

Special Regulations on Admission and Enrolment for the Consecutive Master's Degree Program "Artificial Intelligence for Molecular Sciences" at Technische Universität Braunschweig

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On 23 September 2025, the Faculty Council of the Faculty of Life Sciences at Technische Universität Braunschweig adopted the following regulations in accordance with § 18 (8) NHG and § 7 NHZG:

§ 1 Scope of application

- (1) These regulations regulate access and admission to the consecutive Master's degree program "Artificial Intelligence for Molecular Sciences" in addition to the General Admission Regulations for Master's degree programs at the Technische Universität Braunschweig (Allg. ZO-MA), published on 21.03.2024 (TU-Verkündungsblatt Nr. 1552) or in the currently valid version.
- (2) The admission requirements are based on § 2.
- (3) The study places for the admission-restricted degree program are allocated according to the result of the university's own selection procedure (§ 4). This does not take place if there are not more applicants who fulfil the necessary admission requirements in accordance with paragraph 2 than there are places available.

§ 2 Admission requirements

- (1) The prerequisite for admission to the consecutive Master's degree program "Artificial Intelligence for Molecular Sciences" is that the applicant
 - a) 1. has obtained a Bachelor's degree or an equivalent degree in Chemistry, Food Chemistry, Biology, Biotechnology or in a suitable degree program with at least 180 credit points in accordance with paragraph 2, either at a German university or at a university belonging to one of the Bologna signatory states
 - or
 2. has obtained an equivalent degree in chemistry, food chemistry, biology, biotechnology or in a suitable degree program in accordance with paragraph 2 at another foreign university. Equivalence shall be determined in accordance with the assessment proposals of the Central Office for Foreign Education at the Secretariat of the Standing Conference of the Ministers of Education and Cultural Affairs (<https://anabin.kmk.org>).
- and
- b) provides evidence of language proficiency in accordance with subsection 4.

(2) A degree program justifying admission is subject-related suitable if

- i. at least 120 credit points have been acquired in natural science subjects, of which at least 100 credit points must be in chemistry, biology or biochemistry subjects. Of these, at least 4 credit points each must come from
 - a) three chemistry subjects: Inorganic Chemistry or Organic Chemistry or Physical Chemistry or Theoretical Chemistry/Computational Chemistry (12 CP in total)
 - or
 - b) three subjects from the life sciences: Biochemistry or Bioinformatics or Microbiology or Molecular Biology/Genetics or Cell Biology or (Molecular) Biotechnology (12 CP in total),
- ii. it includes basic knowledge in mathematics through mathematical modules totaling at least 4 CP,
- iii. it includes at least 15 CP in the context of laboratory practical courses and
- iv. it includes a Bachelor's or final thesis of at least 6 CP.

For degree programs that do not award credit points according to the European Credit Transfer and Accumulation System, the respective workload must correspond to the respective credit points.

The selection committee decides whether the previous degree program is suitable for the subject (§ 5). The determination of subject-related aptitude may be subject to the additional condition that any missing knowledge and competences must be completed within two semesters.

- (3) Notwithstanding subsection 1 letter a), applicants are also provisionally entitled to admission if they do not yet have a Bachelor's degree (or an equivalent degree) at the time of application, if at least 150 credit points (83.3%) have been achieved in the case of a degree program with a total number of credit points of 180 or at least 180 credit points (85.7%) in the case of a degree program with a total number of credit points of 210 and it is expected that the Bachelor's degree (or an equivalent degree) will be obtained by 31 March of the respective winter semester at the latest. An average grade is to be determined from the achievements in the degree program (or other degree) justifying admission by the end of the application period, which will be taken into account in the possible selection procedure according to § 4, regardless of whether the result of the Bachelor's examination (or final examination) differs from this.
- (4) Applicants who have not obtained their necessary study qualification - i.e. either the higher education entrance qualification or the Bachelor's degree (or an equivalent degree) in accordance with Section 18 (8) NHG - at an English-speaking institution must have sufficient knowledge of the English language. Sufficient English language skills must be demonstrated by the following minimum performance in the following internationally recognized tests or by equivalent tests:

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

Successful completion of one of the tests may not date back more than three years prior to receipt of the application for admission to the Master's degree program. Applicants who have successfully completed a degree program exclusively in English for at least two years are exempt from the obligation to provide proof of a test upon application.

