



**Examination and Study Regulations
for the Master's Programmes
Materials Chemistry and Catalysis,
Natural Products and Drug Chemistry
and Polymer Science
at the University of Bayreuth
dated 30 July 2026**

Pursuant to Art. 9 sentence 1 in conjunction with Art. 80 para. 1 sentence 1 and Art. 84 para. 2 sentence 1 of the Bavarian Higher Education Innovation Act (BayHIG), the University of Bayreuth hereby issues the following regulations:

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§ 1

General Examination and Study Regulations

¹Study in the master's programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science is governed by the General Examination and Study Regulations for Bachelor's and Master's Programmes at the University of Bayreuth (APSO). ²Supplementary and deviating provisions for study in the master's programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science are set out in these Regulations.

§ 2

Objectives and Structure of the Degree Programmes

(1) ¹The master's examination, as the final examination of university studies in the master's programme

- Materials Chemistry and Catalysis, determines whether the student has acquired in-depth subject-specific knowledge, particularly with regard to the synthesis, structure, properties and applications of various classes of materials and catalysis;
- Natural Products and Drug Chemistry determines whether the student has acquired in-depth subject-specific knowledge, particularly with regard to the synthesis, structure and biological activity of natural products, active substances and functional substances;
- Polymer Science determines whether the student has acquired in-depth subject-specific knowledge, particularly with regard to the synthesis, characterization, processing, properties and physical understanding of macromolecules

and is able to independently consider the problems of the discipline and address them using academic methods, as well as present research and the results obtained in a comprehensible manner. ²The master's programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science, including all examinations, are conducted in English. ³Upon successful completion of the master's examination, the University of Bayreuth, through the Faculty of Biology, Chemistry & Earth Sciences, awards the academic degree of Master of Science (abbreviated: M.Sc.).

(2) ¹Each of the master's programmes is to be completed as a full-time degree programme. ²The programmes may be commenced in the winter semester or the summer semester.

§ 3

Admission to the Programme

- (1) The requirements for admission to the master's programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science are:
 1. a university degree in one of the Bachelor's programmes Chemistry, Polymer & Colloid Chemistry, Biochemistry, Sustainable Energy & Chemistry, Physics, Materials Science & Engineering, Biology or Food & Health Sciences at the University of Bayreuth, or in a teaching-related Bachelor's programme at the University of Bayreuth with Chemistry as a major subject, or an equivalent degree;
 2. proof of English language proficiency at level B2 or higher of the Common European Framework of Reference for Languages for applicants who earned neither their higher education entrance qualification nor the first degree granting access to the programme in English. Applicants who do not meet this requirement but can provide proof of language proficiency at level B1+ or higher at the time of application shall be enrolled on the condition that they submit proof of the required language proficiency by the end of the second semester;
 3. proof of German language proficiency at level A1 or higher of the Common European Framework of Reference for Languages for applicants who earned neither their higher education entrance qualification nor the first degree granting access to the programme in German. Applicants who are unable to provide this proof shall be enrolled on the condition that they submit proof of the required language proficiency by the end of the second semester at the latest;
 4. determination of programme-specific aptitude in a process pursuant to Annex 2.
- (2) ¹The degrees must not differ substantially in terms of the competencies acquired from the degrees referred to in para. 1 no. 1. ²Where substantial differences are present that can be compensated for, applicants may be admitted subject to the condition that, in addition to the academic achievements required in the master's programme, they successfully complete coursework and examinations amounting to a maximum of 30 credit points from the Bachelor's programmes listed above by the end of the second semester at the latest; otherwise, the requirements for admission to the programme shall be deemed not to have been met. ³The provisions of the respective (subject-specific) examination and study regulations for the Bachelor's programmes listed above at the University of Bayreuth, as amended, shall apply. ⁴Art. 86 BayHIG shall apply to determining the eligibility for recognition of domestic and foreign degrees. ⁵These decisions shall be made by the board of examiners.
- (3) ¹If the certificate for the relevant first degree is not yet available, a confirmation listing the individual grades for all examinations and coursework completed by the application deadline must be submitted. ²These achievements must amount to at least 135 credit points in total. ³Applicants

who meet the requirements of sentence 2 and have successfully completed the process for determining programme-specific aptitude pursuant to Annex 2 shall be enrolled on the condition that they submit the certificate for the relevant first degree by the end of the first semester.

