

Announcements of the Justus Liebig University Giessen

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7.36.08 Nr. 6
Special Regulations for the Master's Degree Programme Sustainable
Chemistry

Special Regulations for the Master's Degree Programme Sustainable Chemistry of the Faculty 08 – Biology and Chemistry – of the Justus Liebig University Giessen

Of 21.06.2023

These regulations enter into force on the day after their announcement and apply from the winter semester 2024/2025.

	Faculty Council	Senate	Presiding Board	Announcement
Original Version	21.06.2023	13.09.2023	26.09.2023	17.10.2023
1st amendment	17.01.2024	07.02.2024	20.02.2024	28.02.2024

Based on § 50 para. 1 of the Hessian Higher Education Act of 14 December 2021, the faculty council of Faculty 08 – Biology and Chemistry – is issuing the following regulations on 21.06.2023:

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§ 1 (to § 1 of the General Regulations)

Complementing the General Regulations for the Bachelor's and Master's degree programmes (General Regulations) of Justus Liebig University Giessen dated 20 February 2019, these regulations govern the study and examinations in the Master's degree programme Sustainable Chemistry.

§ 2 Aim of the degree programme (to § 2 and 6 of the General Regulations)

(1) The Master's degree programme Sustainable Chemistry provides a professional qualification and comprises 4 semesters.

(2) The study programme can only be started in the winter semester.

(3) The study programme is taught in English.

§ 3 Academic degree (to § 3 of the General Regulations)

(1) The Faculty 08 - Biology and Chemistry - of the Justus Liebig University Giessen awards the academic degree "Master of Science" (abbreviated to "M. Sc.") upon successful completion of the programme.

§ 4 Admission to the Master's programme (to § 5 of the General Regulations)

(1) Admission to the Master's degree programme Sustainable Chemistry requires a Bachelor's degree with at least 180 ECTS credits that corresponds to the "Recommendations of the GDCh Study Commission for Bachelor's Degree Programmes in Chemistry at Universities". This is verified by the board of examiners.

(2) The board of examiners may recognise other degree programmes as equivalent following a case-by-case assessment. The admission may include a coursework of up to 30 CP, which must be completed within the first two semesters. These do not form part of the scope of the Master's degree programme.

(3) The board of examiners may make admission to the Master's degree programme dependent on passing an entrance examination in the cases described in paragraph 2. In this examination, the skills and knowledge required for the Master's degree programme are tested based on the "Recommendations of the GDCh Study Commission for the Bachelor's degree programme in Chemistry at Universities". The board of examiners shall schedule the entrance examination.

(4) The entrance examination is conducted by an examination committee appointed by the board of examiners. This examination committee consists of two professors. In the case of a written assignment, this is compiled and assessed by the board of examiners.

(5) Applicants will be invited to the entrance examination with at least three weeks' notice.

(6) The entrance examination should take place no later than six weeks after the application deadline.

§ 5 Language requirements (for § 5 of the General Regulations)

(1) For admission to the Master's degree programme Sustainable Chemistry, students must demonstrate very good English language skills at CEFR B2 level. These are proven by:

- a) TOEFL test ITB (internet-based test) with at least 80 points or IELTS test with at least a score of 6 in the academic test;
- b) Local university entrance qualification in one of the following countries: Australia, Ireland, Canada, New Zealand, USA, United Kingdom, South Africa;
- c) Completion of an English-language Bachelor's degree programme in one of the following countries: Australia, Ireland, Canada, New Zealand, USA, United Kingdom, South Africa;
- d) "UNICert II" certificate.

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The board of examiners decides on the acceptance of other language certificates.

§ 6 Structure of the degree programme (to §§ 6, 7 and 8 of the General Regulations)

(1) The Master's degree programme is divided into a one-year introductory phase and a one-year research phase. The introductory phase (first year of study) comprises compulsory modules totalling 36 CP and compulsory elective modules totalling 24 CP. The compulsory elective modules must be selected from the range of compulsory elective modules offered in the M.Sc. Chemistry Master's degree programme (see Appendix 2 of the Special Regulations for the Master's degree programme in Chemistry at Faculty 08 - Biology and Chemistry - at Justus Liebig University Giessen dated 16 February 2022, as amended). The research phase (second year of study) serves to specialise in the subject.