(5) Proof of German language skills is not required.

§ 3 Start of the program, application for admission, application deadline

(1) The Master's degree program in Artificial Intelligence for Molecular Sciences begins in the winter semester. The application for admission to the Master's degree program "Artificial Intelligence for Molecular Sciences" is made in accordance with the provisions of §§ 3 and 4 of the General Regulations for Master's degree programs.

The following deadlines apply for applications for admission to the 1st semester and for higher semesters

- by 15 March of each year for applications from foreign nationals and stateless persons who are not equated with German citizens and persons from EU/EEA countries under admission law,
- by 15 July of each year for applications from all other persons.

Applications in accordance with sentence 2 only apply to the allocation of study places for the relevant application deadline. The university is not obliged to check the information provided by applicants ex officio.

(2) For applications for admission outside the procedure for the allocation of study places and the fixed admission numbers, the provisions of § 3 (5) of the General Regulations for the Allocation of Study Places and the deadlines of § 4 (2) of the General Regulations for the Allocation of Study Places apply accordingly. These applications also only apply to the allocation of study places for the relevant application deadline. Here too, the university is not obliged to check the applicant's details ex officio.

- (3) The following documents - in a certified German or English translation if the originals are not in English or German - must be attached to the application in accordance with subsection 1 sentence 2:
- a) the degree certificate of the degree program (or other degree) justifying admission in accordance with § 2 section 1 letter a) or - if this is not yet available - a certificate of achievements, the credit points, the total credit points and the average grade, in each case including a list of the modules completed (e.g. Diploma Supplement),
 - b) a curriculum vitae in tabular form and
 - c) if applicable, proof of English language proficiency in accordance with § 2 subsection 4.

The requirements according to sentence 1 also apply to out-of-capacity applications, but do not affect the further requirements applicable in these procedures. The prerequisite for an out-of-capacity application is that the applicant has already applied in due time and form for a study place in the same degree program for the relevant semester within the specified number of admissions and has provided evidence that the admission requirements have been met.

In particular, a written assurance must be submitted stating that neither a final nor a provisional full or partial admission for the Master's degree program "Artificial Intelligence for Molecular Sciences" or a related degree program for a university in the Federal Republic of Germany or in a member state of the European Union. The declaration must state the applicant's nationality.

- (4) Applications that are not complete, nor in due form or time will be excluded from the further procedure. The submitted documents remain with the university.

§ 4 Selection and admission procedure

- (1) If an internal university selection procedure takes place in accordance with § 1 subsection 3 Sentence 1, this is carried out by a selection committee (§ 5) in accordance with Paragraphs 2 to 4. Admission is generally granted for the Master's degree program "Artificial Intelligence for Molecular Sciences".
- (2) For foreign nationals and stateless persons who are not equated to German citizens and persons from EU/EEA countries under admission law, a preliminary quota of 40% of the available study places is formed.
- (3) The study places in the preliminary quota according to subsection 2 and the main quota are allocated according to the results of the university's own selection procedure in accordance with the following provisions.
- (4) The selection decisions are made as follows:
 - a) Based on the final grade according to § 2 subsection 1 or the average grade according to § 2 subsection 3, a ranking list is formed in each case, in which the list position '1' is awarded for the best grade. If the final grade or average grade is the same, the ranking will be decided by lot.

- b) In the order of the respective ranking list, the selection committee or the persons appointed by it (§ 5 subsection 2) will conduct selection interviews with the applicants in accordance with § 7. The number of participants in the selection interviews is limited to twice the number of study places to be allocated.
- c) The final or average grade (converted into points, A) is weighted in combination with the number of points (B) awarded in the selection interview in accordance with § 7 subsection 4. The weighting of the final or average grade to the selection interview is 60% to 40%.

