

OFFICIAL TRANSLATION OF

Neufassung der Satzung über besondere Zugangsvoraussetzungen für die Studiengänge der Fakultät für Mathematik, Informatik und Naturwissenschaften (Amtliche Bekanntmachung Nr. 27 vom 9. Mai 2018)

**THIS TRANSLATION IS FOR INFORMATION ONLY –
ONLY THE GERMAN VERSION SHALL BE LEGALLY
VALID AND ENFORCEABLE!**

Revised Bylaws Regarding the Special Conditions of Admission for Degree Programs in the Faculty of Mathematics, Informatics and Natural Sciences

dated 4 April 2018

On 17 April 2018 in accordance with Section 108 subsection 1 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) dated 18 July 2001 (HmbGVBl p. 171) and last amended on 28 November 2017 (HmbGVBl. p. 365), the Executive University Board ratified the Revised Bylaws Regarding the Special Conditions of Admission for Degree Programs in the Faculty of Mathematics, Informatics and Natural Sciences that were adopted by the Faculty Council of the Faculty of Mathematics, Informatics and Natural Sciences on 4 April 2018 in accordance with Section 91 subsection 2 no. 1 HmbHG.

Section 1
Special conditions of admission

A. Bachelor's degree programs

1. Bachelor of Science in Business Mathematics

The following special conditions of admission apply to the Bachelor of Science in Business Mathematics:

Sufficient proficiency in English is required for the Bachelor of Science in Business Mathematics in order to reasonably understand course instruction and specialist literature (at least Level B1 of the Common European Framework of Reference for Languages (CEFR)). English proficiency may be demonstrated with any of the following:

- a) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 42 points or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 4.0 or
- c) a higher education entrance qualification for English-language higher education institutions
- d) comprehensive school transcripts of equivalent quality.

With respect to comprehensive school transcripts of equivalent quality, in particular proof of a German higher education entrance eligibility evincing at least three years of English instruction at school is recommended.

B. Master's degree programs

1. Master of Science in Informatics

The following special conditions of admission requirements apply to the Master of Science in Informatics:

1.1. A Bachelor of Science either in

- a) Informatics
- b) Information Systems
- c) Software Systems Development
- d) Human-Computer Interaction
- e) Computing in Science

from the Faculty of Mathematics, Informatics and Natural Sciences at Universität Hamburg or a degree from a comparable degree program, provided that applicants can substantiate at least 18 ECTS credits of completed coursework in mathematics and

72 ECTS credits in informatics comparable to the curriculum of the consecutive Bachelor of Science in Informatics.

1.2 Affirmation from the applicant that they have sufficient knowledge of English to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as circumstances require.

2. Master of Science in Bioinformatics

The following special conditions of admission apply to the Master of Science in Bioinformatics:

2.1 A bachelor's or comparable degree in a natural science, computer science, or medical-oriented subject, which awards at least 5 ECTS credits for each of at least three of the following subjects:

- a) chemistry
- b) biochemistry and/or molecular biology
- c) software development/programming
- d) algorithms and data structures or information systems
- e) methodological-oriented bioinformatics or cheminformatics

2.2 In accordance with 2.1, applicants who can substantiate within the scope of the undergraduate degree at least a minimum of only 5 ECTS credits of coursework for both prerequisites per 2.1 a and 2.1 b above, the prerequisites set forth in 2.1 c, d, or e may be substituted by successfully completing the module MBI-EIP Introduction to Computer Science and Programming.

There is a written examination at the conclusion of the module, which must be taken the first time it is scheduled after the conclusion of the module. If the written examination is not passed, it may be repeated once. In the event of an unexcused or excused absence, especially due to illness, Section 16 subsections 1 and 2 of the Revised Examination Regulations of the Faculty of Mathematics, Informatics and Natural Sciences for Master of Science Degree Programs (MSc) dated 11 April and 4 July 2012 shall apply correspondingly.

Admission shall be subject to the condition that the module be successfully completed at the latest within four weeks after the start of the lecture period. If the module is not successfully completed at the latest within four weeks after the start of the lecture period, admission shall be revoked.

2.3. Affirmation from the applicant that they have sufficient knowledge of English to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as circumstances require.

