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Subject-specific examination and study regulations for the Bachelor's degree programme in Life Science and International Health (B. Sc.) dated 03 February 2025

English translation, legally not binding

On the basis of Section 5 (1) sentence 2 in conjunction with Section 20 (2) sentence 1, Section 23 (2) sentence 1, Section 70 (2) no. 8 and Section 81 (2) sentence 1 no. 1 of the Brandenburg Higher Education Act (BbgHG) of 9 April 2024 (GVBl. I/24, [no. 12]) GVBl. I/24, [no. 12]), amended by Article 2 of the Act of 21 June 2024 (GVBl. I/24, [No. 30], p. 32) and Section 16 para. 2 no. 1 and Section 29 para. 4 sentence 1 no. 1 of the Basic Regulations for the Brandenburg University of Technology Cottbus-Senftenberg (GO BTU) of 8 January 2016, last amended by the Third January 2016, last amended by the Third Amendment Statute of 26 September 2024 (AMbl. 39/2024) and Section 1 (1) of the General Examination and Study Regulations for Bachelor's degree programmes at BTU Cottbus-Senftenberg (RahmenO-BA) of 12 September 2016 (AMbl. 13/2016), last amended by the Fifth Amendment Statute (AMbl. 29/2024 of 29.08.2024), Brandenburg University of Technology Cottbus-Senftenberg (BTU) has adopted the following statutes:

Contents

§ 1 Scope of validity

[1]These regulations govern the subject-specific features of the English-language Bachelor's degree programme in Life Science and International Health. [2]It is a supplement to the General Examination and Study Regulations for Bachelor's degree programmes at BTU (RahmenO-BA) in their current version.

§ 2 Content profile of the programme, goals of study

[1]Students receive a basic education in biophysics, chemistry and data sciences as well as an in-depth education in the biological subjects (cell biology, microbiology, molecular biology, genetic engineering) and international public health. [2]Graduates are able to work largely independently in research and development and to plan and carry out experiments autonomously. [3]They are able to coordinate production processes and are familiar with quality assurance criteria (GMP), e.g. in the pharmaceutical sector. [4]The programme also provides students with the skills to develop healthcare systems that serve to prevent diseases, promote health and prolong life. [5]In addition, the foundations are laid for further, research-oriented studies in a consecutive Master's degree programme in Biotechnology, Biomedicine or Public Health.

§ 3 Graduation, degree title

Upon successful completion of the Bachelor's degree programme in Life Science and International Health, the academic degree "Bachelor of Science" (B. Sc.) is awarded.

§ 4 Special admission and enrolment requirements

There are no special admission and enrolment requirements.

§ 5 Scope and standard period of study

(1) [1]The degree programme comprises 180 credit points (CP) with a standard study period of six semesters. [2]One credit point corresponds to 30 hours of work.

(2) The programme commences in the winter semester.

(3) Individual part-time study is possible in accordance with General Examination and Study Regulations for Bachelor's degree programmes at BTU (RahmenO-BA) in their current version.

§ 6 Programme structure and organisation

(1) [1]The degree programme is made up of Mandatory and compulsory elective modules in accordance with the curriculum shown in Annex1. [2]From the second to the fifth semester, an internship in the laboratory is scheduled every semester. In the fourth semester, students are required to select one interdisciplinary module from the BTU's catalogue of Interdisciplinary Studies (FÜS). [4]Within the specialisation module complex, students must choose three modules to a total of 18 credits points from the catalogue of compulsory elective modules (Annex 2). [5] The module "Bachelor Research Competence" (Research Project) constitutes the practical component of the Bachelor's thesis, in which the research hypothesis is developed and experimentally examined, data and results are generated, and these subsequently serve as the academic foundation for the Bachelor's thesis.

(2) [1] The catalogue of compulsory elective modules may be adjusted each semester as necessary. [2] It must be ensured that programme remains feasible in any cases within the standard period of study . [3]The head of degree programme must submit a binding notification to the administration (Campus Management System Process Support) one month before the start of the semester.

(3) The sixth semester, including the Bachelor's thesis, is designated as the mobility window.

(4) The language of instruction and examination is English.

§ 7 Special regulations on the organisation of examinations

There are no special regulations on the organisation of examinations.

§ 8 Bachelor's thesis

(1) [1]The Bachelor's thesis has a scope of 12 CP. [2]The time allocated of the written thesis is nine weeks.

(2) [1]Admission to the Bachelor's thesis is granted to students who, at the time of registration, have earned at least 132 CP from the modules of the first five semesters of the standard curriculum. [2]All Mandatory modules of the first five semesters must have been passed.

(3) The overall grade for graduation is calculated from the sum of

a) the average of all module grades weighted by a factor of 0.7 and

b) the grade for the Bachelor's thesis weighted by a factor of 0.3.

