Appendix

To the Programme Regulations 2017 of the Master’s degree programme in Pharmaceutical Sciences


Applies to students who commence the degree programme in Autumn Semester 2017 or later, including students who are re-entering the degree programme.

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

Subject and scope

This appendix sets out the academic and language prerequisites for and further details regarding admission to the Master’s degree programme in Pharmaceutical Sciences. 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 Master's degree programme in Pharmaceutical Science (subsequently ‘the degree programme’) all of the following prerequisites must be satisfied.

1.1 Degree qualifications

1 For admission to the degree programme one of the following is required:

   a. a university Bachelor's degree in Pharmaceutical Sciences comprising at least 180 ECTS\(^1\) credits or an equivalent university degree in Pharmaceutical Sciences

   b. a university Bachelor's degree in a discipline other than Pharmaceutical Sciences comprising at least 180 ECTS credits or an equivalent university degree which – provided that any pertaining additional requirements can be completed within the set framework – satisfies the academic prerequisites listed in Section 1.2.

2 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.

1.2 Academic prerequisites

1 Attendance of the Master’s degree programme in Pharmaceutical Sciences presupposes basic knowledge and skills in the disciplines Mathematics, Physics, Chemistry, Biology and Pharmaceutical Sciences which are in content, scope, quality and level of mastery equivalent to those covered in the ETH Bachelor's degree programme in Pharmaceutical Sciences (discipline requirements profile).

2 The discipline requirements profile set out below comprises 113 credits in total and is based on knowledge and skills covered in the ETH Bachelor’s degree programme in Pharmaceutical Sciences. This includes training in the relevant methodological scientific thinking and in experimental competence.

3 If an applicant does not completely satisfy the academic prerequisites, admission may be subject to the acquisition of the missing knowledge and skills in the form of additional requirements. Completion of additional requirements is expressed in credits. For further details, see Section 5 below.

4 Admission is not possible if the applicant demonstrates academic gaps which are too extensive. For further details, see Sections 2.2 and 3.1 below.

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\(^1\) ECTS: European Credit Transfer System. Credits describe the average time expended to achieve a learning goal. One credit corresponds to a workload of 30 hours.
The discipline requirements profile is structured in the three parts set out below. Details regarding the content of these course units from the ETH Bachelor’s degree programme in Pharmaceutical Sciences are published in the ETH course catalogue (www.courses.ethz.ch).

Part 1: Basic knowledge (74 credits)
Part 1 comprises 74 credits and covers basic knowledge from the disciplines Mathematics and Natural Sciences. The substance of the following course units is required:

- Mathematics 11 credits
- Statistics 3 credits
- Physics 5 credits
- General Chemistry 4 credits
- Organic Chemistry 9 credits
- Physical Chemistry 7 credits
- Analytics 2 credits
- Fundamentals of Biology IA 5 credits
- Fundamentals of Biology IB 5 credits
- Fundamentals of Biology II: Cell Biology 5 credits
- Fundamentals of Biology II: Biochemistry and Molecular Biology 4 credits
- Fundamentals of Biology II: Microbiology 2 credits
- Anatomy, Physiology and Histology 12 credits

Part 2: Subject-specific knowledge (15 credits [10 + 5])
Part 2 comprises 15 credits in total (10 + 5 credits) and covers specific knowledge in Pharmaceutical Sciences. The substance of the following course units is required:

Part 2a
- Galenical Pharmacy 4 credits
- Immunology 2 credits
- Pharmacology und Toxicology 4 credits

Part 2b:
- Gene Technology* 1 credit
- Biopharmacy* 2 credits
- Pharmaceutical Analytics and Pharmacopeia* 2 credits
Applicants with missing knowledge in Gene Technology, Biopharmacy and/or Pharmaceutical Analytics und Pharmacopeia must acquire this knowledge through specially designed courses during their Master’s degree studies. The courses in question are defined in the individual Learning Agreements for the Master’s degree studies and fall under the category “Electives 1”. Credits acquired in these courses can be recognised for the Master’s Degree.

Failed courses cannot be compensated. If one of these courses is definitely failed, i.e. if it is failed twice, the student will be regarded as having failed the degree programme (exclusion from the degree programme).

Part 3: Practical knowledge and skills (24 credits)
Part 3 comprises 24 credits and covers practical laboratory knowledge and skills in Chemistry, Biology, Medicine and Pharmaceutical Sciences. Corresponding practical laboratory knowledge acquired in the Bachelor’s or diploma theses, industrial internships, work experience, etc. can be recognised.