§ 4

Supplementary and Deviating Provisions

- (1) Supplements to § 2 para. 1 sentence 4 APSO:
 1. University professors from the Faculty of Mathematics, Physics & Computer Science and the Faculty of Engineering Science may also be elected as members of the board of examiners for the master's programme Polymer Science.
 2. In the event that a member is unable to serve or leaves the board, the Faculty Council shall, at the same time as the substitute representatives are elected, determine a fixed order in which the members of the board of examiners are to be represented or permanently replaced by the substitute representatives. If the chair or deputy chair leaves office, the Faculty Council shall elect a new member for the remainder of the term of office.
- (2) ¹In addition to § 6 APSO, additional examinations may be taken in the master's programme Polymer Science in the elective area Engineering Science beyond the required scope. ²There is no obligation to repeat failed additional examinations. ³If the last module to be taken into account causes the number of credit points in the elective area to be exceeded, the grade for that module shall be included in the calculation of the final grade only on a pro rata basis corresponding to the remaining credit points required. ⁴Any further examinations taken shall not be included in the calculation of the final grade.
- (3) Deviations from and supplements to § 31 APSO:
 1. Supplements to para. 2 sentence 2:
 - a) In the master's programme Polymer Science, topics for master's theses may also be assigned by university professors from the Faculty of Mathematics, Physics & Computer Science and the Faculty of Engineering Science who are authorized to administer examinations.
 - b) A topic for a master's thesis may be assigned to a student only after the student has earned at least 45 credit points in the programme; the student must provide evidence of this to the first reviewer.
 - c) With the approval of the board of examiners, the master's thesis may also be carried out outside the University of Bayreuth if it is supervised there by a person authorized to administer examinations pursuant to § 3 APSO and a university professor in the relevant subject area at the University of Bayreuth provides written confirmation, when the thesis is assigned, that they agree to serve as first reviewer.

2. In deviation from para. 4 sentence 5, the master's thesis must include an abstract in English and German.
 3. In addition to para. 5, at the request of the first reviewer, up to two additional typed, bound and paginated copies of the master's thesis must be submitted to the examiners.
 4. In addition to para. 7, the board of examiners may call upon an additional reviewer if at least one reviewer has assessed the thesis as "unsatisfactory" or if the grades differ by more than one grade.
 5. ¹In addition to the master's thesis, the content of the master's thesis shall be presented before the reviewers. ²The duration of the presentation shall be governed by § 9 para. 9 sentence 2 APSO. ³The performance shall be assessed as "passed" or "failed". ⁴If assessed as "failed", the presentation may be repeated once. ⁵The presentation shall not be included in the calculation of the final grade for the master's examination.
- (4) ¹In addition to § 32 APSO, the master's examination shall be deemed failed on the final attempt if, by the end of the fourth semester, a student has not earned at least 60 credit points for reasons for which the student is responsible. ²A notice concerning final failure shall be issued in accordance with § 2 para. 5 APSO in conjunction with Art. 41 of the Bavarian Administrative Procedure Act.

§ 5

Entry into Force

- (1) ¹These Regulations shall enter into force on 31 July 2026. ²They shall apply to students who commence one of these degree programmes from the summer semester 2027 onwards. ³All other students shall organize their studies in accordance with the previous Examination and Study Regulations for the Master's Programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science at the University of Bayreuth dated 15 September 2023 (AB UBT 2023/068), last amended by regulations dated 25 February 2026 (AB UBT 2026/009).
- (2) Upon entry into force of these Regulations, the Examination and Study Regulations for the Master's Programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science at the University of Bayreuth dated 15 September 2023 (AB UBT 2023/068), last amended by regulations dated 25 February 2026 (AB UBT 2026/009), shall cease to be in force, subject to the provision in para. 1 sentence 3.

Annex 1: Modules, Credit Points and Examinations

The module areas, respective modules, credit points (CP) and associated examinations for each of the master's programmes are listed below.

