

Appendix

To the Programme Regulations 2011 of the
Joint Master's degree programme in Computational Biology and Bioinformatics

31 August 2010 (version: 1 November 2011)

Applies to students who commence the degree programme in Autumn Semester 2011 or later.

This is an English translation only. The original German version is the legally binding document.

This appendix sets out the prerequisites for and further details regarding admission to the Joint Master's degree programme in Computational Biology and Bioinformatics. It supplements the stipulations of the Admission Regulations of ETH Zurich and the Directive on Admission to Master's Degree Programmes.

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1 Profile of requirements

Policy

For admission to the Joint Master's degree programme in CBB (subsequently 'the degree programme') all of the following prerequisites must be satisfied.

1.1 Degree qualifications

¹ Admission to the degree programme presupposes a university Bachelor's degree comprising at least 180 ECTS⁽¹⁾ credits, an equivalent university degree, or a Bachelor's degree from a Swiss university of applied sciences⁽²⁾ in a technical or natural sciences discipline the content of which – also with regard to any additional academic requirements within the given framework – satisfies the pertaining academic and performance admission prerequisites.

² Said technical and natural science disciplines include, in particular:

- Applied Biosciences
- Biochemistry
- Biology
- Biotechnology
- Chemistry
- Chemical Engineering
- Electrical Engineering
- Computer Science
- Mechanical Engineering
- Materials Science
- Mathematics
- Microtechnology
- Pharmaceutical Sciences
- Physics
- Computational Science and Engineering

³ A Bachelor's degree qualifies its holder for admission to an ETH Master's degree programme only if it also qualifies said holder to enter, without additional requirements, the desired Master's degree programme within the university system where the Bachelor's degree was acquired. The Rector may also demand proof of this, determining whether such proof must come from the home university or from another university in the country where the Bachelor's degree was acquired.

¹ ECTS: European Credit Transfer System. Credits describe the average time expended to achieve a learning goal. One credit corresponds to ca. 30 hours of work.

² A Diploma from a Swiss university of applied sciences is considered equivalent to a Bachelor's degree in the same discipline. A Bachelor's degree from a German or Austrian university of applied sciences is considered equivalent to a Bachelor's degree from a Swiss university of applied sciences.

1.2 Academic prerequisites

¹ Attendance of the degree programme presupposes basic knowledge and competences in technical and natural sciences which must in content, scope and quality be equivalent to those covered in the ETH Zurich or University of Zurich (UZH) Bachelor's degree programmes in the disciplines listed in Section 1.1 (discipline requirements profile).

² The **discipline requirements profile** set out below comprises **110 ECTS credits** in total and is based on knowledge and skills covered in the ETH Zurich or University of Zurich Bachelor's degree programmes in the disciplines listed in Section 1.1. This includes training in the relevant methodological scientific thinking and experimental skills.

³ If the academic prerequisites for admission are not completely satisfied, admission may be granted subject to the acquisition of the missing knowledge and competences in the form of additional credits (admission with additional requirements). Details regarding the fulfilment of these additional requirements are set out in Section 4.

⁴ Admission to the degree programme is not possible if the academic gaps in the candidate's background are too extensive. For details applying to persons with a university qualification / a qualification from a university of applied sciences see Sections 2.1 and 2.2, respectively.

Discipline requirements profile

The discipline requirements profile is structured in two parts, as follows. Details regarding the content of the corresponding course units are published in the ETH Zurich Course Catalogue (www.vvz.ethz.ch).

Part 1: Basic knowledge

Part 1 comprises 80 ECTS credits and covers basic knowledge and competences in the disciplines of Natural Sciences, Mathematics, Physics, Computer Science and Engineering.

Part 2: Subject-specific knowledge and skills

Part 2 comprises 30 credits and covers subject-specific knowledge and skills from the disciplines Computer Science, Biology and Mathematics which draw on the following areas:

Bioinformatics, Algorithms and Data Structures, Programming, Statistics, Cell Biology and Molecular Biology.

1.3 Language prerequisites

¹ The teaching language of the degree programme is English.

² For admission to the degree programme, proof of sufficient knowledge of English (level C1)³ must be provided.

³ Applicants to the degree programme who hold a Bachelor's degree from a university of applied sciences must, according to the pertaining additional requirements (see Section 2.2, Subsection 2), also supply proof of sufficient knowledge of German (level C1).

⁴ Any required language certificates must be submitted before entry to the degree programme at the latest.

1.4 Performance prerequisites

Admission to the degree programme presupposes a very good study performance record in the preceding course of studies, in particular with regard to Part 1 of the profile of requirements specifications.