The final grade or average grade is converted according to the following table:

Grade	1	1,1 - 1,2	1,3 - 1,6	1,7 - 1,9	2,0 - 2,2	2,3 - 2,6	2,7 - 2,9	3,0 - 3,2	3,3 - 3,6	3,7 - 3,9	4,0
points	10	9	8	7	6	5	4	3	2	1	0

The weighted combination is calculated using the following formula:

$$[(6 \times A) + (4 \times B)] / 10.$$

- d) On the basis of this calculation, the selection committee or the persons nominated by it form a new ranking list for both procedures, in which list position 1 is awarded for the highest number of points achieved. In the event of a tie, the final grade A determines the order. If there is still a tie between individual applicants, the ranking on the list is determined by drawing lots.
- (5) Otherwise, the generally applicable provisions of the university's enrolment regulations remain unaffected. Applicants who still have to catch up on missing knowledge and skills (e.g. modules) in accordance with § 2 subsection 2 sentence 4 will be exmatriculated upon expiry of the deadline if they have not completed the required coursework within the first two semesters and do not submit proof of this by 30 September of the following year and the applicant is demonstrably responsible for this. Applicants whose degree in accordance with § 2 subsection 3 was not yet available at the time of application will be exmatriculated on expiry of the deadline if they have not submitted the degree certificate justifying admission by 31 March of the respective winter semester, unless the applicant is demonstrably not responsible for this.

§ 5 Selection committee for the Master's degree program "Artificial Intelligence for Molecular Sciences"

- (1) The Faculty of Life Sciences forms a selection committee for the Master's degree program "Artificial Intelligence for Molecular Sciences" to prepare admission and make selection decisions

- (2) The selection committee consists of three voting members from the professorial group or the academic staff group and one member of the student group in an advisory capacity. At least one member must belong to the professorial group. The members and deputy members are appointed by the Faculty Council of the Faculty of Life Sciences. The term of office of the members is two years, that of the student member one year; reappointment is possible. The selection committee is quorate, if at least two members with voting rights are present.
- (3) The tasks of the selection committee are
- a) Examination of the admission requirements in accordance with § 2,
 - b) Deciding whether a degree program is to be regarded as suitable in accordance with § 2 subsection 2,
 - c) Deciding on ancillary provisions in accordance with § 2 subsection 2 sentence 4,
 - d) in the case of a university's own selection procedure in accordance with § 1 subsection 3 sentence 1, the organization of the selection interviews in accordance with § 7,
 - e) in the case of a necessary selection procedure, the creation of a ranking list of applicants eligible for admission in accordance with § 4 based on the results of the selection interviews and the final or average grade, and
 - f) notification of the ranking lists of applicants in accordance with letter e) to the Enrolment Office or the International Office, which issues the admission or rejection decision to the applicant.
- (4) The selection committee may nominate other suitable persons (without voting rights) who belong to the professorial group or the academic staff group to conduct the selection interviews.

§ 6 Notification of admission, supplementary admission procedure, conclusion of the procedure

- (1) Applicants who can be admitted will receive an electronic or written letter of admission from the university. This will specify a deadline by which the applicant must declare in writing or electronically whether she or he accepts the study place. If this declaration is not submitted in due time and form, the letter of admission becomes invalid. This legal consequence must be pointed out in the letter of admission.
- (2) Applicants who cannot be admitted will receive an electronic or written rejection letter including an appeal instruction. Applicants who fulfil the admission requirements and who have therefore generally undergone a selection procedure in accordance with § 4 shall be informed of the ranking achieved within the selection procedure for their group and the ranking of the last admitted applicant in this procedure.

Applicants entitled to admission who could not be admitted in the previous selection procedure will take part in the respective supplementary admission procedure for their group. Further notifications will only be issued in the event of admission.

- (3) The respective supplementary admission procedure is also carried out on the basis of the ranking list drawn up in accordance with § 4 subsection 4.
- (4) After the admission procedure has been completed, any remaining study places will be allocated by lottery upon application. The application must be submitted electronically via the application portal (TUconnect); the admission requirements according to § 2 must be fulfilled. The application period begins four weeks before the start of the semester and ends at the end of the lottery procedure, but no later than the start of lectures; the right to terminate the procedure earlier is reserved.