3. Master of Science in Geophysics

The following special conditions of admission apply to the Master of Science in Geophysics:

3.1 The consecutive Bachelor of Science in Geophysics and Oceanography from the Faculty of Mathematics, Informatics and Natural Sciences or a comparable degree program, or a bachelor's degree from another mathematics and physics-based degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the consecutive Bachelor of Science in Geophysics and Oceanography. Of these 90 ECTS credits, at least 45 must come from mathematics and physics courses.

3.2 Sufficient proficiency in English is required for the Master of Science in Geophysics in order to reasonably understand the technical language and specialist literature. Commensurate English proficiency means at least three years of instruction at a comprehensive school (comprehensive school transcripts or comparable proof of pertinent language skills).

4. Master of Science in Meteorology

The following special conditions of admission apply to the Master of Science in Meteorology:

4.1 The consecutive Bachelor of Science in Meteorology from the Faculty of Mathematics, Informatics and Natural Sciences or a comparable degree program, or a bachelor's degree from another mathematics and physics-based degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the consecutive Bachelor of Science in Meteorology.

4.2 Sufficient proficiency in English is required for the Master of Science in Meteorology in order to reasonably understand the technical language and specialist literature. Commensurate English proficiency means at least three years of instruction at a comprehensive school (comprehensive school transcripts or comparable proof of pertinent language skills).

5. Master of Science in Molecular Plant Science

The following special conditions of admission apply to the Master of Science in Molecular Plant Science:

5.1 A Bachelor of Science either in

- a) Biology or
- b) Molecular Life Sciences

from the Faculty of Mathematics, Informatics and Natural Sciences at Universität Hamburg

or

Any other bachelor's degree, provided that applicants substantiate that at least 74 ECTS credits of foundational coursework in the natural sciences has been completed in the following disciplines:

- a) mathematics (incl. physics and bioinformatics, if available) 6 ECTS credits
- b) chemistry (general, inorganic, organic, and physical chemistry as well as biochemistry) 8 ECTS credits
- c) biology 60 ECTS credits

Within these foundation courses, 30 ECTS credits must demonstrate knowledge of laboratory practice and skills in chemistry and biology acquired in laboratory internships. Corresponding credits earned in molecular biology may be used to make up for any credits lacking in mathematics and chemistry. These credits must be earned in addition to the 60 ECTS credits in biology. Furthermore, the final thesis must be an experimental project. This information must be evident from the documentation submitted. Where necessary, applicants may submit a separate letter detailing this information.

5.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated as follows:

- a) proof of proficiency in English at a B2 level in the Common European Framework of Reference for Languages through a course at an accredited institution or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0 or
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points or

- d) Cambridge Certificate of Advanced English (CAE), of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE) or
- e) a higher education degree in an English-speaking degree program or
- f) a higher education entrance qualification for English-language higher education institutions or
- g) a six-month stay in an English-speaking country or
- h) seven years of English instruction at a German school

6. Master of Science in Wood Science

The following special conditions of admission apply to the Master of Science in Wood Science (last admission period 2018/19):

The consecutive Bachelor of Science in Wood Science from Universität Hamburg or a comparable degree from another higher education institution, or another bachelor's degree wherein at least 75 ECTS credits of examination performance may receive credit in the Bachelor of Science in Wood Science.

7. Master of Science in Physics

The following special conditions of admission apply to the Master of Science in Physics:

7.1 The consecutive Bachelor of Science in Physics from Universität Hamburg or a comparable degree program at another higher education institution, or a bachelor's degree from another mathematics and physics-based degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the consecutive Bachelor of Science in Physics.

The selection committee for the Master of Science in Physics shall be responsible for rendering any decision with regard to comparability.

7.2 Affirmation from the applicant that they have sufficient knowledge of English to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as circumstances require.

8. Master of Science in Biology

The following special conditions of admission apply to the Master of Science in Biology:

8.1 The consecutive Bachelor of Science in Biology from Universität Hamburg or a comparable degree program, or a bachelor's degree from another degree program, provided that applicants can substantiate at least 60 ECTS credits of completed

coursework in biosciences comparable to the curriculum of the consecutive bachelor's degree program.

8.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated as follows:

- a) proof of proficiency in English at a B2 level in the Common European Framework of Reference for Languages through a course at an accredited institution or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0 or
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points or
- d) Cambridge Certificate of Advanced English (CAE), of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE) or
- e) a higher education degree in an English-speaking degree program or
- f) a higher education entrance qualification for English-language higher education institutions or
- g) a six-month stay in an English-speaking country or
- h) seven years of English instruction at a German school

9. Master of Science in Marine Ecosystem and Fisheries Science

The following special conditions of admission apply to the Master of Science in Marine Ecosystem and Fisheries Science:

9.1 The consecutive Bachelor of Science in Biology from Universität Hamburg or a comparable degree program, or a bachelor's degree from another degree program, provided that applicants can substantiate at least 60 ECTS credits of completed coursework in biology comparable to the curriculum of the consecutive bachelor's degree program.

