

This English translation is offered for information purposes only. In the event of any discrepancy or doubt in interpretation, the original German texts published in the Official Notices of Rhine-Waal University of Applied Sciences take precedence. Only the original German texts are considered legally binding.



Examination Regulations

for

Bioengineering, B.Sc.

Faculty of Life Sciences

Rhine-Waal University of Applied Sciences

Dated 28 November 2018

(Official Notice 36/2019)

Amended version produced by the Second Amending Statutes

Dated 23 January 2026

(Official Notice 06/2026)

Contents

- Section 1 Scope
- Section 2 Academic objectives; purpose of examination; degree awarded
- Section 3 Admission requirements
- Section 4 Basic internship
- Section 5 Programme structure; Volume of instruction hours; Progression of studies
- Section 6 Scope of examinations
- Section 7 Scope and form of the thesis
- Section 8 Admission to the thesis and colloquium
- Section 9 Credit values for the thesis and colloquium
- Section 10 Conferral of the bachelor's degree
- Section 11 Entry into force / transitional provisions
- Annex

Section 1

Scope

These examination regulations apply to the degree programme Bioengineering, B.Sc., which is offered in English by the Faculty of Life Sciences of Rhine-Waal University of Applied Sciences, and are valid in conjunction with the General Examination Regulations for Bachelor's and Master's Degree Programmes ("RPO") of Rhine-Waal University of Applied Sciences. They govern the full-time, seven-semester mode of study.

Section 2

Academic objectives; purpose of examination; degree awarded

(1) The bachelor's examination (*Bachelorprüfung*) forms the basis for the professionally qualifying nature of this bachelor's degree. The academic aims and objectives of this degree programme are outlined in Section 3 RPO. In particular, this degree programme aims to impart expert qualifications in the fields of bioengineering and biotechnology. This goal is achieved via a broad curriculum designed to impart to students specialist knowledge and skills in the natural sciences and engineering, as well as general and practical skills in economics, project management, information technology and intercultural collaboration. A strong command of English is key to success in this degree programme, as it provides the essential basis for the programme's continuous objective of expanding and honing students' professional language skills.

(2) The academic degree "Bachelor of Science", abbreviated as "B.Sc.", is awarded for successfully completing the bachelor's examination.

Section 3

Admission requirements

(1) General admission requirements are defined in Section 4 RPO.

(2) Applicants are ineligible for admission if they failed the final attempt at a mandatory examination in a previous degree programme that was very similar content-wise to this degree programme and offered by a university subject to German Basic Law.

(3) Acceptable proof of English proficiency is defined in Section 4 (5a) RPO.

(4) Applicants may request an exemption from the proof of proficiency requirement defined in subsection (3). These requests are justified, for example, for persons applying on the basis of a professionally-qualifying undergraduate degree that was taught in English and in a majority English-speaking country as defined in Annex 1. The Examination Board will decide on these requests.

Section 4

Basic internship

Proof of completion of a basic internship within the meaning of Section 4 (3) RPO is not required.

Section 5

Programme structure; Volume of instruction hours; Progression of studies

- (1) The total volume of instruction for this degree programme is 141 contact hours per week (CH, or SWS in German).
- (2) Curricular excursions, language courses, practical training courses or tutorials have mandatory attendance. Courses with mandatory attendance are marked with an asterisk (*) in the study and examination plan for the degree programme.
- (2a) Mandatory attendance per subsection 2 is defined as attending at least 75% of the course. Successful completion is confirmed by certificate/attestation as defined by Section 20 (2) RPO. If a student is unable to fulfil the attendance requirement due to a long period of absence for justified reasons (e.g., illness, pregnancy or nursing leave), the responsible instructor can decide, upon request, if and how the student can make up for the period of absence. Section 16 (4) RPO applies with regard to compensatory arrangements.
- (3) In accordance with the European Credit Transfer Accumulation System (ECTS), one credit point (CP) in this degree programme is equivalent to a workload of 30 hours. The modules of this degree programme comprise a total sum of 210 CP in accordance with Section 6 (5) RPO.
- (4) Intentionally omitted.
- (5) Intentionally omitted.
- (6) Additional information about the breakdown of this degree programme and the type, form and scope of modules is available in the study and examination plan at the end of this document. Additional information about learning outcomes, qualification aims, contents and forms of examination is available in the module guide, which is available for viewing in the faculty's central office.
- (7) Examinations are completed over the course of study. Registration for examinations requires proof of completion of any prerequisites, in particular module examinations, insofar as these are defined in the annex as prerequisites in order to complete a specific module and/or register for lectures in a specific module.
- (8) In addition to the general prerequisites for admission to the internship or semester abroad (Section 21 (2) RPO), students in this degree programme must have successfully completed all modules and module examinations from the first year of study.

