

Published in the university bulletin of the Ministry of General Education and Vocational Training, Science, Research and Culture (MBWK), p. 48

Published on the website: 22 Jul 2025

**Study and Examination Regulations (Statutes)
issued by the Faculty for Energy and Life Science for the master's degree programme
Applied Biotechnology and Food Science at Flensburg University of Applied Sciences (FUAS)
dated: 16 July 2025**

On the basis of § 52 para. 1 of the Hochschulgesetz (HSG, Higher Education Act) in the version of the notice dated 5 February 2016 (GVOBl. Schl.-H., page 39), last updated by law as of 25 March 2025 (GVOBl. Schl.-H. 2025/26, page 45) and following the resolution made by the Faculty Board of the Faculty of Energy and Life Science on 12 March 2025, the approval of the Senate of FUAS on 16 July 2025 and the permission granted by the President's Office of FUAS on 16 July 2025 the following statutes are issued.

§ 1

General information

These Study and Examination Regulations refer to the provisions made for all faculties of FUAS as defined in the *Prüfungsverfahrensordnung* (PVO, Principles of Assessment) of FUAS in its valid version respectively.

§ 2

Objectives of studies

The objectives of studies in the Applied Biotechnology and Food Science master's degree programme are:

- a) Enabling students to identify and analyse subject-related problems, to develop individual solutions that are both academically and technically sound and to successfully turn these solutions into marketable products and services.
- b) The acquisition of in-depth theoretical and active hands-on knowledge and skills and the ability to apply these to solve complex research problems.
- c) The development of general skills in methodology and teamwork.
- d) The ability to apply academic research and writing techniques and work on innovative fields of research independently.

§ 3

Completion of studies

- (1) On the basis of successfully completing the final examinations in this master's degree programme, the following academic degree will be awarded: Master of Science (M.Sc.)
- (2) The master's degree is a postgraduate degree and formally entitles its bearer to embark on a doctorate.

§ 4

Admission requirements

- (1) The President's Office grants admission to the master's degree programme based on a recommendation made by an admission committee composed of two members of teaching staff from

the programme. The admission committee shall be designated by the body of the programme's teaching staff and confirmed by the Faculty Board of the Faculty of Energy and Life Science.

- (2) Applicants may be admitted to the master's degree programme when they have successfully completed a degree in "Biotechnology, food technology and process engineering" or a degree in "Biotechnology and food technology". The completed degree programme must
- be comprised of at least 210 Credit Points (CP),
 - be a bachelor's degree or a German *Diplom* degree programme, and
 - the applicant must have completed it with a final grade of 2.5 or better.

Applicants with a final grade of at least 3.0 may be admitted to the programme if they meet the requirements defined under a) and b) and can provide letters of recommendation from two university professors.

- (3) Graduates of degree programmes in biotechnology or food technology or a related subject may be admitted to the master's degree programme under conditions. The completed degree programme must
- be comprised of at least 210 Credit Points (CP),
 - be a bachelor's degree or a German *Diplom* degree programme, and
 - the applicant must have completed it with a final grade of 2.5 or better.

Related degree programmes are programmes from the natural sciences and engineering, such as Bio Process Engineering, Bio Engineering, Food Engineering or Food Chemistry etc. §4 para. 2, sentence 2 applies for applicants from these programmes.

The admission committee will assess the applications meeting the requirements as defined in sentence 1 individually and determine whether the applicant will have to re-take individual modules based on the contents of the degree programme they have completed and the correlation with the objective of studies for this master's degree programme. If the admission committee determines that an applicant does not have to retake any modules, the applicant shall be admitted to the programme without conditions.

If the admission committee comes to the conclusion that it is objectively not possible for an applicant to complete modules that are relevant to successfully complete the programme in the designated time of three semesters (the period of time designated to complete a respective degree in) in accordance with §5, para. 1 and in view of the modules offered at FUAS, no conditions will be defined. In this case, the applicant is not entitled to be admitted to the programme notwithstanding sentence 1.

Successful completion of the conditions admission is granted under is a pre-requisite to register for the thesis and final examination, so proof of successful completion of any modules that were condition to admission must be provided when registering for the final thesis at the latest.