9.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated as follows:

- a) proof of proficiency in English at a B2 level in the Common European Framework of Reference for Languages through a course at an accredited institution or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0 or
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points or

- d) Cambridge Certificate of Advanced English (CAE), of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE) or
- e) a higher education degree in an English-speaking degree program or
- f) a higher education entrance qualification for English-language higher education institutions or
- g) a six-month stay in an English-speaking country or
- h) seven years of English instruction at a German school

10. Master of Science in Ocean and Climate Physics

The following special conditions of admission apply to the Master of Science in Ocean and Climate Physics:

10.1 The Bachelor of Science in Geophysics and Oceanography from Universität Hamburg or a comparable degree program at another higher education institution, or a bachelor's degree from another mathematics or physics-based degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the consecutive Bachelor of Science in Geophysics and Oceanography.

10.2 Sufficient proficiency in English is required for the Master of Science in Ocean and Climate Physics in order to reasonably understand the technical language and specialist literature. Commensurate English proficiency means at least three years of instruction at a comprehensive school (comprehensive school transcripts or comparable proof of pertinent language skills).

11. Master of Science in Chemistry

The following special conditions of admission apply to the Master of Science in Chemistry:

11.1 The Bachelor of Science in Chemistry from Universität Hamburg or a comparable higher education degree program. The selection committee for the Master of Science in Chemistry is responsible for rendering any decision with regard to comparability.

11.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated as follows:

- a) proof of proficiency in English at a B2 level in the Common European Framework of Reference for Languages through a course at an accredited institution or

- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0 or
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points or
- d) Cambridge Certificate of Advanced English (CAE), of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE) or
- e) a higher education degree in an English-speaking degree program or
- f) a higher education entrance qualification for English-language higher education institutions or
- g) a six-month stay in an English-speaking country or
- h) seven years of English instruction at a German school

12. Master of Science in Molecular Life Sciences

The following special conditions of admission apply to the Master of Science in Molecular Life Sciences:

12.1 The Bachelor of Science in Molecular Life Sciences from Universität Hamburg or a comparable higher education degree program, or a bachelor's degree from another degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework, which is comparable to the curriculum of the Bachelor of Science in Molecular Life Sciences.

12.2 In special cases, admission may be possible under conditions that diverge from the requirements set forth in 12.1 (where appropriate, subject to specific conditions), provided that an applicant has a bachelor's degree and can substantiate that at least 70 ECTS credits are comparable to the curriculum of the Bachelor of Science in Molecular Life Sciences at Universität Hamburg as well as practical experience especially related to the degree program (e.g., pertinent internships, professional experience, or work produced). The selection committee for the Master of Science in Molecular Life Sciences shall render a decision in such a case.

12.3 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated as follows:

- a) proof of proficiency in English at a B2 level in the Common European Framework of Reference for Languages through a course at an accredited institution or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0 or

- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points or
- d) Cambridge Certificate of Advanced English (CAE), of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE) or
- e) a higher education degree in an English-speaking degree program or
- f) a higher education entrance qualification for English-language higher education institutions or
- g) a six-month stay in an English-speaking country or
- h) seven years of English instruction at a German school

13. Master of Science in Mathematics

The following special conditions of admission apply to the Master of Science in Mathematics:

13.1 The Bachelor of Science in Mathematics or Bachelor of Science in Business Mathematics from Universität Hamburg or a comparable degree program at another higher education institution, or a bachelor's degree from another mathematics degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the consecutive Bachelor of Science in Mathematics.

13.2 Sufficient proficiency in English is required for the Master of Science in Mathematics in order to reasonably understand course instruction and specialist literature. English proficiency may be demonstrated with any of the following:

- a) a degree from an English-language degree program or
- b) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 78 points or
- c) International English Language Testing System (IELTS) Academic Test with a score of at least 4.5 or
- d) a higher education entrance qualification for English-language higher education institutions or
- e) a six-month stay in an English-speaking country
- f) proof of a German qualification for admission to higher education evincing at least five years of English instruction at school or comparable certification.

