Note: The English translation is a service. If any doubts occur, the German version is binding.

Regulations governing entry and admission to the consecutive Master's degree programme in Computational Sciences in Engineering (CSE) at TU Braunschweig

The Joint Commission entrusted by the Faculty of Architecture, Civil Engineering, and Environmental Sciences, the Faculty of Mechanical Engineering, the Faculty of Electrical Engineering, Information Technology, and Physics, and the Carl Friedrich Gauss Faculty with the performance of faculty tasks for the joint M.Sc. degree programme “Computational Sciences in Engineering” (CSE) has adopted the following regulations on November 5, 2025, in accordance with Section 18 (8) of the Lower Saxony Higher Education Act (NHG) and Section 7 of the Lower Saxony Higher Education Admission Act (NHZG):

1
Scope

(1) These regulations govern entry and admission to the consecutive Master's degree programme in Computational Sciences in Engineering, additional to the General Admission Regulations for Master's degree programmes at the Technische Universität Braunschweig (Allg.ZO-MA).

(2) The admission requirements are governed by Section 2.

(3) If admission to the Master's degree programme Computational Sciences in Engineering is restricted, the following applies: If more applicants meet the admission requirements for a restricted-admission degree programme than there are places available, places are awarded based on the results of the university's own selection procedure (Section 4). Where there are fewer applicants who satisfy the admission criteria than there are places available, the university's selection process is not used.

2
Admission requirements

(1) For entry to the consecutive Master's degree programme in Computational Sciences in Engineering (CSE), applicants must

a) hold a Bachelor's degree or equivalent qualification in a comparable prior degree pro-gramme in Engineering Sciences, Natural Sciences, Mathematics, Computer Science or a closely related degree programme, awarded either by a German university or by a university in a Bologna signatory state;

or

hold an equivalent qualification in one of the subjects listed above or in a comparable prior degree programme in Engineering Sciences, Natural Sciences, Mathematics, Computer Science or a closely related degree programme, awarded by a university in another country. The equivalence of degrees is assessed based on the recommendations from the Central Office for Foreign Education (http://anabin.kmk.org), which forms part of the Secretariat of the Standing Conference of the Ministers of Education and Cultural Affairs.

and

b) provide proof of subject-specific qualification as set out in Subsection (2)

and

c) provide proof of the necessary language skills in accordance with Subsection (5) and (6).

(2) The responsible admissions committee (Section 5) decide whether a prior degree programme is academically suitable or closely related.

In order to determine academic suitability, applicants shall prove their knowledge and expertise in the following areas:

a) the ability to work in a scientifically basic and method-oriented manner,
b) Computational Sciences, Mathematics, Mechanics, and Information Technology, which must be demonstrated as a part of a degree programme and/or other relevant documentation,
c) previous experience with regard to the interdisciplinary range of courses offered in Engineering, Mathematics, and Scientific Computing.

(3) Departing from Subsection (1) letter a), the entry requirements shall be provisionally met by applicants whose Bachelor's degree or equivalent qualification is pending at the time of application; who have accumulated at least 150 credits (83.3 %) on a degree programme with a total of 180 credit points, or at least 180 credits (85.7 %) on a degree programme with a total of 210 credit points; and who are expected to complete their Bachelor's degree or equivalent qualification no later than 31 March of the relevant winter semester. The average mark is calculated from the marks relevant for admission and this shall be taken into account in the selection process under Section 4 (1), whether or not a different result is achieved in the Bachelor's degree or final examination.

(4) Applicants who do not hold a German university entrance qualification and have not successfully completed at least two years of study in German must demonstrate German language skills at least at level A2 of the Common European Framework of Reference for Languages (CEFR) by means of a corresponding language certificate or comparable evidence.

(5) Applicants who have not obtained the necessary academic qualifications—i.e., either university entrance qualification or a Bachelor's degree (or equivalent) in accordance with Section 18 (8) NHG—at an English-speaking institution must have sufficient knowledge of the English language.

Sufficient English language skills shall be demonstrated by the following minimum performance in the subsequent internationally recognized tests or equivalent:

English test	Minimum score
Test of English as a Foreign Language (TOEFL), web based Test/IBT www.ets.org	88 points
International English Language Testing System (IELTS) www.ielts.org	Band 6.5 or higher
English Language Proficiency Report of the Language Centre of TU Braunschweig	At least two skills at B2 level and two skills at C1 level in a Language Centre (English Language Proficiency Report)
Equivalent language certificates may be recognized after comparative examination.	

Successful completion of one of the tests must not be more than three years prior to receipt of the application for admission to the Master's degree programme. Applicants who have successfully completed at least two years of study exclusively in English are exempt from the requirement to provide proof of a test upon request.

(6) The proofs according to Subsection (4) and (5) must be submitted by the time of enrolment; if both types of evidence are required, one of them must be submitted with the application for admission according to Section 2 (1).

3
Start of the programme and application deadline

(1) The Master's degree programme in Computational Sciences in Engineering starts every winter semester. Applications for admission to the Master's degree programme Computational Science Engineering must be submitted in accordance with the provisions of Section 3 and 4 of the General Regulations for Admission (Allg. ZO-MA).