- (4) Applicants may be admitted to the master's degree programme when they have successfully completed a degree in "Biotechnology, food technology and process engineering" with a major in "Biotechnology and food technology" or a degree in "Biotechnology and food technology", "Biotechnology" or "Food technology" or in another related subject. The completed degree programme must
- be comprised of at least 180 Credit Points (CP),
 - be a bachelor's degree or a German *Diplom* degree programme, and
 - the applicant must have completed it with a final grade of 2.5 or better.

Related degree programmes are programmes from the natural sciences and engineering, such as Bio Process Engineering, Bio Engineering, Food Engineering or Food Chemistry etc. §4 para. 2, sentence 2 applies for applicants from these programmes.

For any applicant who has completed a degree programme comprised of less than 210 CP, the admission committee will individually assess the qualifications necessary for an admission to the degree programme. If it is deemed objectively possible to acquire these qualifications in the period of time designated to complete the respective degree in accordance with §5, para. 1, i.e. three semesters, and in view of the modules offered at FUAS, applicants can be granted admission to the programme with conditions being made.

Successful completion of the conditions admission is granted under is a pre-requisite to register for the thesis and final examination, so proof of successful completion of any modules that were condition to admission must be provided when registering for the final thesis at the latest.

- (5) All applicants have to provide evidence of a satisfactory level of English language skills as an additional pre-requisite to be admitted to the programme. The evidence can be provided as follows:
1. English being the applicant's native language or
 2. by means of a grade of 10 points (German grading system) in English on a school leaving certificate (English must have been attended for at least 4 semesters/2 school years) issued by a secondary school granting admission to higher education [German Fachhochschulzugangsberechtigung] or
 3. if the applicant holds a degree from a degree programme taught entirely in English (certified by the university in question) or
 4. by means of a Cambridge First Certificate (minimum grade C) or
 5. by means of a telc-B2 certificate or a UNICert II certificate or
 6. by means of a TOEFL test with a score of at least 72 (iBT) or an IELTS result of 5.5 (Overall Band Score) or a Pearson PTE Academic result of at least 59 or
 7. by providing evidence of having spent a minimum of five months in an English-speaking country or
 8. by completing English language or English-taught modules worth a minimum of 10 CP at university level.

If this evidence cannot be provided, applicants are not entitled to be admitted to the programme.

§ 5

Standard duration of studies, credits

- (1) The standard duration of studies for this degree programme is three semesters including the final examination.
- (2) The master's degree programme (cf. §6) is made up of 90 credit points. A total of 30 Credit Points (CP) is to be acquired each semester (cf. §6).

§ 6

Modules and assessment

- (1) The modules and assessment plan is illustrated in the following table.
- (2) The following table defines in which way credit points are assigned to individual modules.

Modules and assessment plan for the Applied Biotechnology and Food Science master's degree programme

The following abbreviations are used in the table below:

Type of class	
Sem	Seminar
Lab (P)	Laboratory project
Type of assessment	
Ex	Examination
Form of assessment	
OA	Other form of assessment
Other forms of assessment are	
Pres	Presentation
WR	Written report
WT (n)	Written test (n hours)
TD	Technical discussion
hpw	Hours per week (in class)

Where a comma is used in defining the form of assessment, the comma (,) shall be read as an "or".

1st semester of the programme					
Module	Class			Assessment	
	Teaching method	hpw	CP	Teaching method	Form (hours if applicable)
Production Organisms	Sem	4	6	Ex	OA (WT (2), WR, TD)
Food Innovations	Sem	4	6	Ex	OA (WT (2), WR and Pres, TD)
Industrial Food Processing	Sem	4	6	Ex	OA (WT (1) and Pres, Pres, TD)
Bioanalytical Techniques	Sem	4	6	Ex	OA (WT(2), WT (1) and Pres, TD)
Elective Courses 1 ¹⁾		4	6	Ex	
Total		20	30	5 Ex	

Please note:

¹⁾ Elective Courses: Three binding elective modules offered as well as their respective form of assessment will be updated each semester and published in a suitable manner. Students may take binding electives adding up to a total of CPs as they choose. To complete a binding elective, the assessment defined for it, must be completed successfully. Students must complete the total amount of CPs required from binding electives in the course of their studies.