Deviations from and supplements to § 9 APSO:

Where academically necessary, written examinations (para. 3) or oral examinations (para. 6) shall be conducted in German (in deviation from § 2 para. 1 sentence 2); this shall be announced by the examiner.

Abbreviations:

	Vertical bars between forms of examination indicate possible alternatives.
+	Plus signs indicate several examination components that must be completed.
x/y	Fractions indicate the weighting with which the respective examination component is included in the module grade.
()	Round brackets group related examination components. They may be used to indicate alternative forms of an examination component or to define the division of an examination component into several parts.
*	Examination components marked with "*" are not included in the calculation of the module grade or final grade.
K	written examination
mP	oral examination
P	presentation
B	contribution
semA	assignments during the semester
sA	written assignment

a) Master's Programme Materials Chemistry and Catalysis

CO code	Module area Module	CP	Examination
	Basic Module Area Four modules must be selected, including at least one module from each of the subject areas "Inorganic Chemistry", "Colloids and Materials" and "Organic Chemistry and Macromolecular Materials". The fourth module may also be selected from Annex b or c.	28	
	Inorganic Chemistry		
Fak225679	Catalyst Design (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225681	High Performance Materials for Electrochemical Energy Systems (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225675	Homogeneous Catalysis (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225673	Solid-state Inorganic Materials: Nanochemistry (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225677	Solid-state Inorganic Materials: Properties and Applications (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
	Colloids and Materials		
Fak231062	Soft Matter and Colloid Characterization (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225711	Colloids and Interfaces (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak231063	(Photo)electrocatalytic Energy Conversion at Interfaces (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225715	Materials for Sensors, Catalysis and Energy Conversion (short practical course)	7	Portfolio examination:

CO code	Module area Module	CP	Examination
			(K mP) 5/7 + semA 2/7
	Organic Chemistry and Macromolecular Materials		
Fak225720	Biomaterials (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225724	High-performance and Specialty Polymers (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225722	Polymer Architectures and Functionality (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225719	Polymer Synthesis	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225717	Stereoselective Organic Synthesis (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
	Advanced Module Area Three modules worth 9 CP each must be selected. The subject areas from which they are selected are immaterial. If a module in the "Basic Module Area" has already been completed as a "short practical course", it may not subsequently be completed as a "long practical course". One of the three modules may also be selected from Annex b or c.	27	
	Inorganic Chemistry		
Fak225680	Catalyst Design (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225682	High Performance Materials for Electrochemical Energy Systems (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225676	Homogeneous Catalysis (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9

CO code	Module area Module	CP	Examination
Fak225674	Solid-state Inorganic Materials: Nanochemistry (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225678	Solid-state Inorganic Materials: Properties and Applications (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Colloids and Materials			
Fak231064	Soft Matter and Colloid Characterization (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225712	Colloids and Interfaces (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak231065	(Photo)electrocatalytic Energy Conversion at Inter- faces(long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225716	Materials for Sensors, Catalysis and Energy Conversion (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Organic Chemistry and Macromolecular Materials			
Fak225721	Biomaterials (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225725	High-performance and Specialty Polymers (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225723	Polymer Architectures and Functionality (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225718	Stereoselective Organic Synthesis (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9

CO code	Module area Module	CP	Examination
	Research Module Area One of the two Advanced Laboratory Modules may also be completed at a foreign higher education institution or as an industrial internship, subject to prior approval by the board of examiners or the chair of examiners.	35	
Fak225727	Advanced Laboratory I	15	semA
Fak225728	Advanced Laboratory II	15	semA
Fak225726	Research Proposal	5	Portfolio examination: P 2/5 + sA 3/5
	Master's Thesis	30	
Fak225729	Master's Thesis – Materials Chemistry and Catalysis	30	Master's thesis + p*
	TOTAL	120	

b) Master's Programme Natural Products and Drug Chemistry

CO code	Module area Module	CP	Examination
	Basic Module Area Four modules worth 7 CP each must be selected. One of the four modules may also be selected from Annex a or c.	28	
Fak225751	Biosynthesis of Natural Products	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225752	Catalysis and Sustainable Synthesis	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225759	Chemometrics: AI and ML in Chemistry	7	Portfolio examination: (K mP) 5/7 + B 2/7
Fak230313	Fundamentals of Advanced Organic Laboratory (short practical course)	7	semA
Fak225675	Homogeneous Catalysis (short practical course)	7	Portfolio examination:

CO code	Module area Module	CP	Examination
			(K mP) 5/7 + semA 2/7
Fak225758	Bioinformatics: Molecular Modelling	7	Portfolio examination: (K mP) + B*
Fak225717	Stereoselective Organic Synthesis (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225673	Solid-state Inorganic Materials: Nanochemistry (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
	Advanced Module Area Three modules worth 9 CP each must be selected. One of the three modules may also be selected from Annex a or c.	27	
Fak225755	Alkaloids – Biosynthesis and Total Synthesis	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225757	Analytics and Screening of Natural Products and Drugs	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak228572	Applied Computational Chemistry	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak228211	(Bio-)Analytics: Metrology and QM in the chemical laboratory	9	Portfolio examination: (K mP) 6/10 + B 3/10 + P 1/10
Fak228213	Biophysical Chemistry – Multidimensional NMR Spectroscopy of Biomacromolecules	9	Portfolio examination: (K mP) + B*
Fak225680	Catalyst Design (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak228251	Drug Design	9	Portfolio examination: (K mP) 5/9 + semA 4/9

CO code	Module area Module	CP	Examination
Fak230314	Fundamentals of Advanced Organic Laboratory (long practical course)	9	semA
	Research Module Area One of the two Research Modules may also be completed at a foreign higher education institution or as an industrial internship, subject to prior approval by the board of examiners or the chair of examiners.	35	
Fak225727	Advanced Laboratory I	15	semA
Fak225728	Advanced Laboratory II	15	semA
Fak225726	Research Proposal	5	Portfolio examination: P 2/5 + sA 3/5
	Master's Thesis	30	
Fak225767	Master's Thesis – Natural Products and Drug Chemistry	30	Master's thesis + p*
	TOTAL	120	

One module from the "Advanced Module Area" (9 CP), with the exception of the module "Fundamentals of Advanced Organic Laboratory (long practical course)", may be replaced by a module from the M.Sc. Biochemistry & Molecular Biology (core elective area "Subject Modules", areas Biochemistry and Molecular Biology).

One of the modules "Fundamentals of Advanced Organic Laboratory (short practical course)" or "Fundamentals of Advanced Organic Laboratory (long practical course)" may, once in the first semester of study, be taken in place of a module from the "Basic Module Area" (7 CP) or "Advanced Module Area" (9 CP).

c) Master's Programme Polymer Science

CO code	Module area Module	CP	Examination
	Basic Module Area Four modules worth 7 CP each must be selected. One of the four modules may also be selected from Annex a or b.	28	
Fak225720	Biomaterials (short practical course)	7	Portfolio examination:

CO code	Module area Module	CP	Examination
			(K mP) 5/7 + semA 2/7
Fak225752	Catalysis and Sustainable Synthesis	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225711	Colloids and Interfaces (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225675	Homogeneous Catalysis (short practical course)	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225770	Physical Chemistry of Polymers	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225772	Polymer Materials and Technology	7	Portfolio examination: (K mP) 5/7 + semA 2/7
Fak225773	Physics of Soft Matter	7	K mP
Fak225719	Polymer Synthesis	7	Portfolio examination: (K mP) 5/7 + semA 2/7
	Elective Area Engineering Science	0-7	
	Instead of one module from the "Basic Module Area", modules from the M.Sc. Materials Science & Engineering and M.Sc. Biofabrication amounting to a total of 7 CP may be taken. Prior approval of the module coordinator must be obtained.		see respective subject-specific examination and study regulations
	Advanced Module Area Three modules worth 9 CP each must be selected. One of the three modules may also be selected from Annex a or b.	27	
Fak231064	Soft Matter and Colloid Characterization (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225680	Catalyst Design (long practical course)	9	Portfolio examination:

CO code	Module area Module	CP	Examination
			(K mP) 5/9 + semA 4/9
Fak231066	Advanced Interfacial Chemistry	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225725	High-performance and Specialty Polymers (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225723	Polymer Architectures and Functionality (long practical course)	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225777	Polymer Engineering	9	Portfolio examination: (K mP) 5/9 + semA 4/9
Fak225778	Organic Semiconductors	9	Portfolio examination: (K mP) 2/3 + (semA mP) 1/3
Fak225779	Sustainable Polymer Chemistry and Polymer Materials	9	Portfolio examination: (K mP) 5/9 + semA 4/9
	Elective Area Engineering Science	0-9	
	Instead of one module from the "Advanced Module Area", modules from the M.Sc. Materials Science & Engineering and M.Sc. Biofabrication amounting to a total of 9 CP may be taken. Prior approval of the module coordinator must be obtained.		see respective subject-specific examination and study regulations
	Research Module Area One of the two Advanced Laboratory Modules may also be completed at a foreign higher education institution or as an industrial internship, subject to prior approval by the board of examiners or the chair of examiners.	35	
Fak225727	Advanced Laboratory I	15	semA
Fak225728	Advanced Laboratory II	15	semA
Fak225726	Research Proposal	5	Portfolio examination: P 2/5 + sA 3/5
	Master's Thesis	30	

CO code	Module area Module	CP	Examination
Fak225781	Master's Thesis – Polymer Science	30	Master's thesis + p*
	TOTAL	120	

Annex 2: Aptitude Assessment Process

1. Purpose of the Aptitude Assessment Process

¹Pursuant to Art. 90 para. 1 sentence 2 BayHIG, qualification for the master's programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science requires, in addition to the requirements pursuant to § 3 para. 1 nos. 1-3, proof of aptitude in accordance with the following provisions. ²The applicants' special qualifications and abilities should correspond to the broad professional fields of Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science. ³The individual aptitude parameters are:

- the ability to work in an academic, fundamentals-oriented and methods-oriented manner;
- existing subject-specific knowledge from the first degree in Chemistry, Polymer & Colloid Chemistry, Biochemistry, Sustainable Energy & Chemistry or related subjects;
- the ability to solve complex and difficult problems.

2. Board Responsible for the Aptitude Assessment Process

The respective board of examiners is responsible for preparing and conducting the aptitude assessment process pursuant to § 2 para. 1 APSO in conjunction with § 4 para. 1 no. 1 of these Regulations.

3. Process for Determining Aptitude

3.1 ¹The aptitude assessment process shall be conducted twice a year, in the summer and winter semesters. ²The documents required for admission to the aptitude assessment process must be uploaded online via the University of Bayreuth application portal. ³The documents must have been received electronically by the University of Bayreuth via the application portal by 15 June for the following winter semester and by 15 January of an academic year for the following summer semester (cut-off deadlines). ⁴Documents pursuant to nos. 3.2.4 and 3.2.5 may be submitted subsequently via the application portal by 15 July for the winter semester and by 15 February for the summer semester.

3.2 The following documents must be uploaded:

3.2.1 A cover letter (in English or German) containing a written statement of no more than two pages explaining the applicant's choice of the respective master's programme and setting out the competencies on the basis of which the applicant considers himself or herself particularly suited to the intended degree programme (see no. 5.1.1).

3.2.2 A tabular curriculum vitae as supplementary information.

3.2.3 A copy of the higher education entrance qualification as supplementary information.

3.2.4 ¹The certificate for the relevant first degree (e.g. Bachelor's certificate) with Diploma Supplement. ²If the certificate for the relevant first degree is not yet available, a confirmation listing the individual grades for all examinations and coursework completed by the application deadline must be submitted. ³This evidence of academic achievement must comprise assessment components amounting to at least 135 credit points in total. ⁴A list of modules in the relevant first degree for which no evidence of academic achievement can yet be submitted must be enclosed, stating the anticipated examination dates.

3.2.5 Where available, evidence of special qualifications pursuant to no. 5.1.1.1 for the respective degree programme (e.g. vocational training, internships, stays abroad, language skills).