The following deadlines apply to applications for admission to the first semester and to higher semesters

- by March 15 of each year for applications from foreign nationals and stateless persons who are not legally equivalent to German citizens and citizens of EU/EEA countries,
- by July 15 of each year for applications from all other persons.

The applications referred to sentence 2 shall be valid for admission to the programme only on the starting date specified. The university has no official obligation to verify information provided by the applicants.

(2) If admission to the Master's degree programme is restricted, the following also applies: For applications for admission made outside the ordinary application process and above set admission numbers, the provisions of Section 3 (5) of the Allg.ZO-MA and the deadlines of Section 4 (2) of the Allg.ZO-MA apply accordingly.

Applications under sentence 2 and 4 shall be valid for admission to the programme only on the starting date specified. The university has no official obligation to verify information provided by the applicants

These applications also apply only for admission to the programme only on the starting date specified. The university has no official obligation to verify information provided by the applicants.

(3) The following documents must be enclosed with the application in accordance with Subsection (1) sentence 2 – in certified German or English translation if the originals are not written in English or German:

a) the degree certificate for the course of study that qualifies the applicant for admission (or other equivalent qualification) or, if this is not yet available, a certificate of the credits earned, the credit points, the total credit points, and the average grade,) Bachelor's degree certificate or, where this has not been issued yet, a certificate stating the results, the credit points, the total number of credit points and the average mark
b) Curriculum vitae

c) Proof of particular specialized qualification as set out in Section 2 (2)
d) If necessary, proof of German language proficiency as set out in Section 2 (4)
e) If necessary, proof of English language proficiency as set out in Section 2 (5)

The requirements set out in sentence 1 shall apply also to applications for a place above admission capacity, without, however, affecting the additional requirements applicable in that process. The requirement for applying for a place above admission capacity is that the applicant has already applied for a place on the same degree programme within the specified admission number for the relevant semester in a timely and proper manner and has demonstrated that they meet the admission requirements. In particular, applicants must submit an affidavit stating that they have not received an unconditional or conditional offer of a place on the Master's programme in Computational Sciences in Engineering (CSE) or parts of that programme, or a related degree programme at a university in Germany or another member state of the European Union. The affidavit must state the applicant's nationality.

(4) Incomplete applications, applications that do not have the proper form, and applications that reach the university after the deadline specified shall not be considered for admission. Please note that the university does not return any documents submitted.

4
Selection and admission process

(1) If an internal university selection procedure is carried out in accordance with Section 1 (3) sentence 2, this shall be carried out by a selection committee (Section 5) in accordance with Sections 2 to 5.

(2) For foreign nationals and stateless persons who are not treated equally with German citizens and persons from EU/EEA countries in terms of admission law, a preliminary quota of 75 percent of the available study places shall be set aside.

(3) The study places in the preliminary quota according to Section 2 and the main quota shall be allocated in accordance with the following provisions.

(4) Admissions decisions are made as set out below. Points are awarded for the final mark as set out in Section 2 (1) item a) or for the average mark as set out in Section 2 (3), and for other criteria to be taken into account (Section 2 (2). A list of applicants for both application groups is drawn up ranked according to the total scores. Where there are several applicants with the same score, the score for particular specialised qualification determines the ranking (Section 2 (2)); after that, lots are drawn.

(5) The following points system shall apply to the awarding of points: Final grade or average grade (maximum 51 points):

Final or average grade	Points
1.0	51
1.1	49
1.2	47
1.3	45
1.4	43
1.5	41
1.6	39
1.7	37
1.8	35
1.9	33
2.0	31
2.1	29
2.2	27
2.3	25
2.4	23
2.5	21

Final or average grade	Points
2.6	19
2.7	17
2.8	15
2.9	13
3.0	11
3.1	10
3.2	09
3.3	08
3.4	07
3.5	06
3.6	05
3.7	04
3.8	03
3.9	02
4.0	01
> 4.0	00

Particular specialized qualification (up to 49 points): The awarding of points by the admissions committee is based on written proof of special aptitude for the degree programme:

a) the ability to work in a scientific or fundamental and method-based manner,
b) previous experience in the fields of Computational Science, Mathematics, Mechanics and Information Technology, as demonstrated in the course of studies and through documentation,
c) previous experience with regard to the interdisciplinary study programme in engineering, mathematics and scientific computing.

Experience gained outside a degree programme can, if proven, be given equal weight in the particular specialized qualification.

A maximum of 100 points can be achieved.

(6) Beyond these provisions, the provisions of the university's enrolment regulations that generally apply to enrolment remain unaffected. Applicants who do not present their degree certificate under Section 2 (3) by the end of the application period shall have their names removed from the register if they do not submit their Bachelor's degree certificate by March 31 of the winter semester, unless they can give proof that they are not responsible for this.

5
Admissions committee for the Master's degree programme in Computational Sciences in Engineering (CSE)

(1) For the preparation of their decision, the CSE Joint Committee forms an admissions committee (Admissions Panel).

