

**Non-official version**  
**Study regulations**  
**for the Master Program**  
**Structural Chemistry and Spectroscopy**  
**at the University of Leipzig**

From May 3, 2018

Based on the Act on the Freedom of Higher Education Institutions in the Free State of Saxony (Sächsisches Hochschulfreiheitsgesetz - SächsHSFG) in the version published on January 15, 2013 (SächsGVBl. p. 3), last amended by the Act of 01 June 2022 (SächsGVBl. p. 381), the University of Leipzig issued the following study regulations on October 5, 2017.

As of March 7, 2019, 1st amendment to the study regulations was made (only changes mentioned in appendix)

April 16, 2020 2nd amendment to the study regulations (only changes in appendix)

June 3, 2021 3rd amendment to the study regulations (only changes in appendix)

4<sup>th</sup> and 5<sup>th</sup> amendment to the examination regulation are on the committee ways, but will be mentioned here (not a legally valid translation, serves only as a reading assistance)

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## **Appendix**

Study plan / Module overview table / Module descriptions<sup>1</sup>

### **§ 1 Scope**

Based on the examination regulations for the international Master's program Structural Chemistry and Spectroscopy, these study regulations govern the objectives, contents and structure of the international Master's program Structural Chemistry and Spectroscopy leading to the degree of Master of Science (M.Sc.).

### **§ 2 Admission requirements**

- (1) The general qualification for the research-oriented international Master's program Structural Chemistry and Spectroscopy is proven by a first professional university degree or by a degree from a state or state-recognized university of cooperative education.
- (2) Subject-specific admission requirements are:
  - a bachelor's degree in chemistry or in another natural science or engineering subject. In these subjects, there must be a total of at least 90 LP of comparable chemical content to the Bachelor's degree program in Chemistry at Leipzig University, which must include content of Inorganic Chemistry with at least 20 LP, Organic Chemistry with at least 20 LP, Physical Chemistry with at least 20 LP and Analytical Chemistry with at least 10 LP, as well as laboratory work in the areas of Organic and Inorganic Chemistry totaling at least 300 hours, or proof that this degree can be achieved by the beginning of the Master's program if the course of study is orderly.
  - English language skills according to the Common European Framework of Reference, level B2 or proof that these will be available by the start of the master's program.

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<sup>1</sup> Module descriptions are published exclusively in the electronic version of the Official Announcements on the homepage of the University of Leipzig.

- (3) The fulfillment of the prerequisites mentioned in paragraphs 1 and 2 shall be verified by the faculty, which issues a decision in this regard. The decision serves as confirmation of the corresponding admission requirements.
- (4) Negative decisions in accordance with paragraph 3 should be justified and provided with appealing instructions. An appeal against negative decisions may be submitted within one month after notification. The objection must be submitted in writing or as record transcript to the Faculty of Chemistry and Mineralogy, which will decide on it within a period of 3 months.

### **§ 3**

#### **Start of studies**

Students may start their studies at the beginning of the winter or summer semester.

### **§ 4**

#### **Duration of studies, scope of studies and language of instruction**

- (1) The standard period of study, including the master's thesis, is 4 semesters. The total workload for the Master's program Structural Chemistry and Spectroscopy corresponds to 120 credit points.
- (2) The study program can also be pursued on a part-time basis. Further details are set by the inter-faculty regulations concerning part-time studies, in the respective current version of regulations.

### **§ 5**

#### **Subjects and objectives of the studies**

- (1) The research-oriented international master's program in Structural Chemistry and Spectroscopy is a consecutive Master's degree program.
- (2) The international Master's program Structural Chemistry and Spectroscopy introduces advanced spectroscopic methods and focuses on the structure of chemical and biochemical compounds, especially biopolymers. Based on this deeper understanding of structural aspects, the focus is on structural elucidation and synthesis of defined complex structures.
- (3) In particular, students should be capable of independent scientific thinking and working, and of successful problem solving in various fields of

science and technology.

- (4) In the sense of chemistry as an interdisciplinary science, graduates should increasingly pay attention to the importance of connection with all areas of industry, business, government and society.
- (5) The Structural Chemistry and Spectroscopy program leads to the Master of Science degree as a subsequent professional qualification.