3.2.6 Where applicable, a request for reasonable accommodations pursuant to § 12 APSO.

4. Admission to the Aptitude Assessment Process

4.1 Admission to the aptitude assessment process requires that the documents listed in no. 3.2 have been received by the University of Bayreuth via the application portal by the relevant deadline.

4.2 Applicants who meet the required conditions shall undergo the aptitude assessment process pursuant to no. 5.

4.3 Applicants who are not admitted shall receive a rejection notice; no. 6.2 shall apply accordingly.

5. Conduct of the Aptitude Assessment Process

5.1 First Stage of the Aptitude Assessment Process:

5.1.1 The board responsible for conducting the aptitude assessment process shall use the uploaded application documents to assess whether an applicant is suited to the master's programme on the basis of his or her demonstrated qualifications and the specific competencies described. Two members of the board shall review the documents independently of one another on a scale of 0 to 10 points, with 0 being the lowest and 10 the highest attainable result. The assessment shall be made by the board according to the following criteria:

5.1.1.1 The competencies demonstrated by the documents pursuant to nos. 3.2.1 and 3.2.5 shall be assessed with a maximum of 5.0 points. The criteria are the extent to which the applicant's previous academic and professional background demonstrates pronounced prior knowledge or competencies in the fields of Materials Chemistry and Catalysis, Natural Products and Drug Chem-

istry and Polymer Science and the extent to which the applicant demonstrates potential for interdisciplinary and international work. The content of the cover letter pursuant to no. 3.2.1 together with the evidence pursuant to no. 3.2.5 shall be assessed according to the following criteria, with the maximum attainable points indicated in brackets:

- linguistic expression and logical structure (max. 1 point);
- academic quality of the argumentation and references to specific research problems (max. 2 points);
- reasons for choosing the degree programme, with a clear description of prior knowledge or competencies (max. 2 points).

5.1.1.2 The subject-specific coursework and examinations from the relevant first degree pursuant to § 3 shall be assessed with a maximum of 5.0 points. Achievements in Chemistry, Polymer & Colloid Science, Biochemistry, Physics, Materials Science & Engineering, Biology or Food & Health Sciences shall be deemed subject-specific. Non-subject-specific achievements may be taken into account if the competencies demonstrated by them indicate that the applicant can be expected to achieve the objectives of the degree programme. The awarding of points is described in more detail in no. 9.

5.1.2 The applicant's score shall be calculated as the arithmetic mean of the individual assessments (nos. 5.1.1.1 and 5.1.1.2) by the board members. The score shall be rounded to one decimal place.

5.1.3 Applicants who achieve at least seven points shall receive confirmation that they have passed the aptitude assessment process. Applicants with an overall assessment of fewer than five points have failed the aptitude assessment process and shall receive a rejection notice; no. 6.2 shall apply accordingly.

5.2 Second Stage of the Aptitude Assessment Process:

5.2.1 The remaining applicants (five to fewer than seven points) shall be invited to an aptitude interview or online test (second stage of the aptitude assessment process). The date of the aptitude interview or online test shall be announced at least one week in advance. Anyone who does not appear for the scheduled appointment or online test shall be deemed rejected; no. 6.2 shall apply accordingly. If the applicant is prevented from participating in the aptitude interview or online test for reasons beyond his or her control, a make-up date shall be scheduled upon substantiated request no later than two weeks before the start of lectures.

