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University of Tübingen exam regulations for the study program in Biochemistry culminating in an examination for a Master of Science (M.Sc.) degree

In accordance with §§ 19 (1)(2)(9), 34 (1) LGH (GBl. 2005, 1) as amended on 01.01.2005 and by article 1 of the law of 22 November 2011 (GBl. p. 501), the University of Tübingen Senate on 15.12.2011 passed the Special Provisions of these exam regulations for the study program in Biochemistry at the University of Tübingen culminating in an examination for a Master of Science (M.Sc.) degree.

Approved by the President and Vice-Chancellor on 08.05.2012.

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§ 1 Validity of General Provisions

The University of Tübingen exam regulations for the study program in Biochemistry culminating in an examination for a Master of Science (M.Sc.) degree – General Provisions – as amended are part of these exam regulations, insofar as no other special provisions have been made.

I. Goals, contents and structure of the program

§ 2 Contents and goals, prescribed minimum period for completion, volume, and start date of program

(1) ¹The Master's program is a research-oriented program following on from a Bachelor's degree in the same field. ²The M.Sc. in Biochemistry program allows students to obtain longer-term scientific qualifications aimed at obtaining and increasing knowledge in a systematic and critical way, and justifying a general scientifically-based occupational qualification for students in the field of Biochemistry. ³ Students are to obtain a thorough knowledge of the chemistry of life processes. ⁴ They are to be enabled to solve problems primarily in research, development, and management independently, creatively, and critically, using the methods and experimental options available in this subject.

(2) ¹The prescribed minimum period of study in the Biochemistry Master's program is set out in § 1 (5) of the General Provisions of these exam regulations. ²A total of 120 credit points must be obtained to successfully complete this M.Sc. degree program. ³The start of the program (winter or summer semester) is set out in the regulations governing admission and enrollment at the University of Tübingen, as amended.

(3) ¹A prerequisite for enrollment in this Master's program is a Bachelor's degree in the subject of Biochemistry or an equivalent degree with a grade of 3.0 or better. ²The board of examiners will decide on the equivalency of a degree.

(4) In this M.Sc. in Biochemistry, the language of instruction and examination is usually English; students are required to have adequate knowledge of the English language.

§ 3 Structure

(1) ¹The Master's degree program in Biochemistry is structured as a two-year program. ²It concludes with the Master's examination.

(2) ¹Students complete a program of 120 credit points. The program consists of the following modules:

recommended semester (subject to availability and change)	Module no.	Module description	Class type (subject to availability and change, see module handbook)	ECTS credits
1	1	Advanced Biochemistry	lecture	9
	2	Current Topics in Biochemistry	lecture, seminar	3
	3	Required elective from the syllabus of the Interfaculty Institute of Biochemistry or from the Plant Biochemistry section of the Center for Plant Molecular Biology (ZMBP). (A current list including module description is published annually.)	Lecture/ seminar and internship/ exercise	6
	4.1 and	Required elective with a workload totaling 12 LP from	Lecture/ seminar and internship/ exercise	12

	4.2	<ul style="list-style-type: none"> • the syllabus of the Interfaculty Institute of Biochemistry or from the Plant Biochemistry section of the Center for Plant Molecular Biology. • or from another institute. (Current lists including module descriptions are published annually.) 		
2	5	Research Project in Biochemistry I (from the syllabus of the Interfaculty Institute of Biochemistry or from the Plant Biochemistry section of the ZMBP)	Internship/ exercise, seminar	15
	6a	Research Project in Biochemistry II (from the syllabus of the Interfaculty Institute of Biochemistry or from the Plant Biochemistry section of the ZMBP or another institute*)	Internship/ exercise, seminar	15
3	6b and c	Research Project in Biochemistry II (2 modules from the syllabus of the Interfaculty Institute of Biochemistry or from the Plant Biochemistry section of the ZMBP or another institute*)	Internship/ exercise, seminar	30
4	7	Master Thesis Module	Internship/ exercise,	30

*Two of the modules 6a-6c may be completed outside Germany. If one or more of the modules 6a-6c is completed under a supervisor other than the one listed in the current module handbook, a second supervisor is to be called in from the Interfaculty Institute of Biochemistry or from the Biochemistry section of the ZMBP.

II. Teaching of material

§ 4 Types of classes within the modules

1Classes of the following types are scheduled:

1. Lectures
2. Seminars and colloquia
3. Exercises and practical experience/ laboratory internships
4. Tutorials

2For classes completely or primarily composed of elements of the class types set out in (1)(2-4), admission numbers may be limited, if training could not otherwise be guaranteed in accordance with the regulations or a limitation is necessary for other reasons of research, teaching or patient care. 3Subject-related techniques in particular are to be taught in these classes along with interdisciplinary, professionally-oriented qualifications. 4In addition, students are to have the opportunity to work in small groups to develop the ability to present the knowledge obtained both verbally and in written form. 5In addition, the right to participate in classes may be restricted or admission to part of the course may be made dependent on the completion of certain coursework, if training could not otherwise be guaranteed in accordance with the regulations or a limitation is necessary for other reasons of research, teaching or patient care.

§ 5 Languages of instruction and examination

1English is the language of instruction and examination in the Biochemistry Master's degree program. 2Classes and exams may be conducted in German following consultation with the student(s) to be examined.

§ 6 Types of assessment

Details of the assessed coursework required in each of the modules are set out in the module handbook.

III. Organization of program

§ 7 Volume of material

The required volume of study arises from the General Provisions of the exam regulations, the structure of the program and the modules - particularly from § 3 of the Special Provisions of the exam regulations.

IV. Master's examination and overall grade

§ 8 Nature and execution of Master's examination

In addition to the prerequisites set out in the General Provisions of these exam regulations, a prerequisite for admission to the Master's thesis process and other possible oral examinations to be completed in the final phase of the program under § 15 of the General Provisions is:

- regular and successful participation in the classes in the modules 3-6 scheduled for the first to third semesters of study under § 3.

§ 9 Master's thesis

Provisions governing the Master's thesis are set out in § 17 of the General Provisions of these exam regulations.

§ 10 Calculation of the Master's overall grade

The overall grade of the Master's examination is calculated on 34% of the grade for module 7, 34% of the grade for module 1, and 32% of the average (as weighted by credit points) of the grades of modules 3 and 4, taking account of the further provisions in § 21 of the General Provisions of these exam regulations.

V. Closing remarks

§ 11 Effective date

¹These exam regulations come into effect on the date of their publication in the University of Tübingen's official bulletin, the Amtliche Bekanntmachungen. ²Their first semester of validity is the winter semester 2012-13.

Tübingen, 08.05.2012

Professor Dr. Bernd Engler
President