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) must be provided.

3 Any language certificates must be submitted by the time of entering the degree programme at the latest. The ETH Zurich publishes a list of the language certificates accepted.

2 Specific stipulations for persons holding a Bachelor's degree in Pharmaceutical Sciences

2.1 Bachelor’s degree in Pharmaceutical Sciences from ETH Zurich, or enrolled status in this programme

Admission without additional requirements

1 Holders of a Bachelor’s degree in Pharmaceutical Sciences from ETH Zurich are unconditionally admitted to the degree programme.

Entering the Master’s degree programme

2 Students of the ETH Zurich Bachelor’s degree programme in Pharmaceutical Sciences may enrol in the degree programme directly via www.mystudies.ethz.ch. The admission procedure outlined in Section 4 is dispensed with. In detail:

2 The required language level is measured according to the Common European Framework of Reference for Languages (EFR) scale
a. The normal ETH enrolment dates and deadlines apply.
b. Students of the ETH Bachelor’s degree programme in Pharmaceutical Sciences may enrol directly in the programme, as long as only 8 credits for the Bachelor’s degree are pending.
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.

2.2 Bachelor’s degree in Pharmaceutical Sciences from other universities

1 Holders of a Bachelor’s degree or the equivalent in Pharmaceutical Sciences from another university than ETH Zurich must satisfy all of the academic and language prerequisites listed in Section 1 above for admission to the degree programme.

2 Admission may be subject to additional requirements.

3 Admission is not possible if
   a. the language prerequisites have not been satisfied (see Section 1.3), or
   b. the number of additional credits required to satisfy the academic prerequisites (see Section 1.2) exceeds
      1) 30 credits in total, or
      2) 18 credits from Part 1 of the academic prerequisites, or
      3) 6 credits from Part 3 of the academic prerequisites

Entering the Master’s degree programme

4 Candidates who have been granted admission may only enter the degree programme when they have completed the preceding Bachelor’s degree programme.

3 Specific stipulations for persons holding Bachelor’s degrees in disciplines other than Pharmaceutical Sciences

3.1 University Bachelor’s degree or enrolled status in an ETH Zurich Bachelor’s degree programme

1 If they are able to satisfy all the academic and language prerequisites set out in Section 1 within the given framework and have demonstrated very good performance in the preceding Bachelor’s degree programme candidates may also be admitted to the degree programme who

   a. hold a university Bachelor’s degree or the equivalent in a discipline other than Pharmaceutical Sciences; or
   b. are matriculated at ETH Zurich in a Bachelor’s degree programme other than Pharmaceutical Sciences.
Admission may be subject to additional requirements.

Admission is not possible if

a. the language or performance prerequisites have not been satisfied (see Section 1.3), or
b. the number of additional credits required to satisfy the academic prerequisites (see Section 1.2) exceeds
   1) 30 credits in total, or
   2) 18 credits from Part 1 of the academic prerequisites, or
   3) 6 credits from Part 3 of the academic prerequisites

3.2 Entering the Master’s degree programme

1 To students enrolled in an ETH Zurich Bachelor's degree programme (not Pharmaceutical Sciences) who have been admitted to the Master's degree programme, the following applies:
   a. They may enrol in the 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.
   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 can only enter the programme when they have completed the preceding Bachelor's degree programme.

4 Application and admission procedure

1 All interested parties – with the exception of matriculated ETH Zurich students from the Bachelor’s degree programme in Pharmaceutical Sciences – must submit an application for admission to the degree programme. 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.

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

3 The permitted number of missing credits is set out in the Programme Regulations of the respective consecutive Master's degree programme (e.g., BSc Physics → MSc Physics).
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 At the request of the Director of Studies the Rector decides to admit or reject the candidate.

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

5 Fulfilling additional admission requirements

5.1 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 degree programme via self-study or by attending classes. The corresponding individual performance assessments must take place by the 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 degree programme and will be excluded from it.

3 The deadlines and conditions for undergoing said performance assessments are set out in Section 5.2.

5.2 Deadlines and conditions for performance assessments

1 Candidates must undertake all of the performance assessments pertaining to the additional admission requirements within one year of starting the degree programme at the latest. The additional requirements, including any assessment repetitions, must be fulfilled at the latest within 18 months of starting the degree programme.

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

3 A failed performance assessment may only be repeated once.