



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

OFFICIAL TRANSLATION OF
Satzung über besondere Zugangsvoraussetzungen für die
Studiengänge der Fakultät für Mathematik, Informatik und
Naturwissenschaften

Vom 18. Dezember 2024

(Amtliche Bekanntmachung Nr. 1 vom 17. Januar 2025)

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 18 December 2024

On 14 January 2025, in accordance with Section 108 subsection 1 of the Hamburg higher education act (Hamburgisches Hochschulgesetz—HmbHG) dated 18 July 2001 (HmbGVBl p. 171), last amended on 19 November 2024 (HmbGVBl. p. 594, 599), the University of Hamburg Executive Board ratified the Bylaws Regarding the Special Conditions of Admission for Degree Programs in the Faculty of Mathematics, Informatics and Natural Sciences adopted by the Faculty Council of the Faculty of Mathematics, Informatics and Natural Sciences on 18 December 2024 pursuant to Section 91 subsection 2 number 1 HmbHG.

Section 1
Special conditions of admission

A. Bachelor's degree programs

1. Bachelor of Science in Biology

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

2. Bachelor of Science in Bio-Resource Management

The following special conditions of admission apply to the Bachelor of Science in Bio-Resource Management:

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

3. Bachelor of Science in Chemistry

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

4. Bachelor of Science in Geography

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

5. Bachelor of Science in Geophysics and Oceanography

The following special conditions of admission apply to the Bachelor of Science in Geophysics and Oceanography:

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

6. Bachelor of Science in Geosciences

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

7. Bachelor of Science in Food Chemistry

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

8. Bachelor of Science in Marine Ecosystem and Fisheries Science

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

9. Bachelor of Science in Human-Computer Interaction

The following special conditions of admission apply to the Bachelor of Science in Human-Computer Interaction:

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

10. Bachelor of Science in Meteorology

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

11. Bachelor of Science in Molecular Life Sciences

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

12. Bachelor of Science in Nanosciences

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

Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

13. 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's degree program 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 4.0
- c) a higher education entrance qualification for English-language higher education institutions
- d) comprehensive school transcripts of equivalent quality; comprehensive school transcripts of equivalent quality also include higher education entrance qualifications from a German school, which evince at least 3 years of English instruction at school.

B. Master's degree programs

1. Master of Science in Atmospheric Science

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

1.1 Applicants must demonstrate successful completion of the Bachelor of Science in Meteorology from the Faculty of Mathematics, Informatics and Natural Sciences, of a comparable degree program, or of another natural science, mathematics, or technical engineering degree program, provided that applicants can substantiate at least 60 ECTS credits of completed coursework in courses comparable to the curriculum of the Bachelor of Science in Meteorology.

1.2 Sufficient proficiency in English is required for the Master of Science in Atmospheric Science in order to reasonably understand the technical language and specialist literature.

Adequate language proficiency may be demonstrated by any of the following:

- a) Common European Framework of Reference (CEFR) B2
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge First Certificate in English (FCE), Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE)
- e) seven years of English instruction at a German school

or equivalent proof. Comparability of proof is determined by the selection committee.

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 3 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

at least a minimum of at least 5 ECTS credits of coursework respectively.

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 success-

fully completing the module MBI-EIP Introduction to Computer Science and Programming. 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 c and 2.1 d above, the prerequisites set forth in 2.1 b may be substituted by successfully completing the module MBI-EIP Von der Informatik zur Bioinformatik – eine Einführung in die Molekularbiologie (From informatics to bioinformatics—introduction to molecular biology).

This module concludes with a written examination. Applicants must take the first scheduled examination. If an applicant does not pass, the applicant will be given only one additional opportunity to retake the written examination. 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 20 October 2021 apply *mutatis mutandis* in the event an applicant withdraws from or fails to attend an examination on the date scheduled; in particular due to an illness.

Admission is conditioned on the successful completion of the module MBI-EIP Introduction to Computer Science and Programming or the module MBI-EIB Informatik zur Bioinformatik – eine Einführung in die Molekularbiologie (From informatics to bioinformatics—introduction to molecular biology) within 4 weeks after the start of the lecture period. If the module is not successfully completed within 4 weeks after the start of the lecture period, the applicant will not be admitted to the program.

2.3 Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

3. Master of Science in Biology

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

3.1 a Bachelor of Science in Nanosciences from the University of Hamburg, or a comparable degree program from another higher education institution,

or

a bachelor's degree in another subject with at least 60 credits in biology classes comparable with the curriculum of the Bachelor of Science in Biology at the University of Hamburg. At least 40 percent thereof must have been acquired in the field of biodiversity, ecology and evolution, and the field of molecular biology and biotechnology. Coursework from other degree programs may be submitted to obtain the required amount of coursework. This also applies for university coursework completed in addition to the bachelor's degree program.