## **§ 6**

### **Forms of instruction**

- (1) Forms of instruction are:

- Lectures
- Seminars
- Exercises
- Practical courses and
- Colloquia.

In practical courses, students must experimentally implement the basic knowledge of chemical subjects acquired in lectures, seminars and exercises. A given task is to be solved within a given time using the methods and techniques known to them or described in the literature, in consultation with the supervisors/assistants of the practical course.

- (2) The people responsible for the module can decide that a learning platform is to be used for sharing of the course learning materials to accompany the face-to-face studies.

## **§ 7**

### **Tutorials**

Within the limits of available resources tutorials are held to support students.

## **§ 8**

### **Structure and contents of the program**

- (1) The Master's program has a scope of 120 credit points, out of which 30 credit points are allotted to the Master's thesis. Details on the number of modules can be found in the appendix.
- (2) As a rule, 60 credit points are earned in each academic year. Credit points

are awarded for passing module examinations. One credit point corresponds to a workload of 30 hours including attendance and self-study as well as preparation and execution of examinations. The total workload of the students should not exceed 1800 hours in the academic year including the lecture-free period. In the case of part-time study (§ 4 Abs. 2), the student workload is reduced according to the proportion of part-time study.

- (3) The program content is taught in modules. Modules contain definable subject areas that are related to each other in a subject- or topic-specific way. They include classes of different types that are aligned with each other and are concluded with module examinations. Modules designate a group of time-limited, self-contained, methodically or content-related classes. Modules are assigned credit points according to their workload. They are concluded with a module examination consisting of no more than 2 assessments, on the basis of which credit points are awarded. There are two basic forms of modules:
  1. Compulsory/obligatory modules: All students must complete these.
  2. Elective course and elective practical courses: Students can choose within a thematically defined area.
- (4) The language of instruction is English. Special emphasis is placed on subject-specific English skills. This ensures foreign and German students a joint education with an international orientation, facilitates academic exchange, international scientific contacts as well as future scientific work abroad.
- (5) The Master's thesis is usually written during the second year of study. It is associated with a workload of 30 credit points.

## **§ 9 Studying abroad**

- (1) A stay abroad is generally recommended. It is to be organized by the students themselves (with the support of the responsible institution); in particular, before starting, the students must ensure that the course work to be completed or the modules to be studied abroad are recognized by the responsible examination board in agreement with the respective institute and are credited to the degree program. The regulation of the Learning Agreement should be used primarily.
- (2) Study and examination achievements obtained abroad can be credited upon application in accordance to §16 of the examination regulations.

## **§ 10**

### **Modules of the Master's program**

The international Master's program in Structural Chemistry and Spectroscopy comprises the modules shown in the appendix.

## **§ 11**

### **Completion of the Master's program**

The Master's program is completed with the Master's examination, which consists of module examinations during the course of study and the Master's thesis.

## **§ 12**

### **Student Advisory Service**

- (1) General student advising is provided by the Central Student Advisory Service Office of the University of Leipzig. It covers questions about study opportunities, enrollment procedures and general students' matters.
- (2) Academic advising during the studies is provided by the respective advisors. It relates to questions of study organization.
- (3) Students should attend an advising session in their third semester if they have not earned any credit points by that time.

## **§ 13**

### **Effective date and release**

- (1) These study regulations come into force on April 1, 2023. They apply to all students enrolled in the Master's program Structural Chemistry and Spectroscopy.
- (2) It was adopted by the Faculty Council of the Faculty of Chemistry and Mineralogy on October 2022. They are published in the Official Announcements of the University of Leipzig.
- (3) Academic work completed in accordance with previously valid regulations version, prior to the effective date of this revision will be recognized.

Leipzig,

Professor Dr. Inés Obergfell  
Rector

## Explanations of placeholders in the appendices to study regulations:

### **General explanation**

Placeholder:

These are in the overview for selection options of the students. The scope of the modules to be selected (credit points) is indicated in each case.

Elective placeholders are to be filled from the attached catalog of elective modules in accordance with the requirements of the examination regulations.

### **Individual Explanation**

Elective placeholders:

These placeholders stand for the elective modules of the program, which can be studied to the extent indicated therein. Which elective modules are to be selected is regulated in the examination regulations.