14. Master of Science in Mathematical Physics

The following special conditions of admission apply to the Master of Science in Mathematical Physics:

14.1 The Bachelor of Science in Mathematics (with physics as a supplementary subject) or the Bachelor of Science in Physics from Universität Hamburg or a comparable degree program at another higher education institution, or a bachelor's degree from another mathematics or physics degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the Bachelor of Science in Mathematics or the Bachelor of Science in Physics.

14.2 Sufficient proficiency in English is required for the Master of Science in Mathematical Physics in order to reasonably understand course instruction and specialist literature. English proficiency may be demonstrated with any of the following:

- a) a degree from an English-language degree program or
- b) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 78 points or
- c) International English Language Testing System (IELTS) Academic Test with a score of at least 4.5 or
- d) a higher education entrance qualification for English-language higher education institutions or
- e) a six-month stay in an English-speaking country
- f) equivalent comprehensive school transcripts

Equivalent comprehensive school transcripts in this respect refer in particular to proof of a German higher education entrance eligibility evincing at least five years of English instruction at school.

15. Master of Science in Industrial Mathematics

The following special conditions of admission apply to the Master of Science in Industrial Mathematics:

15.1 A Bachelor of Science in one of the following: Mathematics (with technology, physics, or informatics as a supplementary subject) from Universität Hamburg, Technomathematics from Hamburg University of Technology, or a comparable degree program at another higher education institution

15.2 A bachelor's degree in engineering (with mathematics as an area of concentration) from Hamburg University of Technology or a comparable degree program at another higher education institution.

15.3 A Bachelor of Science from another mathematics or technology bachelor's degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the Bachelor of Science in Industrial Mathematics, the Bachelor of Science in Mathematics, or the Bachelor of Science in General Engineering Sciences with an area of concentration in mathematics.

15.4 Sufficient proficiency in English is required for the Master of Science in Industrial Mathematics in order to reasonably understand course instruction and specialist literature. English proficiency may be demonstrated with any of the following:

- a) a degree from an English-language degree program or
- b) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 78 points or
- c) International English Language Testing System (IELTS) Academic Test with a score of at least 4.5 or
- d) a higher education entrance qualification for English-language higher education institutions or
- e) a six-month stay in an English-speaking country
- f) equivalent comprehensive school transcripts

Equivalent comprehensive school transcripts in this respect refer in particular to proof of a German higher education entrance eligibility evincing at least five years of English instruction at school.

16. Master of Science in Business Mathematics

The following special conditions of admission apply to the Master of Science in Business Mathematics:

The Bachelor of Science in Business Mathematics (with business administration or economics as a supplementary subject), Business Administration, or Economics from Universität Hamburg or a comparable degree program at another higher education institution, or a bachelor's degree from another mathematics or economics degree program. In any event, applicants must substantiate at least 60 ECTS credits of completed coursework in mathematics courses and at least 20 ECTS credits of completed coursework in economics courses.

17. Master of Science in Information Systems

The following special conditions of admission apply to the Master of Science in Information Systems:

17.1 The Bachelor of Science in Information Systems from Universität Hamburg or a comparable degree program, or a bachelor's degree from another degree program, provided that applicants can substantiate at least 30 ECTS credits of completed coursework in both economics and informatics courses comparable to the curriculum of the Bachelor of Science in Information Systems.

17.2 Affirmation from the applicant that they have sufficient knowledge of English to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as circumstances require.

18. Master of Science in Geosciences

The following special conditions of admission apply to the Master of Science in Geosciences:

The Bachelor of Science in Geosciences from Universität Hamburg or a comparable degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses comparable to the curriculum of the consecutive Bachelor of Science in Geosciences.

19. Master of Science in Integrated Climate System Sciences

The following special conditions of admission apply to the Master of Science in Integrated Climate System Sciences:

19.1 The consecutive Bachelor of Science in Geophysics and Oceanography or the Bachelor of Science in Meteorology from the Faculty of Mathematics, Informatics and Natural Sciences at Universität Hamburg or a bachelor's degree from another mathematics, physics, and natural science degree program, provided that applicants can substantiate as a rule 90 ECTS credits of completed coursework in mathematics and physics courses.

