Appendix

To the Programme Regulations 2006 of the
Master's degree programme in Food Science

31 August 2010 (Version: 1 November 2011)

Applies to students who commence the degree programme in Autumn Semester 2011 or later. For those entering the programme before Autumn Semester 2011 the stipulations of the previous Appendix apply.

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 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.

Contents

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 ECTS[1] 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 ECTS[2] credits

c. a university Bachelor's degree comprising at least 180 ECTS credits or an equivalent university degree in a discipline whose content covers the academic prerequisites listed in 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

1.2.1 Knowledge and competences

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

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

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

[1] ECTS: European Credit Transfer System. Credits describe the average time expended to achieve a learning goal. One credit corresponds to 25-30 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.

Part 1: Basic knowledge and competences

Part 1 comprises 85 credits and covers basic knowledge from the disciplines Mathematics, Natural Sciences and Social Sciences.

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

The substance of the following course units from the ETH Bachelor's degree programme in Food Science is required:

- Mathematics: Analysis, Lineare Algebra [Linear Algebra], Systemanalyse [Systems Analysis], Statistik [Statistics] (20 credits)
- Chemistry: Anorganische und Organische Chemie [Inorganic and Organic Chemistry] (10 credits)
- Physics](10 credits)
- Biology: Allgemeine Biologie [General Biology], Ökologie [Ecology], Mikrobiologie [Microbiology], Zellbiologie [Cell Biology], Molekularbiologie [Molecular Biology], Biochemie [Biochemistry], Biodiversität Pflanzen und Tiere [Biodiversity of Plants and Animals] (20 credits)
- Social Sciences: Ökonomie [Economics], Recht [Law] (5 credits)

1b **Food Sciences** (20 credits)

The substance of one or more of the following subject-specific course units from the ETH Bachelor's degree programme in Food Science is required:

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

Part 2: Subject-specific knowledge and competences

Part 2 comprises 17 ECTS credits and covers knowledge from one or more of the areas listed in 1b above, which must apply directly to the specialisation selected for the Master's degree programme.

1.2.2 Admission with additional requirements

[1] If the academic prerequisites listed in 1.2.1 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).

[2] The candidate must provide proof of the acquisition of the additional knowledge and competences required by passing the pertaining performance assessments by set deadlines (see Section 5).

[3] 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.

1.3 Language prerequisites

[1] The teaching languages of the programme are English and German.

[2] For admission to the degree programme, proof of sufficient knowledge of English and German (Level C1[3]) must be provided.

2 Specific stipulations for persons holding a Bachelor's degree in Food Science

2.1 Bachelor's degree in Food Science from ETH Zurich

Unconditional admission

[1] Holders of a Bachelor's degree in Food Science from ETH Zurich are unconditionally admitted to the degree programme.

Registration

[2] Students of the Bachelor's degree programme in Food Science already matriculated at ETH Zurich should enrol in the degree programme directly via www.mystudies.ethz.ch. The admission procedure outlined in Section 4 is dispensed with.

Entering the Master's degree programme

[3] For all Bachelor's degree students already matriculated at ETH Zurich who progress to the ETH Master's degree programme, the following applies:

a. The normal ETH enrolment dates and deadlines apply.

b. 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: *The Common European Framework of Reference for Languages*, p. 23f. *www.coe.int/t/dg4/linguistic/Source/Framework_EN.pdf*

[4] Students of the ETH Bachelor's degree programme in Food Science may enrol directly in the Master's degree programme, as long as only a maximum of 40 credits towards the Bachelor's degree are pending. Listed below are the course unit categories in the Bachelor's programme where missing credits are allowed, and their permitted number.

Category	*Permitted number of missing credits*	
	Degree programme version A	Degree programme version B
Food Science subjects	2	23
Electives		3
Bachelor's thesis	17	14

2.2 Other university Bachelor's degrees in Food Science

2.2.1 General regulations

Application

[1] Interested parties holding a Bachelor's degree in Food Science which was not issued by ETH Zurich should apply through the ETH Zurich Admissions Office for admission to the degree programme and are subject to the admissions procedure set out in Section 4.

Entering the Master's degree programme

[2] Candidates who have been granted admission may enter the programme when they have completed the preceding Bachelor's degree programme.

2.2.2 Bachelor's degree in Food Science from other universities

Admission

[1] For admission to the degree programme all the prerequisites listed in Section 1 must be satisfied.

[2] Admission may be subject to additional requirements.

[3] Admission is not possible if 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 1.2.1).

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

Admission

[1] Admission to the degree programme is guaranteed for those holding a Bachelor's degree in Food Technology / Food Science from a Swiss university of applied sciences, as long as the final Bachelor's degree grade is at least a 5 [according to the Swiss grading system, which involves grades from 1 (lowest) to 6 (highest)],[4] and the language prerequisites set out in Section 1.3 have been satisfied.

[2] Admission is always subject to the acquisition of additional study achievements comprising at least 40 and at most 60 credits.

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

Additional admission requirements: Part 1

To fulfil Part 1 of the additional requirements at least 40 credits in the following areas must be acquired:

- Mathematics (11 credits)
- Chemistry (5 credits)
- Physics (5 credits)
- Biology: General Biology (3 credits)
- Biology: Biodiversity of Plants and Animals (4 credits)
- Microbiology (2 credits)
- Biochemistry (2 credits)
- Economics, Law (3 credits)

Additional admission requirements: Part 2

To fulfil Part 2 of the additional requirements at least 15 credits in the area of Food Science must be acquired:

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

[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.

- Food Process Engineering

3 Specific stipulations for persons holding Bachelor's degrees in other disciplines

3.1 General regulations

Application

Interested parties who hold a qualifying Bachelor's degree in a discipline other than Food Science should apply for the Master's degree programme via the ETH Zurich Admissions Office, and are subject to the admissions procedure set out in Section 4.

Admission

[2] For admission to the degree programme all the prerequisites set out in Section 1 must be satisfied. Very good performance in the preceding course of studies is also required.

[3] Admission may be subject to additional requirements.

[4] Admission is not possible if 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 1.2.1)

3.2 Bachelor's degree from ETH Zürich

Entering the Master's degree programme

[1] Students from an ETH Bachelor's degree programme who have been granted admission 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.[5]

[2] For all Bachelor's degree students who are already matriculated at ETH Zurich and who progress to an ETH Master's degree programme, the following applies:

a. The normal ETH enrolment dates and deadlines apply.
b. 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.

[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).

3.3 Bachelor's degree from another university

Entering the Master's degree programme

Candidates who have been granted admission can 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 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] 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.

[4] The Rector makes the final decision regarding admission without additional requirements, admission with additional requirements, or rejection.

[5] 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 competences 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 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).

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] 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 be repeated once. Repeating an examination block entails repeating all of the performance assessments belonging to it.