3.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

4. Master of Science in Business Mathematics

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

4.1 Applicants must demonstrate successful completion of the Bachelor of Science in Business Mathematics, the Bachelor of Science in Mathematics (with business administration or economics as a supplementary subject), the Bachelor of Science in Business Administration, the Bachelor of Science in Economics from the University of Hamburg, a comparable degree program from another higher education institution, or another mathematics or economics bachelor's 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.

4.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

5. Master of Science in Chemistry

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

5.1 The Bachelor of Science in Chemistry from the University of Hamburg, or a comparable degree program from a higher education institution. Comparability is decided by the selection committee for the Master of Science in Chemistry.

5.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

6. Master of Science in Data Science and Artificial Intelligence

The following special conditions of admission apply to the Master of Data Science and Artificial Intelligence:

6.1 A Bachelor of Science in one of the following:

- a) Informatics
- b) or Computing in Science from the Faculty of Mathematics, Informatics and Natural Sciences at the University of Hamburg, or
- c) a comparable degree program, provided applicants can substantiate at least 24 ECTS credits of completed coursework in mathematics, including at least a total of 6 ECTS credits in stochastics, as well as 60 ECTS credits in informatics comparable with the curriculum of the Bachelor of Science in Informatics at the Faculty of Mathematics, Informatics and Natural Sciences at the University of Hamburg

6.2 Sufficient proficiency in English is required in order to reasonably understand course instruction and specialist literature. English language skills may be demonstrated by any of the following:

- a) proof of proficiency in English at C1 level in the Common European Framework of Reference (CEFR)/TELC
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 6.5
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 90 points
- d) Cambridge Certificate of Advanced English (CAE)
- e) Cambridge Certificate of Proficiency in English (CPE) or
- f) seven years of English instruction at a German school

or equivalent proof. Comparability of proof is determined by the selection committee for the Master of Science in Data Science and Artificial Intelligence.

7. Master of Science in Geography

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

7.1 The Bachelor of Science in Geography from the University of Hamburg, or a comparable degree program.

7.2 Confirmation 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 Geophysics

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

8.1 Applicants must demonstrate successful completion of the Bachelor of Science in Geophysics and Oceanography from the Faculty of Mathematics, Informatics and Natural Sciences, a comparable degree program, or another mathematics and physics-based 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 Geophysics and Oceanography. Of these 90 ECTS credits, at least 45 must come from mathematics and physics courses. In addition, applicants must have also completed courses totaling at least 6 ECTS in programming. This is decided by the selection committee for the Master of Science in Geophysics.

8.2 Sufficient proficiency in English is required for the Master of Science in Geophysics in order to reasonably understand the technical language and specialist literature.

Adequate language proficiency may be demonstrated by any of the following:

- a) Common European Framework of Reference (CEFR) B2 or
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.5
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge First Certificate in English (FCE), Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE)
- e) seven years of English instruction at a German school

or equivalent proof. Comparability of proof is determined by the selection committee.

9. Master of Science in Geosciences

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

9.1 The Bachelor of Science in the Geosciences from the University of 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 Bachelor of Science in Geosciences.

9.2 Confirmation 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.

10. Master of Science in Informatics

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

10.1 A Bachelor of Science in one of the following:

- 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 the University of 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 Bachelor of Science in Informatics.

10.2 Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

11. 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:

11.1 Applicants must demonstrate successful completion of the Bachelor of Science in Geophysics and Oceanography, the Bachelor of Science in Meteorology from the Faculty of Mathematics, Informatics and Natural Sciences at the University of Hamburg, or another natural science bachelor's degree program, provided that applicants can substantiate as a rule 90 ECTS credits of completed coursework in the above degree programs.

11.2 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 by any of the following:

- a) Common European Framework of Reference (CEFR) C1 with subscores of at least C1 in all 4 areas of proficiency (speaking, reading, writing, and listening)
- b) a bachelor of science degree from a English-speaking degree program
- c) International English Language Testing System (IELTS) Academic Test with a score of at least 6.5 (subscores of at least 6 points) or
- d) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 90 points (subscores of at least 20 points)

12. Master of Science in Intelligent Adaptive Systems

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

12.1 A bachelor of science in one of the following:

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

Comparability of the degree program is determined by the selection committee.

12.2 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 may be demonstrated by any of the following:

- a) Common European Framework of Reference (CEFR)/TELC B2
 - b) International English Language Testing System (IELTS) Academic Test with a score of at least 6.5
 - c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 90 points
 - d) Cambridge Certificate of Advanced English (CAE)
 - e) Cambridge Certificate of Proficiency in English (CPE)
- or equivalent proof. Comparability of proof is determined by the selection committee.