Section 6

Scope of examinations

- (1) The time allotted for a written examination depends on the number of contact hours (SWS) for the corresponding lecture. As a rule, 60 minutes are allotted for every two contact hours (SWS).
- (2) An oral examination generally takes between 30 and 45 minutes.
- (3) The text portion of an assignment, term paper or project should not exceed 30 pages (DIN A4).
- (4) In justified cases and upon request, specific module examinations can be completed in German. Requests must be submitted to the Examination Board no later than when registering

for admission to the thesis. The decision will be issued together with the permission to attend the exam in question.

Section 7 **Scope and form of the thesis**

(1) The text portion of the thesis should generally be between 40 and 100 pages (DIN A4) in length. The thesis may be supplemented with other media, provided the use thereof as additional documentation is appropriate and helpful in accordance with the assigned task. In this case, the length of the text portion of the thesis may deviate from the aforementioned minimum requirement.

(2) The thesis can also be submitted as group work if each student's individual contribution fulfils the requirements set forth in Section 23 (1) RPO and is clearly distinguishable (and thus assessable) thanks to clear and distinct separation by sections, page numbers or other criteria.

(3) Contrary to Section 25 (2) RPO, the allotted period for completing the thesis for part-time students is six months.

(4) In justified cases and upon request, the thesis can be submitted in German. Requests must be submitted to the Examination Board no later than when registering for admission to the thesis. The decision will be issued together with the permission to begin the thesis.

Section 8 **Admission to the thesis and colloquium**

(1) In addition to the thesis admission requirements set forth in Section 24 (1) RPO, students must have obtained at least 180 credits.

(2) In addition to the colloquium admission requirements set forth in Section 27 (2) RPO, students must have obtained 207 CP.

Section 9 **Credit values for the thesis and colloquium**

(1) Twelve credits are awarded for passing the bachelor's thesis.

(2) Three credits are awarded for passing the colloquium.

Section 10 **Conferral of the bachelor's degree**

The bachelor's degree specified in Section 2 (2) is officially conferred upon issuing of the bachelor's degree certificate defined in Section 30 (1) RPO.

Section 11

Entry into force / transitional provisions

(1) These examination regulations will enter into force on the day after publication of the German-language original in the Official Notices of Rhine-Waal University of Applied Sciences. They apply to students who first enrolled in Bioengineering, B.Sc. of the Faculty of Life Sciences of Rhine-Waal University of Applied Sciences in or after winter semester 2019-20.

(2) Students who first enrolled in Bioengineering, B.Sc. before winter semester 2019-20 may continue their studies under the examination regulations in the version dated 13 January 2013 (Official Notice 03/2013) until no later than 28 February 2026. Accordingly, the examination regulations in the version dated 13 January 2013 (Official Notice 03/2013) will expire on 1 March 2026. Students who are currently enrolled as part-time students in Bioengineering, B.Sc. may continue their studies according to the examination regulations dated 28 November 2018 (Official Notice 36/2019), in the amended version produced by the First Amending Statutes dated 15 December 2022 (Official Notices 5/2023), until no later than 29 February 2032. Accordingly, the examination regulations dated 28 November 2018 (Official Notices 36/2019), in the amended version produced by the First Amending Statutes dated 15 December 2022 (Official Notices 05/2023), will expire on 1 March 2032.