5.2.2 Aptitude Interview or Online Test

5.2.2.1 The aptitude interview shall be conducted individually for each applicant.

The interview shall last at least 15 and no more than 30 minutes and is intended to show whether, on the basis of the applicant's knowledge and abilities, he or she can be expected to achieve the objectives of the degree programme. The aptitude interview shall be conducted by two members of the board. First, the applicant's academic and theoretical aptitude with regard to the requirements of the degree programme shall be assessed. The applicant should demonstrate that he or she is able to address academic questions in the course of the master's programme (25% of the assessment). Second, the applicant's prior knowledge or competencies in the field of the respective master's programme shall be assessed. The applicant should demonstrate that he or she has engaged with current research questions in Chemistry, Polymer & Colloid Science, Biochemistry, Physics, Materials Science & Engineering, Biology or Food & Health Sciences (25% of the assessment). In particular, the applicant must be able to identify or derive relationships using examples of molecular structure-reactivity relationships and structure-property relationships. The subject-specific achievements pursuant to no. 5.1.1.2 shall account for 50% of the assessment. If an assessment of at least 50% is achieved, the decision on the aptitude interview shall be "passed" or "passed subject to conditions"; if the assessment is below 50%, the decision shall be "failed". If the applicant receives the result "passed subject to conditions", conditions shall be imposed by analogy with § 3 para. 2 sentence 2.

5.2.2.2 ¹As an alternative to no. 5.2.2.1, an online test lasting at least 15 and no more than 30 minutes shall be conducted with the applicants. ²Questions from the fields of Chemistry, Polymer & Colloid Science, Biochemistry, Physics, Materials Science & Engineering, Biology or Food & Health Sciences must be answered (50% of the assessment). ³The subject-specific achievements pursuant to no. 5.1.1.2 shall account for 50% of the assessment. ⁴If an assessment of at least 50% is achieved, the decision on the online test shall be "passed" or "passed subject to conditions"; if the assessment is below 50%, the decision shall be "failed". ⁵If the applicant receives the result "passed subject to conditions", conditions shall be imposed by analogy with § 3 para. 2 sentence 2.

5.2.3 Applicants who have passed the second stage of the aptitude assessment process shall receive confirmation. The remaining applicants who have not passed the aptitude assessment process shall receive a rejection notice; no. 6.2 shall apply accordingly.

5.2.4 A written record shall be prepared of the aptitude interview, indicating the date, duration and location of the assessment, the names of the board members, the names of the applicants, the topics discussed, the assessments of the board members, the overall result, and the principal reasons for the assessment. The principal reasons and

topics may be listed in note form. The record shall be signed by the board members present.

6. Determination and Notification of the Result

- 6.1 The aptitude assessment process shall be documented; in particular, the decisions of the board pursuant to these Regulations and the overall result must be evident from the documentation.
- 6.2 ¹Applicants shall be notified of the result of the aptitude assessment process. ²Rejection notices shall include a rationale and information concerning legal remedies available and shall be signed by the chair of the board.
- 6.3 Admissions granted in the aptitude assessment process for the master's programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science shall remain valid for all subsequent applications to the respective degree programme, provided that the content and objectives of the degree programme have not changed so substantially that aptitude for the programme can no longer be demonstrated on the basis of an aptitude assessment process conducted at an earlier date.

7. Repeating the Process

Applicants who have not demonstrated aptitude for one of the master's programmes Materials Chemistry and Catalysis, Natural Products and Drug Chemistry and Polymer Science may register for the aptitude assessment process one more time.

8. Aptitude Assessment Process for Entry into Higher Semesters

For applicants wishing to enter a higher semester of study (students transferring from another higher education institution or lateral entrants), nos. 3 to 7 shall apply accordingly.

9. Assessment Key

¹The subject-specific coursework and examinations from the relevant first degree (no. 5.1.1.2) shall be included in the assessment in accordance with the following table. ²The performance level shall be based on the respective average grades or relative grades of the respective institution in the relevant subject and cohort:

Points	Performance level
5.0 - 4.6 points	outstanding performance

4.5 - 3.5 points	performance considerably above average requirements
3.4 - 2.4 points	performance above average requirements
2.3 - 1.3 points	performance meeting average requirements
1.2 - 0.6 points	performance which, despite deficiencies, still meets the requirements

Issued on the basis of the resolution of the Senate of the University of Bayreuth dated 15 July 2026 and the approval of the President of the University of Bayreuth dated 29 July 2026, Ref. A-3720.60 - I/1.

Bayreuth, 30 July 2026

[seal]

UNIVERSITY OF BAYREUTH
THE PRESIDENT
[signature]
Professor Dr. Dr. h. c. Stefan Leible

These Regulations were deposited at the University on 30 July 2026.

The deposit was announced by posting at the University on 30 July 2026.

The date of announcement is 30 July 2026.