§ 7 The selection interview

- (1) The following principles apply to the selection interview: The selection interview will be conducted and assessed in English with the selection committee or with the persons nominated by it. It is usually conducted online via video conference from mid-April to the end of May for applications from persons who, under admission law, are not equivalent to German citizens and persons from EU/EEA countries, and from mid-July to the end of August for all other applicants. The exact dates and location of the interview will be announced in good time before the selection interviews begin. Applicants will be invited to the selection interview in good time, usually by email. The selection committee or the persons nominated by it will conduct individual interviews with the applicants, usually lasting 15 minutes. Protocols must be kept of the main questions and answers during the interview, which must be signed by the members of the selection committee or the persons appointed by it. The protocols must show the date and place of the interview, the names of the committee members or the persons nominated by them, the name of the applicant and the assessment.
- (2) If technical problems occur before or during the selection interviews for which TU Braunschweig or the selection committee is demonstrably responsible, applicants must be informed of an alternative date in good time. During the entire process, the selection committee must ensure compliance with the principles of data protection law with regard to the collection and processing of personal data in accordance with § 17 NHG and § 6 of the General ZO-MA in conjunction with the GDPR.
- (3) The selection committee or the persons appointed by it will conduct the selection interviews in English. The selection interview should show to what extent the applicant is suitable for the selected degree program. The interview covers the following aptitude parameters:
 1. Specific talents of the applicant that could have a positive impact on the degree program,

2. capability for scientific, fundamental- and method-oriented working
3. competence in basic scientific principles and the core knowledge gained in the first degree program.

Either 0 points, 1 point or 2 points are awarded for each of the parameters. These points correspond to the following assessment:

- 0 = not given or not convincingly presented,
- 1 = partially given or partially explained,
- 2 = given or convincingly presented.

Aptitude parameters 2 and 3 are weighted twice when awarding points. A total of up to 10 points can be awarded for the selection interview.

- (4) If an applicant fails to attend the interview without good cause, she or he will be excluded from the further procedure. If there is an important reason, the selection committee or the persons nominated by it will set a new date for the selection interview upon request. Proof of good cause and the request for a new date must be submitted to the selection committee or the persons appointed by it without delay, but at the latest within two days of the date initially set.

§ 8 Admission to higher semesters

- (1) Applicants for degree programs with restricted admission must prove that they have the required level of performance for the degree program in the higher semester.
- (2) The prerequisite for admission to a higher semester is a degree program completed in accordance with § 2 (1) (a) (or other corresponding degree) and the prerequisite in accordance with § 2 (4). The selection committee can determine whether the previous degree program is subject-relevant, with the additional condition that any missing knowledge and skills amounting to a maximum of 15 CP must be completed by the time the Master's thesis is registered.
- (3) The available study places in a higher admission-restricted semester are allocated to applicants in the following order:
 - a) for whom a refusal of admission for personal reasons would mean particular hardship,
 - b) who are or were enrolled in the same or a comparable degree program
 - aa) at another German university or a university in another member state of the European Union or another state party to the Agreement on the European Economic Area,

- bb) at a foreign university with German citizenship or equivalent to German citizens under admission law,
 - cc) have been admitted for the first semester and can be placed in a higher semester,
 - d) who claim other reasons.
- (4) Within each of the three case groups according to subsection 3, admission is determined by the social, in particular family and economic reasons that are relevant for the choice of location, in the case of equal ranking by the average grade, and ultimately by lot in the case of similar cases. The average grade is determined on the basis of the performance achieved to date.
- (5) Notwithstanding subsection 2, sentence 1, applicants who have not yet obtained their entrance qualification in accordance with § 2 subsection 3 by the application deadline may also be admitted to the second semester if the other admission requirements in accordance with § 2 are met. The Bachelor's or degree certificate must be submitted 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 program "Artificial Intelligence for Molecular Sciences" has restricted admissions, transfer students 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 completed, admission is not possible.

§ 9 Entry into force

- (1) These regulations enter into force on 01.10.2025. They apply for the first time to the application and admission procedure for the winter semester 2026/27. At the same time the previous regulations - published by the university on 21.05.2024 (TU-Verköndungsblatt No. 1567) – is repealed by the new regulation.
- (2) Notwithstanding § 2 (3), applicants who have completed at least 146 credit points (81.1%) in the case of a degree program with a total number of credit points of 180 or at least 170 credit points (81.0%) in the case of a degree program with a total number of credit points of 210, may also be admitted to the Master's degree program for the winter semester 2026/27. This regulation expires at the end of the admission procedure mentioned in sentence 1.