2 Specific stipulations for admission and entry to the Master's degree programme

2.1 Application with a university Bachelor's degree

¹ Holders of a university Bachelor's degree or an equivalent university qualification must satisfy all of the prerequisites set out in Section 1.

² Admission may be subject to additional requirements.

³ Admission is not possible if

- a. the language or performance prerequisites set out in Sections 1.3 and 1.4 are not satisfied, or
- b. in the context of academic prerequisites (1.2)
 - 1) any credits from Part 1 of said academic prerequisites must be acquired, or
 - 2) more than 30 credits from Part 2 of said academic prerequisites must be acquired.

³ The required language level is measured according to the Common European Framework of Reference for Languages (EFR) scale: *Common European Framework of Reference for Languages*, p. 23f. www.coe.int/t/dg4/linguistic/Source/Framework_EN.pdf

2.2 Application with a Bachelor's degree from a Swiss university of applied sciences

¹ Holders of a Bachelor's degree from a university of applied sciences must satisfy all of the prerequisites set out in Section 1.

² Admission is always subject to the acquisition of the missing academic and methodological knowledge and skills in the form of additional studies comprising at least 40 credits from Parts 1 and 2 of the academic prerequisites (see Section 1.2).

³ Admission is not possible if

- a. the language or performance prerequisites set out in Sections 1.3 and 1.4 are not satisfied, or
- b. the scope of the additional requirements necessary to satisfy academic prerequisites exceeds 60 credits.

2.3 Entering the Master's degree programme

¹ To students from an ETH Bachelor's degree programme who have been granted admission, the following applies:

- a. Said students can enrol in the Master's degree programme once they have acquired that number of credits which would qualify them to enrol in the Master's degree programme consecutive to their original subject.⁴
- b. The normal ETH enrolment dates and deadlines apply.
- c. Admission is provisional until the Bachelor's degree is issued. Admission will be revoked if the Bachelor's degree is not or cannot be issued.

² All other candidates who have been granted admission may only enrol in the Master's degree programme when they have completed the preceding (Bachelor's) degree.

3 Application and admission procedure

¹ All interested parties must submit an application for admission to the degree programme to the ETH Zurich Admissions Office. The specifications for application, in particular the documents required and the dates/deadlines for submission, are published on the website of the ETH Zurich Admissions Office (www.admission.ethz.ch).

² Application may be made even if the required preceding degree has not yet been issued.

⁴ The permitted number of missing credits is set out in the Programme Regulations of the respective consecutive Master's degree programme (e.g., B.Sc. Physics > M.Sc. Physics).

- ³ Applications will not be considered if
- a. they are submitted late or not in the correct form, or
 - b. the relevant fees have not been paid.

⁴ The admissions committee of the degree programme determines how far the background of the candidate corresponds to the profile of requirements and submits an application for admission/rejection to the Director of Studies.

⁵ The Rector makes the final decision regarding admission or rejection.

⁶ The candidate receives a written admissions decision which includes relevant information concerning any additional admission requirements.

4 Fulfilling additional admission requirements

4.1 General regulations

¹ Candidates who are admitted subject to the fulfilment of additional requirements must acquire the required additional knowledge and skills before or during the Master's programme via self-study or by attending classes. The corresponding individual performance assessments must take place by set deadlines.

² If the candidate fails said performance assessments or does not respect the set deadlines he/she will be regarded as having failed the programme and will be excluded from it.

³ The deadlines and conditions for undergoing said performance assessments depend upon the background of the candidate (see Sections 4.2 and 4.3 below).

4.2 Candidates with a university Bachelor's degree

¹ Candidates holding a university Bachelor's degree must undertake all of the performance assessments pertaining to the additional admission requirements by the end of the first year of the Master's programme at the latest. All additional requirements, including any assessment repetitions, must be fulfilled within 18 months of the start of the Master's programme at the latest.

² A pass grade in each individual performance assessment is required.

³ A failed performance assessment may only be repeated once.

4.3 Candidates with a Bachelor's degree from a Swiss university of applied sciences

¹ Candidates holding a Bachelor's degree from a Swiss university of applied sciences must undertake of the performance assessments pertaining to the additional admission requirements by the end of the first year of the Master's programme at the latest. All additional requirements, including any assessment repetitions, must be fulfilled within two years of the start of the Master's programme at the latest.

² The performance assessments may be undertaken as examination blocks. A pass grade in the examination block is achieved if the average of the individual grades is at least a 4.

³ A failed performance assessment or a failed examination block may only be repeated once. Repeating an examination block entails repeating all of the performance assessments belonging to it.