2nd semester of the programme					
Module	Class			Assessment	
	Teaching method	hpw	CP	Teaching method	Form (hours if applicable)
Research Proposal	Sem	4	6	Ex	OA (WT (2), Pres and WR, TD)
Team Project ¹⁾	Lab (P)	8	12	Ex	OA (WT (2), WR, TD)
Scientific Conference	Sem	4	6	Ex	OA (WT (2), Pres and WR, TD)
Elective Courses 2 ²⁾		4	6	Ex	
Total		20	30	4 Ex	

Please note:

¹⁾ Students can choose from a number of laboratory projects in this module. The regulations set out in FUAS' Principles of Assessment [Prüfungsverfahrensordnung] apply in for students participating in specific laboratory projects. The number of students working on the same laboratory project shall not exceed eight.

²⁾ Elective Courses: Three binding elective modules offered as well as their respective form of assessment will be updated each semester and published in a suitable manner. Students may take binding electives adding up to a total of CPs as they choose. To complete a binding elective, the assessment defined for it, must be completed successfully. Students must complete the total amount of CPs required from binding electives in the course of their studies.

3rd semester of the programme					
Module	Class		Assessment		
	Teaching method	CP	Teaching method	Form (hours if applicable)	Pre-requisite
Master's thesis	Final thesis and Colloquium	30	Ex	Final thesis: 5 months Colloquium: 60 minutes	30 CP
Modules of the 3rd semester of the programme		30	1 Ex		

§ 7

Language of instruction and examination language

- (1) Classes and examinations in the master's degree programme are to be held in English. An exception can be made for binding elective modules for which German and English can be the language of instruction and examination.
- (2) The master's thesis may be written in English or German.

§ 8

Thesis

- (1) Students can register for the thesis after having successfully acquired 30 Credit Points (CP). The master's thesis consists of a final thesis and a colloquium.
- (2) Usually, the thesis is to be produced in a time period of five months.

§ 9

Colloquium

- (1) A colloquium held in English or German is part of the Applied Biotechnology and Food Science master's degree programme.
- (2) The colloquium is scheduled to take 60 minutes per candidate.

§ 10

Composition of the final grade, certificate

The final grade is derived from the weighted individual grades resulting from the examinations and the grade awarded for the master's thesis (the grade for the written thesis counting 70% and the grade for the colloquium counting 30%). The percentage to which a module is weighted into the final grade is determined on the basis of credit points: The credit points of a module are divided by the total credit points of all modules relevant to the final grade.

§ 11

Provisions for the transitional period

- (1) The modules offered in accordance with the previously valid Study and Examination Regulations for the master's degree programme Applied Bio and Food Sciences dated 15 May 2018 will be discontinued per semester. Classes offered for the first semester of the programme will no longer be offered starting from the summer semester 2026. Classes offered for the following semesters will be discontinued from the following semesters respectively.
- (2) When a class has been discontinued the assessment and examinations (Examination) linked to it will be offered in the examination periods as defined by the Principles of Assessment [Prüfungsverfahrensordnung, PVO] as well as at the end of the following three semesters.
- (3) The completion of the master's thesis in accordance with the previously valid Study and Examination Regulations for the master's degree programme Applied Bio and Food Sciences dated 15 May 2018 will be possible until 28 February 2029.
- (4) The previously valid Study and Examination Regulations for the master's degree programme Applied Bio and Food Sciences dated 15 May 2018 will be discontinued on 28 February 2029.

§ 12
Coming into effect

- (1) These Study and Examination Regulations come into effect on 1 March 2026 and are valid for all students enrolling in the Applied Biotechnology and Food Science master's degree programme at Flensburg University of Applied Sciences starting from the summer semester 2026.
- (2) The modules specified in these regulations will be introduced successively each semester after the coming into effect of these Regulations. Students are entitled to classes being taught and examinations being held only insofar as modules have been introduced already.

Flensburg, 16 July 2025

Faculty for Energy and Life Science
Flensburg University of Applied Sciences
- The Dean -

Prof. Dr. Antje Labes