



6.40.101E Program-specific Entrance and Admission Provisions for the English-language Master's Degree Program in Chemistry in accordance with section 9 of the General Entrance and Admission Regulations for Consecutive and Mid-career Master's Degree Programs at Clausthal University of Technology from May 03, 2022

Preamble

The master's degree program in chemistry shall be aimed at applicants with a bachelor's degree or equivalent qualification in

- chemistry
- chemical engineering
- business chemistry
- materials science and engineering
- energy and materials physics

or a closely related subject.

The present provisions shall be supplementary to the General Master's Entrance and Admission Regulations.

1) Establishment of the procedure (section 1(2), third sentence, of the General Master's Entrance and Admission Regulations)

For the master's degree program specified above, an entrance procedure shall be conducted in accordance with section 3(1) of the General Master's Entrance and Admission Regulations.

2) Establishment of the program start date (section 2(1) of the General Master's Entrance and Admission Regulations)

Students can begin the degree program in the summer semester or the winter semester.

3) Establishment of the minimum language requirements – master's (section 3(1), third sentence, and sections 5 and 6 of the General Master's Entrance and Admission Regulations)

For the master's degree program specified above, the following enrollment prerequisite shall apply:

For the English-language master's degree program in chemistry specified above, a language level of B2 under the Common European Framework of Reference for Languages, or an equivalent examination as stipulated by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder*, shall be required for university entrance. As a rule, evidence of English skills shall be provided in the form of suitable certification not more

than two years old at the time of application for admission to TU Clausthal. Suitable certification shall be as follows:

- TOEFL iBT: at least 85 points or
- TOEIC: at least 865 in listening and reading, 170 in speaking and 165 in writing or
- IELTS: at least 6.5 or
- Cambridge University: First Certificate in English (FCE) grade C
- High school graduation, university degree or similar qualification from an English-language educational institution of one of the following countries: USA, UK, Canada, Ireland, Malta, Australia, New Zealand, South Africa

At the justified request of the applicant, evidence of the required language skills can be provided by completion of an aptitude test on the minimum language requirements. The aptitude test shall be conducted by the entrance review committee. The aptitude test shall be an assessment procedure intended for applicants to demonstrate that they possess the required language skills enabling them to begin and, as far as can be foreseen, successfully conclude the intended course of specialized study.

4) Establishment of the minimum subject-related requirements – master’s (section 3(1), third sentence, of the General Master’s Entrance and Admission Regulations)

The following learning, attested to by credit points, must have been acquired in the previous program of study:

- a) Foundations of non-chemical mathematics and/or science: 14 credit points
- b) Foundations of chemistry:
 - General and inorganic chemistry: 18 credit points, of which 6 for laboratory classes
 - Organic chemistry: 12 credit points, of which 5 for laboratory classes
 - Physical chemistry: 11 credit points, of which 3 for laboratory classes
- (c) Advanced knowledge of chemistry: 40 credit points, of which 10 for laboratory classes

The sum of credit points gained in the fields of mathematics and/or science, engineering, process engineering and materials science must come to at least 130.

Whether a previous program of study is suitable in subject matter shall be determined on the basis of the documents to be submitted. These shall be, in particular,

- module descriptions
- examination and program regulations
- program schedules

Applicants’ experience in laboratory classes needs to have given them specialist knowledge that guarantees safe handling of hazardous materials in alignment with the Occupational Health and Safety Act (*Arbeitsschutzgesetz*), the Chemicals Act (*Chemikaliengesetz*), the Hazardous Substances Ordinance (*Gefahrstoffverordnung*), the associated Technical Rules for Hazardous Substances (*Technische Regeln für Gefahrstoffe*) and the relevant rules stipulated by accident-insurance providers, such as GUV-SR 2005 on the handling of hazardous substances in universities. If any of this knowledge is not already in place when the master’s program is begun, it must be acquired at TU Clausthal in the context of a condition attached to admission.

5) Attachment of conditions (section 5(1) of the General Master’s Entrance and Admission Regulations)

Any conditions which may be attached to admission in accordance with section 5(1) of the General Master’s Entrance and Admission Regulations shall serve the aim of making up modules or elements of the bachelor’s degree program in chemistry that are lacking. The nature and scope of the conditions shall be determined by the entrance review committee.

The conditions must not exceed the value of 30 credit points in total. The entrance review committee shall determine whether the conditions have been fulfilled.

6) Aptitude test (section 5(4) of the General Master's Entrance and Admission Regulations)

The entrance review committee can conduct a 60-minute oral interview (aptitude test) to assess an applicant's knowledge in respect of the minimum subject-related requirements. Where appropriate, the conditions shall be set in the light of that interview. The chairperson of the committee shall preside over the interview; two other voting members shall assist. The outcome and proceedings shall be minuted. The members of the entrance review committee can, upon consultation, send a representative to the interview.

7) Entry into force

The present Program-specific Entrance and Admission Provisions shall enter into force on the day after their publication in the official journal of Clausthal University of Technology, the *Amtliches Verkündungsblatt*. Upon the entry in force of the present provisions, all previously applicable regulations governing entrance to the master's degree program specified above shall cease to apply.