13. 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:

13.1 A Bachelor of Science in one of the following:

- 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 the University of Hamburg or a comparable degree from another higher education institution, provided that at least 60 ECTS credits of coursework have been completed in informatics.

13.2 Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

14. Master of Science in Cosmetic Science

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

14.1 The Bachelor of Science in Teacher Training in Vocational Education majoring in cosmetic science from the University of Hamburg, or a comparable degree for the subject from another higher education institution,

or

a bachelor's degree in chemistry, biochemistry, food chemistry, pharmacy or a comparable degree from a higher education institution.

14.2 In special cases, admission may be possible in divergence from the requirements set forth in 14.1 (where appropriate, subject to specific conditions), provided that an applicant has a natural-science or comparable bachelor's degree in addition to 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). This must include knowledge of inorganic chemistry, organic chemistry, and biochemistry, totaling at least 20 ECTS credits.

The selection committee for cosmetic science decides matters related to 14.1 and 14.2.

15. Master of Science in Food Chemistry

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

15.1 The Bachelor of Science in Food Chemistry from the University of Hamburg, or a comparable degree from a higher education institution. Comparability is determined by the selection committee for the Master of Science in Food Chemistry.

15.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

16. 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:

16.1 Applicants must demonstrate successful completion of the Bachelor of Science in Marine Ecosystem and Fisheries Sciences or another bachelor's degree program, provided that applicants can substantiate at least 81 ECTS credits of completed coursework in natural science fundamentals from the following disciplines, which are comparable to the curriculum of the Bachelor of Science in Marine Ecosystem and Fisheries Science at the University of Hamburg:

- a) mathematics (incl. physics and bioinformatics, if available) totaling at least 6 ECTS credits and
- b) chemistry (general, inorganic, organic, and physical chemistry as well as biochemistry) totaling at least 6 ECTS credits and
- c) statistics totaling 9 ECTS credits and
- d) biology (including biological oceanography and fisheries science) totaling at least 60 ECTS credits

16.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

17. Master of Science in Mathematical Physics

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

17.1 Applicants must demonstrate successful completion of the Bachelor of Science in Mathematics (with physics as a supplementary subject), the Bachelor of Science in Physics from the University of Hamburg, a comparable degree program from another higher education institution, or another mathematics or physics bachelor's degree program, provided that applicants can substantiate at least 90 ECTS credits of completed coursework in mathematics and physics modules comparable to the curriculum of the Bachelor of Science in Mathematics (with physics as a supplementary subject) or the Bachelor of Science in Physics at the University of Hamburg.

Comparability is established where the content of completed coursework represents 24 ECTS credits in Mathematics for Students of Physics, an additional 8 ECTS credits in advanced mathematics modules, and coursework amounting to 16 ECTS credits in theoretical physics modules (particularly quantum mechanics).

17.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) a higher education degree in an English-language degree program
- e) a higher education entrance qualification for English-language higher education institutions

- f) a 6-month stay in an English-speaking country
- g) seven years of English instruction at a German school

18. Master of Science in Mathematics

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

18.1 Applicants must demonstrate successful completion of the Bachelor of Science in Mathematics, the Bachelor of Science in Business Mathematics from the University of Hamburg, a comparable degree program from another higher education institution, or another mathematics 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 Mathematics.

18.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

19. Master of Science in Molecular Life Sciences

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

19.1 Applicants must demonstrate successful completion of the Bachelor of Science in Molecular Life Sciences from the University of Hamburg, a comparable degree program from a higher education institution, 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.

19.2 In special cases, admission may be possible in divergence from the requirements set forth in 19.1 (where appropriate, subject to specific conditions) if an applicant can furnish a bachelor's degree and substantiate that at least 70 ECTS credits are comparable to the curriculum of the Bachelor of Science in Molecular Life Sciences at the University of Hamburg as well as practical experience especially related to the degree program (e.g., pertinent internships, professional experience, or work produced). Such cases are decided by the selection committee for the Master of Science in Molecular Life Sciences.

19.3 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)

- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

20. Master of Science in Molecular Plant Science

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

20.1 A Bachelor of Science in one of the following:

- a) Biology
- b) Molecular Life Sciences
- c) Biochemistry

from a university within the Federal Republic of Germany

or

- d) successful completion of another bachelor's degree program, where the following coursework can be demonstrated to the extent and discipline indicated:

1. Biology and biochemistry: 70 ECTS credits with 20 ECTS credits completed in university laboratory internships (in molecular biology or/and biochemistry)

2. A scientific experimental research project in the field of molecular biology as a final thesis of at least 6 ECTS credits

This information must be evident from the documentation submitted. Where necessary, applicants may submit separate documentation detailing this information. Coursework from other degree programs may be submitted to obtain the required amount of coursework. This also applies for university coursework completed in addition to the bachelor's degree program.