(2) This admissions committee comprises at least four voting members who must be university lecturers or other university staff, and one student member with an advisory vote. Each of the departments participating in the degree programme shall be represented by one voting member. There must be at least one representative from among the university lecturers. Committee members are appointed by the CSE Joint Committee. The student member is appointed for a period of one year, all other members for a period of two years. Reappointments are permitted. The admissions committee shall be quorate if at least two voting members are present, including at least one member of the university lecturers' group.

(3) The admissions committee has the following responsibilities:

a) Checking the admission requirements in accordance with Section 2,
b) Deciding whether a degree programme is considered academically suitable in accordance with Section 2 (2),
c) in case of a necessary selection procedure pursuant to Section 4, notification of the ranking list compiled for the individual applicants to the Enrolment Office or the International Office, which issues the letter of admission or rejection to the applicant.

(4) When the admissions process is complete, the admissions committee shall report to the CSE Joint Committee on the experiences gained and may make recommendations for the development of the admissions process.

6
Notification of decisions, clearing, and process completion

(1) Applicants who can be offered a place on the programme are notified by the university in writing of the offer. This notification specifies a deadline by which applicants must accept or decline the offer in writing or electronically. Where an applicant's reply is not received by the deadline specified or in the proper form, the offer of a place lapses. Applicants must be informed of this legal consequence in the written notification.

(2) Applicants who cannot be offered a place on the programme are notified by the university electronically or in writing that their application is rejected with instructions on how to appeal. If a selection procedure in accordance with Section 4 with applicants who meet the admission requirements according to Section 2 has taken place beforehand and the applicant has participated in it, the applicant's position in the ranking and the position of the last applicant admitted in the respective group shall be listed. Eligible applicants who could not be admitted in the previous selection procedure for their group will take part in a succession procedure. Further notifications will only be issued in the event of admission.

(3) The clearing process is based on the ranking that results under Section 4 (4) sentence 2.

(4) After completion of the admission procedure, any remaining study places will be allocated by lottery (random selection) upon application. If the Computational Sciences in Engineering programme is not subject to admission restrictions and if, after completion of enrolment, further study places are available within the specified capacity, the university is free to conduct a lottery. The application must be submitted electronically via the application portal (TU connect); the admission requirements set out in Section 2 must be met. The application period begins four weeks before the start of the semester

and ends with the completion of the lottery procedure, but no later than the start of lectures; the university reserves the right to terminate the procedure earlier.

7
Admission to higher semesters

(1) Applicants for degree programmes with restricted admission must demonstrate that they have the level of achievement required for study in the higher semester.

(2) The prerequisite for admission to a higher semester is a degree programme completed in accordance with Section 2 (1) item a) and proof of knowledge and skills in accordance with Section 2 (1) item b) (including 20 credit points in the second semester) as well as the prerequisite in accordance with Section 2 (4) and (5). The selection committee (Section 5) may attach the proviso that any knowledge and skills that are lacking must be made up within two semesters after the start of the programme.

(3) The available study places in a higher semester with restricted admission shall be allocated to applicants in the following order:

a) Applicants for whom a rejection would constitute particular hardship because of their personal circumstances.

b.) Applicants who have studied or are studying on the same or a similar degree programme

I. at another German university or a university in another member state of the European Union or another signatory state to the Agreement on the European Economic Area or were enrolled,

II. with German citizenship or equivalent to German citizens in terms of admission law equivalent to German citizens for admission to a foreign university or were enrolled there,

III. have been admitted for the first semester and can be classified in a higher semester,

c.) Applicants giving other valid reasons.

(4) For the three case groups specified in sentence 1, admission decisions are made based on the social and particularly family-related and economic grounds crucial for a location choice. Where several applications have the same ranking, the average mark determines the decision. Where several similar cases remain, lots are drawn. The average mark is determined based on an applicant’s work to date.

(5) Notwithstanding Subsection (2) sentence 1, applicants who do not yet have their qualifying degree in accordance with Section 2 (3) at the time of application may also be admitted to the second semester if the other admission requirements in accordance with Section 2 are met. The Bachelor's or final degree certificate must be presented upon enrolment. If the Bachelor's degree (or other equivalent degree) has not yet been completed at the time of enrolment, the admission expires.

(6) If the Master's degree programme in Computational Science in Engineering has limited capacity, students who change the location may only be admitted to the next higher semester. The requirements of Subsection (1) must be fulfilled accordingly. However, if the standard period of study has already been exhausted, admission is not possible.

8
Entry into force

These regulations shall become effective on 01.02.2026. They regulate for the first time the admission procedure for the winter semester 2026/27.

At the same time, the previous regulations on access and admission to the Master's degree programme in Computational Sciences in Engineering (CSE) – university-published announcement dated 19.12.2024 (TU Gazette No. 1622) – shall cease to apply.

For admission to higher semesters, the regulations of the announcement mentioned in sentence 2 shall continue to apply for the summer semester 2026.