(3) Students currently studying under the examination regulations in the version dated 13 January 2013 (Official Notice 03/2013) or part-time students studying under the examination regulations dated 28 November 2018 (Official Notice 26/2019), in the amended version produced by the First Amending Statutes dated 15 December 2022 (Official Notice 05/2023), may submit a written request to the Examination Board to switch to the present examination regulations. The Examination Board is responsible for all credit recognition decisions for modules and examinations completed under previous examination regulations. Upon expiry of the examination regulations in the version dated 13 January 2013 or the examination regulations dated 28 November 2018 (Official Notice 36/2019), in the amended version produced by the First Amending Statutes dated 15 December 2022 (Official Notice 05/2023), any students still studying thereunder will officially and automatically continue their studies under the present examination regulations.

(4) Students who successfully passed the module "BE 4 4303 Nanobiotechnology" as it was offered under the examination regulations in the version dated 28 November 2018 (Official Notice 36/2019) will receive full credit under the new examination regulations.

Note: These examination regulations entered into force in their present version on 21 February 2026.

Annex 1

Countries defined as “English-speaking”

- Antigua and Barbuda
- Australia
- Bahamas
- Barbados
- Belize
- Dominica
- Grenada
- Guyana
- Ireland
- Jamaica
- Canada
- New Zealand
- St. Kitts and Nevis
- St. Lucia
- St. Vincent and the Grenadines
- Trinidad and Tobago
- The United Kingdom of Great Britain and Northern Ireland
- United States of America

Elective Subjects

Module Code	Elective modules	CH	Type					Exam		ECTS points*	CH		
			L	S	E	LC	Pro	graded	attestation		ST	WT	
BE 4 4301	Technical enzymology and Biocatalysis	4		4					P		5	4	
BE 4 4302	Agricultural Biotechnology and Biofuels	4		2				2	P		5	4	
BE 4 4303	Nanobiotechnology	4		4					P		5	4	
BE 4 4304	Fluid Mechanics and Dynamical Systems	4	1	1			2		P	T	5	4	*
BE 5 4351	Metabolic Engineering	4		2				2	P		5		4
BE 5 4352	Biological Physics	4	2				2		P	T	5		4
BE 5 4353	Environmental Biotechnology and Microalgae	4		2				2	P		5		4
BE 5 4354	Pharmaceutical Biotechnology and Immunology	4	2	2					P		5		4
BE 5 4355	Biopolymers	4	2	1			1		P	T	5		4
BE 7 4371	Project reg. Academic Principles and Methods in preparation of Bachelor Thesis	8						8		T	10		8
BE 7 550	Language Course	4								T	5		4
BE 4 WPF_1	Module from any bachelor study course of Faculty of Life Sciences at Rhine-Waal University of Applied Sciences	4							P		5	4	***
BE 5 WPF_2	Module from any bachelor study course of Faculty of Life Sciences at Rhine-Waal University of Applied Sciences	4							P		5		4
BE 7 WPF_3	Module from any Bachelor Study Course at Rhine-Waal University of Applied Sciences	4							P		5		4
BE 7 WPF_4	Module from any Bachelor Study Course at Rhine-Waal University of Applied Sciences	4							P		5		4
6-7 elective modules amount to		28									35		

The faculty reserves the right to determine a minimum number of participants for offering an elective subject. Admission to mandatory modules is subject to available capacities. The possibility to obtain the required number of credit points remains unaffected.

In case of new developments in the different fields of Bioengineering the faculty reserves the right to expand the range of elective modules by further study courses o

*** The actual selection from any study programme of the Rhine-Waal University has to be approved by the Examination Committee of the Faculty of Life Sciences. Module code and module description of the module chosen will be used.