

Appendix

To the Programme Regulations 2017 of the
Master's degree programme in Food Science

1. November 2016 (Version: 1. November 2016)

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 Food Science. 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 Food 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 Food Science comprising at least 180 ECTS¹ credits or an equivalent university degree in Food Science
- b. A Bachelor's degree in Food Technology / Food Science from a Swiss university of applied sciences comprising 180 ECTS² credits
- c. A university Bachelor's degree in a discipline other than Food Science 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 Holders of a university Bachelor's degree may only be admitted to a Master's degree programme at ETH Zurich if said degree qualifies them, without additional requirements, for admission to the desired Master's degree programme within the university system which awarded the Bachelor's degree. The Rector of ETH Zurich may also demand written proof of this, and determines whether said proof should come from the original university or from a university in the country where the Bachelor's degree was acquired.

1.2 Academic prerequisites

¹ Attendance of the Master's degree programme in Food Science presupposes basic knowledge and skills in the disciplines of Mathematics, Natural Sciences, Social Sciences and Food Science which are in content, scope, quality and level of mastery equivalent to those covered at ETH Zurich (discipline requirements profile).

² The **discipline requirements profile** comprises **102 credits** in total and is based on knowledge and skills covered in the ETH Bachelor's degree programme in Food Science. This includes training in the relevant methodological scientific thinking.

³ If a candidate 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.

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.

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.

⁴ Admission to the degree programme is not possible if the gaps in the candidate's academic knowledge are too extensive. Details are provided below in Sections 2.2 and 3.1 (persons with university degrees) and 2.3 (persons with degrees from universities of applied sciences).

⁵ The **discipline requirements profile** is structured in the two parts set out below. Details regarding the content of the corresponding course units are published in the course catalogue (www.courses.ethz.ch).

Part 1: Basic knowledge and skills (85 credits)

Part 1 comprises 85 credits and covers basic knowledge and skills from the disciplines Mathematics, Natural and Social Sciences and Food Science. The substance of the following course units is required:

Part 1a: Mathematics, Natural Sciences and Social Sciences (65 credits)

- Mathematics: Analysis, Linear Algebra, Systems Analysis [Systemanalyse], Statistics (20 credits)
- Chemistry: Inorganic and Organic Chemistry (10 credits)
- Physics (10 credits)
- Biology: General Biology [Allgemeine Biologie], Ecology, Microbiology, Cell Biology, Molecular Biology, Biochemistry, Biodiversity of Plants and Animals (20 credits)
- Social Sciences (5 credits)

Part 1b: Food Science (20 credits)

The substance of one or more of the following subject-specific course units is required:

- Human Nutrition [Humanernährung]
- Food Analysis [Lebensmittelanalytik]
- Food Chemistry [Lebensmittelchemie]
- Food Biotechnology [Lebensmittel-Biotechnologie]
- Food Microbiology [Lebensmittel-Mikrobiologie]
- Food Technology [Lebensmittel-Technologie]
- Food Process Engineering [Lebensmittel-Verfahrenstechnik]

Part 2: Subject-specific knowledge and skills (17 credits)

Part 2 comprises 17 credits and covers knowledge and skills which must – depending on the desired Master's degree programme specialisation – fall into one or more of the Food Science areas listed in Part 1b above.

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, because of their additional requirements for admission, also supply proof of sufficient knowledge of German (Level C1).

⁴ 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 Food Science

2.1 Bachelor's degree in Food Science from ETH Zurich, or enrolled status in this degree programme

Admission without additional requirements

¹ The following persons are guaranteed unconditional admission to the degree programme:

- a. Holders of a Bachelor's degree in Food Science from ETH Zurich
- b. Persons enrolled in this Bachelor's degree programme at ETH Zurich

Entering the Master's degree programme

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

- a. The normal ETH enrolment dates and deadlines apply.
- b. Enrolment may proceed if no more than 40 credits remain to be acquired for the Bachelor's degree. The following table lists the course unit categories in which pending credits are permitted, and their respective permitted numbers.

<u>Category</u>	<u>Permitted number of pending credits</u>
– Food Science subjects	25
– Bachelor's thesis	15

- 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.