(2) The study plan is described in Appendix 1, the modules are described in Appendix 2.

(3) The thesis module comprises 30 CP.

(4) Any modules that have already been attended or taken as part of the Bachelor's degree programme in Chemistry, either exactly or with identical content, cannot be re-attended or credited as compulsory elective modules for the Master's degree programme Sustainable Chemistry.

(5) Students who are enrolled for a part-time degree programme discuss an individual study plan with the chairperson of the board of examiners.

§ 7 Requirements for participation and examination prerequisites (to § 8 and 17 of the General Regulations)

(1) Prerequisites for module and course participation are explicitly listed in the module descriptions.

(2) In the event that the participation requirements or previous examination results cannot be proven, the student will be deregistered from the module and re-registered in the next cycle.

§ 8 Module examinations (to §§ 8, 16, 18, 19, 22, 23 und 24 of the General Regulations)

(1) The examination requirements for initial and repeat examinations are regulated in the respective module description (Appendix 2). If an examination duration is not specified in the module description, the following applies: oral examination: 20-40 minutes, written examination: 90-120 minutes.

(2) Further forms of examination, in addition to those listed in the General Regulations are the thesis (with colloquium), written examination, oral examination and term paper, are:

- oral presentation: oral presentation of an elaborated issue, possibly with a computer presentation; processing time: 3 weeks;
- Report: text document that deals comprehensively with a set task or question; the module description may stipulate that this report is explained or presented orally; processing time: 3 weeks;
- Project work: Work on a defined task, e.g. programming a programme or a routine and preparing a report; processing time: 4 weeks;
- Exercise: working on a set task and explaining the processing steps, processing time: 1 week;
- Protocol (also final protocol): written description of the planning, exact implementation and results of experiments, observations and analyses, including an evaluation; processing time: 1 week.

(3) The examination may be conducted as a group examination with up to five examinees at the decision of the module coordinator, provided that the individual contribution of the examinee can be clearly defined and assessed.

(4) Registration for examinations, including repeat examinations, shall take place by attending the examination.

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§ 9 Thesis (to § 21 of the General Regulations)

- (1) The Master's thesis should generally be carried out in the subject area in which the laboratory project was taken. The laboratory project should be chosen from one of the two research modules.
- (2) The topic of the thesis is issued by the board of examiners. The workload for the thesis is 30 CP, which corresponds to 900 hours. The board of examiners determines the submission deadline for the thesis, considering other parallel modules and coursework. The topic must be written in such a way that it can be completed within the set deadline.
- (3) In justified cases, the board of examiners may extend the deadline by up to half of the processing time.
- (4) The thesis can generally be started after the modules of the first three semesters have been completed. The board of examiners decides on exceptions.

§ 10 Calculation of overall grade (to § 20 of the General Regulations)

- (1) The following modules are included in the calculation of the final grade: the 6 compulsory modules of the first year of study (SuC-MC1 to SuC-MC6) and the thesis module (SuC-MC11).
- (2) The overall grade is determined by calculating the sum of the weighted grades of the modules mentioned in paragraph 1 (grade of each module multiplied by the weighting factor g_i assigned to the module).
- (3) The overall grade is calculated as follows:

$$\text{Gesamtnote} = \sum_{i=1}^7 (\text{Note}_i \cdot g_i)$$

The weighting factors g_i are:

$g_i = 1/9$ for the compulsory modules of the 1st or 2nd semester

$g_i = 3/9$ for the Master's thesis

§ 11 Examination management system (to § 16 of the General Regulations)

- (1) The registration for all compulsory modules of the Master's degree programme Sustainable Chemistry in the examination administration system is automatic. Compulsory elective modules are registered by the students themselves via the examination administration system.
- (2) It is not possible to deregister from modules if examinations or partial examinations have already been taken.

§ 12 Entry into force

These regulations in the version of the 1st amendment resolution of 17th January 2024 enter into force on the day after their announcement and apply from the winter semester 2024/2025; until then, the previous provisions will continue to apply.