19.2 Sufficient proficiency in English is required for the Master of Science in Integrated Climate System Sciences in order to reasonably understand course instruction and specialist literature. English proficiency may be demonstrated with any of the following:

- a) Common European Framework of Reference (CEFR) C1; or
- b) a Bachelor of Science from an English-language degree program or
- c) International English Language Testing System (IELTS) Academic Test with a score of at least 6.5 (sub-scores at least 6 points) or

- d) Test of English as a Foreign Language (TOEFL) (Internet-based Test IBT) with a score of at least 90 points (sub-scores of at least 20 points).

20. Master of Science in Geography

The following special conditions of admission apply to the Master of Science in Geography:

The Bachelor of Science in Geography from Universität Hamburg or a comparable degree program.

21. Master of Science in Intelligent Adaptive Systems

The following special conditions of admission apply to the Master of Science in Intelligent Adaptive Systems:

21.1 A Bachelor of Science either in

- a) Informatics
- b) Information Systems
- c) Software Systems Development
- d) Human-Computer Interaction
- e) Computing in Science

from the Faculty of Mathematics, Informatics and Natural Sciences at Universität Hamburg, a degree from another bachelor's degree program at Universität Hamburg, or a comparable degree from another higher education institution, provided that at least 60 ECTS credits of coursework has been completed in informatics and is comparable to the curriculum of a Bachelor of Science in Informatics from the Faculty of Mathematics, Informatics and Natural Sciences at Universität Hamburg.

The selection committee shall determine the comparability of any degree program.

21.2 Sufficient proficiency in English is required for the Master of Science in Intelligent Adaptive Systems in order to reasonably understand course instruction and specialist literature. English language skills can be demonstrated in one of the following ways:

- a) Common European Framework of Reference (CEFR)/TELC B2; or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 6.5 or
- c) Test of English as a Foreign Language (TOEFL) (Internet-based Test IBT) with a score of at least 90 points or
- d) Cambridge Certificate of Advanced English (CAE) or
- e) Cambridge Certificate of Proficiency in English (CPE)

or equivalent proof.

The selection committee shall determine the comparability of any proof proffered.

22. Master of Science in Cosmetic Science

The following special conditions of admission apply to the Master of Science in Cosmetic Science:

22.1 The Bachelor of Science in Vocational Training majoring in cosmetic science from Universität Hamburg, or a comparable degree program for the subject from another higher education institution

or

a Bachelor of Science in chemistry, biochemistry, food chemistry, pharmacy, or a comparable degree from a higher education institution

22.2 In special cases, admission may be possible in divergence from the requirements set forth in 22.1 (where appropriate, subject to specific conditions), provided that an applicant has a natural-science oriented bachelor's degree or comparable degree and at least one year of practical experience or 60 ECTS credits in cosmetic science and/or chemistry (e.g., pertinent internships, professional experience, or work produced).

The selection committee for the Master of Science in Cosmetic Science shall render decisions related to 22.1 and 22.2.

23. Master of Science in IT Management and Consulting

The following special conditions of admission apply to the Master of Science in IT Management and Consulting:

23.1 A Bachelor of Science either in

- a) Informatics
- b) Information Systems
- c) Software Systems Development
- d) Human-Computer Interaction
- e) Computing in Science

from the Faculty of Mathematics, Informatics and Natural Sciences at Universität Hamburg or a comparable degree from another higher education institution, provided that at least 60 ECTS credits of coursework has been completed in informatics.

23.2 Affirmation from the applicant that they have sufficient knowledge of English to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as circumstances require.

24. Master of Science in Food Chemistry

The following special conditions of admission apply to the Master of Science in Food Chemistry:

24.1 The Bachelor of Science in Food Chemistry from Universität Hamburg or a comparable higher education degree program. The selection committee for the Master of Science in Food Chemistry is responsible for rendering any decision with regard to comparability.

24.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated as follows:

- a) proof of proficiency in English at a B2 level in the Common European Framework of Reference for Languages through a course at an accredited institution or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0 or
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points or
- d) Cambridge Certificate of Advanced English (CAE), of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE) or
- e) a higher education degree in an English-speaking degree program or
- f) a higher education entrance qualification for English-language higher education institutions or
- g) a six-month stay in an English-speaking country or
- h) seven years of English instruction at a German school

25. Master of Science in Nanosciences

25.1 The following special conditions of admission apply to the Master of Science in Nanosciences:

The Bachelor of Science in Nanosciences from Universität Hamburg or a comparable degree program at another higher education institution

or

The Bachelor of Science in Physics from Universität Hamburg or a comparable degree program at another higher education institution in which the basic principles of chemistry and advanced knowledge of physical chemistry and/or nanochemistry must have been covered

or

The Bachelor of Science in Chemistry from Universität Hamburg or a comparable degree program from another university in which the fundamentals of physics and advanced knowledge of nanostructure physics and/or solid state physics must have been covered

The selection committee for the Master of Science in Nanosciences shall be responsible for rendering any decision with regard to comparability.

