
Systematics and Evolution of Fish	Classical	3
Physiology of Fish Reproduction	Classical	2
Fishery Engineering and Fishing Gear	Classical	1
Management of Fish Communities	Classical	3
Methods of Fisheries Science	Classical	1
Aquaculture of Cyprinids	Classical	1
Microbial Diseases (Fish Pathology I)	Classical	1
Fish Physiology and Nutrition	Classical	3
Special and Tropical Aquaculture	Classical	3

<b>Specialized optional modules (Extension, 4 hours per week of the semester and 6 credits each)</b>	<b>Run of the module</b>	<b>Semester*</b>
Microbiology	Classical	1
Bioenergetics of Fish	Classical	1
Ecology and Systematics of Plankton and Benthos	Classical	2
Phycology	Block	2
Tropical Freshwater Fish Communities	Classical	3
Water Chemistry	Classical	3
Fish Behaviour and Evolution	Classical	1
Aquaculture of Additional Species	Classical/Block	4
Fish as Product, Processing, and Marketing of Fish	Classical	2
European, World Sea and Inland Fisheries-Aims, Efficiency, Conflicts and Legal Regulation	Classical	2
Protection of Endangered Species	Classical	2
Fishery Businesses Economy	Classical	3
Recreational Fisheries (Angling)	Classical	4
Ornamental Fish Product Science	Classical	4
Fish and Fisheries Sampling Techniques	Classical	4
Aquaculture of Salmonids	Classical	1
Reproduction of Ornamental Fish	Classical	2
Parasitology (Fish Pathology II)	Classical	3
Genetics of Fish	Classical	4
Environmental Stress of Fish	Classical	4

\* The modules are offered every 4<sup>th</sup> semester, starting in the summer semester 2006.