³ The required language level is measured according to the Common European Framework of Reference for Languages (EFR) scale

2.2 Bachelor's degree in Food Science from a university outside Switzerland

¹ Holders of a Bachelor's degree or the equivalent in Food Science from a university outside Switzerland must satisfy the academic and language prerequisites listed in Section 1 to be admitted to the degree programme.

² Admission may be subject to additional requirements.

³ Admission is not possible if

- a. the language prerequisites are not satisfied, or
- b. the number of additional credits required to satisfy the academic prerequisites exceeds
 - 30 credits in total, or
 - 15 credits from Part 1 of the discipline requirements profile (see Section 1.2).

Entering the Master's degree programme

⁴ Candidates who have been granted admission may enter the Master's degree programme when they have completed the preceding (Bachelor's) degree programme.

2.3 Bachelor's degree in Food Technology / Food Science from a Swiss university of applied sciences

¹ Persons holding a Bachelor's degree from a Swiss university of applied sciences may also be admitted to the degree programme if they can satisfy the academic and language prerequisites listed in Section 1 above within the given framework and the final Bachelor's degree grade was at least a 5 [according to the Swiss grading system, which involves grades from 1 (lowest) to 6 (highest)].⁴

² Admission is always subject to the compensation of missing subject and methodological knowledge through additional study achievements comprising 44 to 60 credits.

³ The additional admission requirements to be fulfilled by candidates are structured in the following two parts:

⁴ The total grade is always calculated by ETH Zurich. The method of computation used, and other details such as how letter grades are transposed, are stipulated in the Directive on Admission to Master's Degree Programmes (www.weisungen.ethz.ch).

Additional admission requirements: Part 1

To fulfil Part 1 of the additional requirements at least 29 credits in the following areas must be acquired:

- Mathematics (13 credits)
- Chemistry (at least 3 credits)
- Physics (at least 5 credits)
- Biology (at least 6 credits)
- Social Sciences (at least 2 credits)

Additional admission requirements: Part 2

To fulfil Part 2 of the additional requirements at least 15 credits in one or more of the following areas of Food Science must be acquired:

- Human Nutrition
- Food Analysis
- Food Chemistry
- Food Biotechnology
- Food Microbiology
- Food Technology
- Food Process Engineering

Entering the Master's degree programme

⁴ Candidates who have been granted admission may enter the Master's degree programme when they have completed the preceding (Bachelor's) degree programme.

3 Specific stipulations for persons holding a Bachelor's degree in a discipline other than Food Science**3.1 University Bachelor's degree or enrolled status in an ETH Zurich Bachelor's degree programme**

¹ The following persons may be admitted to the Master's degree programme if they can satisfy the academic and language prerequisites listed in Section 1 above within the given framework and if they showed very good academic performance during the Bachelor's degree programme:

- a. Holders of a university Bachelor's degree or the equivalent in a discipline other than Food Science
- b. Persons enrolled in a Bachelor's degree programme at ETH Zurich in a discipline other than Food Science

² Admission may be subject to additional requirements.

³ Admission is not possible if

- a. the language prerequisites are not satisfied; or
- b. the performance prerequisites are not satisfied; or
- c. the number of additional credits required to satisfy the academic prerequisites exceeds
 - 30 credits in total, or
 - 15 credits from Part 1 of the discipline requirements profile (see Section 1.2).

3.2 Entering the Master's degree programme

¹ Students from an ETH Zurich Bachelor's degree programme (apart from Food Science) who have been granted admission to the Master's degree programme are subject to the following entry requirements:

- a. They may 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.⁵
- 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 candidates – with the exception of matriculated ETH Zurich students from the Bachelor's degree programme in Food Science – 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 not submitted by the deadline or are incomplete; and/or
- b. any applicable fees have not been paid.

⁵ 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).

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 depend upon the background of the candidate (see Sections 5.2 and 5.3 below).

5.2 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 be repeated once.

5.3 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 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 two years of the start of the Master's programme at the latest.

² If the associated performance assessments are session examinations these may be grouped into examination blocks as long as they are offered in the same examination session. The examinations of an examination block must always be undertaken during the same examination session.

³ A pass grade in the examination block is achieved if the average of the individual grades is at least a 4.

⁴ A failed performance assessment or a failed examination block may be repeated once. Repeating an examination block entails repeating all of the performance assessments belonging to it.