25.2 Affirmation from the applicant that they have sufficient knowledge of English to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as circumstances require.

26. Master of Science in Industrial Mathematics

The following special conditions of admission apply to the English-language Master of Science in Industrial Mathematics:

26.1 A Bachelor of Science from one of the following degree programs: Mathematics (with a minor in technology, physics, or informatics) from Universität Hamburg, Technomathematics from the Hamburg University of Technology, or a comparable degree program at another higher education institution

or

A bachelor's degree in engineering (with mathematics as an area of concentration) from Hamburg University of Technology or a comparable degree program at another higher education institution

or

A bachelor of science from another mathematics or technology bachelor's degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in courses that are comparable to the curriculum of the Bachelor of Science in Industrial Mathematics, the Bachelor of Science in Mathematics, or the Bachelor of Science in General Engineering Sciences with an area of concentration in mathematics

26.2 Sufficient proficiency in English is required for the Master of Science in Industrial Mathematics in order to reasonably understand course instruction and specialist literature. English proficiency may be demonstrated with any of the following:

- a) a degree from an English-language degree program or
- b) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 78 points or
- c) International English Language Testing System (IELTS) test with a score of at least 4.5 or
- d) a higher education entrance qualification for English-language higher education institutions or
- e) a six-month stay in an English-speaking country
- f) equivalent comprehensive school transcripts

Equivalent comprehensive school transcripts in this respect refer in particular to proof of a German higher education entrance eligibility evincing at least five years of English instruction at school.

27. Master of Science in Wood Science

The following special conditions of admission apply to the Master of Science in Wood Science (start Winter Semester 2019/20):

27.1. The Bachelor of Science in

- a) Bio-Resource Management
from the Faculty of Mathematics, Informatics and Natural Sciences at Universität Hamburg or
- b) Any other bachelor's degree, provided that at least 75 ECTS credits of coursework has been proven equivalent to the Bachelor of Science in Bio-Resource Management
- c) In special cases, admission may be possible in divergence from the degrees required in 27.1 a) and 27.1 b) above, provided that an applicant has a bachelor's degree and can additionally substantiate particular work related to the degree program (e.g., pertinent internships, professional experience, or work produced). Admission may be secured by submitting individual supplementary documents. The selection committee for the Master of Science shall be assigned the responsibility of rendering decisions concerning any special-case admission pursuant to sentence 1 and attachment of conditions pursuant to sentence 2.

27.2. Applicants must have adequate English-language skills. Adequate English-language proficiency may be demonstrated as follows:

- a) proof of proficiency in English at a B2 level in the Common European Framework of Reference for Languages through a course at an accredited institution or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0 or
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points or
- d) Cambridge Certificate of Advanced English (CAE), of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE) or
- e) a higher education degree in an English-speaking degree program or
- f) a higher education entrance qualification for English-language higher education institutions or
- g) a six-month stay in an English-speaking country or
- h) seven years of English instruction at a German school

Section 2

Compensation for disadvantage

Upon the submission of an application, appropriate compensation for disadvantage shall be granted, provided that an applicant can credibly demonstrate that they have been placed at a disadvantage compared to other applicants as he or she is unable to substantiate the admission requirements in the designated manner or within the designated period of time on account of a disability. The disability representative must be consulted pursuant to Section 88 subsection 3 HmbHG.

Section 3

Extended submission deadlines

In the event of outstanding undergraduate examinations, admission to a master's degree program may be applied for in accordance with the provisions set forth in Section 39 subsection 2 HmbHG, if, based on the course of studies to-date and in particular a student's examination performance to-date, it can be expected that a student will seasonably receive their degree by the end of the first semester of the master's degree program. Admission to the program may be permitted on the condition that the degree has been awarded by the end of the registration period for the second semester of the master's degree program.

Section 4
Effective date

These revised bylaws shall become effective on the day following publication in the official government gazette by Universität Hamburg.

Hamburg, 9 May 2018
Universität Hamburg