§ 9 Further supplementary regulations

There are no further supplementary regulations.

§ 10 Entry into force, abrogation regulations

(1) These regulations shall enter into force in the winter semester 2025/26.

(2) These regulations apply to all students enrolled on the Bachelor's degree programme in Life Science and International Health from the winter semester 2025/26.

(3) These examination and study regulations dated 03 February 2025 (AMbl. 03/2025) shall expire after the last enrolment at the end of the standard period of study plus four semesters

Issued on the basis of the resolutions of the Faculty Council of Faculty 2 - Environment and

Natural Sciences of 02 November 2022, 06 March 2024 and 12 June 2024, the opinion of the Senate of 23 May 2024 and the approval of the President of the Brandenburg University of Technology Cottbus-Senftenberg of 21 October 2024.

Cottbus, 03 February 2025

Prof. Dr. Gesine Grande
President

Annex 1: Overview of the modules, status, credit points (CP)

Module no.	Complexes and modules	Status	Assessment	CP
Module Complex Health and Scientific Fundamentals				**60**
14102	Biomedical Data Science	P	Exam	6
13110	Basic Natural Sciences	P	Exam	6
14103	General Biology	P	Exam	6
14104	Biomedical Information Science	P	Exam	6
14105	Microbiology	P	Test	6
14119	Organic Chemistry	P	Exam	6
14018	Introduction to Scientific Work	P	Exam	6
14108	Basics in Theoretical Medicine	P	Exam	6
14109	Biochemistry	P	Exam	6
14113	Biomedicine	P	Exam	6
Module Complex Fundamentals of International Public Health				**42**
41102	Ecology	P	Exam	6
14406	Economics	P	Exam	6
14110	Health Promotion and Disease Prevention	P	Exam	6
14106	International Public Health	P	Exam	6
14111	Economics of Health Systems	P	Exam	6
14112	Law in Life Science and Public Health	P	Exam	6
12769	Molecular Biotechnology and Society	P	Exam	6
Module complex specialisation				**18**
	Compulsory elective modules*	WP	Exam	18
Module Complex Interdisciplinary Studies				**6**
	Interdisciplinary studies**	WP	Exam	6
Internship module complex				**24**
14118	Introduction to Laboratory Work	P	Exam	6
14120	Biomedical Lab Course I - Microbiology	P	Exam	6
14121	Biomedical Lab Course II - Functional Bioanalytics	P	Exam	6
14122	Biomedical Lab Course III - Cell Culture	P	Exam	6
Module complex Bachelor thesis				**30**
14389	Bachelor Research Competence	P	SL	18
14388	Bachelor Thesis	P	Exam	12
total				**180**

P = compulsory module, WP = compulsory elective module, Examen = examination, SL = academic achievement;
* Freely selectable from Appendix 2 Catalogue of compulsory elective modules;
** Freely selectable from the current programme of General Studies (FÜS, Fachübergreifendes Studium) at BTU

Annex 2: Catalogue of compulsory elective modules

Module no.	Complexes and modules	Status	Assessment	CP
14123	Bioeconomy	WP	Check	6
14117	Enzymes in Drug Development	WP	Exam	6
14124	Personalised Medicine	WP	Exam	6
41201	International Environmental Law	WP	Exam	6
14115	Haematology and Oncology	WP	Exam	6
14116	Immunology	WP	Exam	6
11212	Statistics	WP	Exam	6
13388	Introduction to Catalysis	WP	Test	6

WP = compulsory elective module, Exam = examination

Annex 3: Standard study plan (allocation of modules and CP to semesters)

Modules and module complex	**CP in the semester**						**Σ CP**
	1	2	3	4	5	6	
Biomedical Data Science	6						6
Basic Natural Sciences	6						6
General Biology	6						6
Biomedical Information Science	6						6
Economics of Health Systems	6						6
Ecology		6					6
Microbiology		6					6
Economics		6					6
Organic Chemistry		6					6
Introduction to Laboratory Work		6					6
Health Promotion and Disease Prevention			6				6
Introduction to Scientific Work			6				6
Basics in Theoretical Medicine			6				6
Biochemistry			6				6
Biomedical Lab Course I - Microbiology			6				6
International Public Health				6			6
General studies				6			6
Law in Life Science and Public Health				6			6
Biomedicine				6			6
Biomedical Lab Course II - Functional Bioanalytics				6			6
Biomedical Lab Course III - Cell Culture					6		6
Molecular Biotechnology and Society					6		6
Compulsory elective module 1					6		6
Compulsory elective module 2					6		6
Compulsory elective module 3					6		6
Bachelor Research Competence						18	18
Bachelor Thesis						12	12
Total	**30**	**30**	**30**	**30**	**30**	**30**	**180**