20.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

21. Master of Science in Nanosciences

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

21.1 The Bachelor of Science in Nanosciences from the University of Hamburg, or a comparable degree program from another higher education institution,

or

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

or

The Bachelor of Science in Chemistry from the University of 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 have been covered.

Comparability is determined by the selection committee for the Master of Science in Nanosciences.

21.2 Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

22. 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:

22.1 The Bachelor of Science in Geophysics and Oceanography from the University of Hamburg, a comparable degree program from 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 Bachelor of Science in Geophysics and Oceanography.

22.2 Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

23. Master of Science in Physics

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

23.1 Successful completion of the Bachelor of Science in Physics from the University of Hamburg or a comparable degree from a higher education institution. Comparability is determined by the selection committee for the Master of Science in Physics.

23.2 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school
- i) Equivalent proof

24. Master of Science in Physics

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

24.1 The Bachelor of Science in Physics from the University of Hamburg, a comparable degree program from another higher education institution, or a bachelor's degree from another math-

ematics 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 Bachelor of Science in Physics.

Comparability is determined by the selection committee for the Master of Science in Physics.

24.2 Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

25. Master of Science in Industrial Mathematics

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

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

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

25.3 Another bachelor's degree in mathematics or technology, 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 Engineering with an area of concentration in mathematics.

25.4 Applicants must have adequate English-language skills. Adequate language proficiency may be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

26. Master of Science in Information Systems

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

26.1 The Bachelor of Science in Information Systems from the University of Hamburg, 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.

26.2 Confirmation from the applicant that they have sufficient English proficiency to follow classes in English, read specialist literature, and take attendant oral and written examinations in English, as required.

27. Master of Science in Wood Science

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

27.1 Applicants must demonstrate successful completion of the Bachelor of Science in Bio-Resource Management from the Faculty of Mathematics, Informatics and Natural Sciences at the University of Hamburg, or another natural science bachelor's degree program, provided that applicants can substantiate as a rule 75 ECTS credits of completed coursework equivalent to the courses in the Bachelor of Science in Bio-Resource Management.

In special cases, admission may be possible in divergence from the requisite degrees set forth in 27.1 letters a and b, provided an applicant has a bachelor's degree and can substantiate supplemental related practical experience (e.g., pertinent internships, professional experience, or work produced). Admission may be subject to specific conditions.

The master's degree program selection committee is responsible for deciding matters related to admission in special cases pursuant to sentence 1 and for establishing conditions pursuant to sentence 2.

27.2 Applicants must have adequate English-language skills. Adequate English-language proficiency can be demonstrated by any of the following:

- 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
- b) International English Language Testing System (IELTS) Academic Test with a score of at least 5.0
- c) Test of English as a Foreign Language (TOEFL) internet-based test with a score of at least 72 points
- d) Cambridge Certificate of Advanced English (CAE), Cambridge Certificate of Proficiency in English (CPE), Higher Business English Certificate (BEC), First Certificate in English (FCE)
- e) a higher education degree in an English-language degree program
- f) a higher education entrance qualification for English-language higher education institutions
- g) a 6-month stay in an English-speaking country
- h) seven years of English instruction at a German school

Section 2

Reasonable accommodations

Reasonable accommodations will be granted on application, provided an applicant can credibly demonstrate they have been placed at a disadvantage compared to other applicants due to an inability to substantiate the admission requirements in the designated manner or within the designated period of time on account of a disability. The disability representative pursuant to Section 88 subsection 3 HmbHG must be consulted.

Section 3

Extended submission deadlines

If an applicant still has outstanding examinations that must be completed in order to acquire their first higher education degree, they may nevertheless apply for admission to a master's degree program pursuant to the provisions set forth in Section 39 subsection 2 HmbHG if, based on the course of studies and in particular on an applicant's examination performance

to date, it can be expected that the applicant will reasonably receive their degree by the end of the first semester of the master's degree program. In master's degree programs for which early deadlines for international master's degree programs do not apply, this is generally to be expected if no more than 30 ECTS credits are missing toward the first professional degree. The other ECTS credits must be subsequently completed and evidence provided. The Master of Science in Biology requires at least 150 ECTS credits have been earned and demonstrated in the course of the bachelor's degree program. Only completed modules will be counted toward this total. Admission to the program may be permitted on the condition that the degree will have been awarded by the end of the reenrollment period for the second semester of the master's degree program.

Section 4 **Effective date**

These revised bylaws become effective on the day following official publication by the University of Hamburg.

Hamburg, 17 January 2025
University of Hamburg