Study and Examination Regulations  
For the Bachelor’s Programme Business and Engineering  
At the University of Applied Sciences  
Würzburg-Schweinfurt  
(SPO IBE – engl.)  

As of 28 June 2019

The Bavarian Higher Education Act (Bayerisches Hochschulgesetz, BayHschG) forms the framework for the following regulations decreed by the University of Applied Sciences Würzburg-Schweinfurt (FHWS).

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1. General Information

§ 1

Purpose of these Study and Examination Regulations

¹These Study and Examination Regulations govern the course of the bachelor’s programme Business and Engineering. ²They serve to complete and supplement the General Examination
§ 2
Programme Objective and Profile

(1) Through practice-oriented teaching with an academic basis in the field of industrial engineering, the objective of the English-language degree programme Bachelor of Business and Engineering is to teach, in particular, the engineering and business-related expertise, methodological competence and social skills that enable students to independently apply analytical findings and methods and to act responsibly in the workplace and in society in the occupational field of industrial engineering.

The occupational field is very broad internationally and ranges from generalists to specialists in purchasing, production, or sales.

(2) The occupational field is determined by companies’ global competition for profits, whilst at the same time satisfying the customers’ requirements for needs-based products and services, which often differ from country to country. Knowledge of the potential for technical solutions, taking into account economic targets and different national frameworks, is gaining in importance. Corporate structures which are still mostly function-oriented are increasingly breaking up into project and process organisations. Procurement and sales markets as well as the production of goods and services have become very internationalised.

(3) Alongside the acquisition of targeted expertise, the degree in Business and Engineering aims to train the ability to identify and consider differences and similarities in national frameworks, to identify the larger context, to react flexibly, and to manage projects. The programme focuses on cross-linking engineering and business-related issues in as many subject areas and disciplines as possible. The aim is to develop decision-making skills, communication skills and the willingness to cooperate with others. Additionally, the programme is to develop the ability to independently perform entrepreneurial activities as well as to think process-oriented.

(4) Due to the interdisciplinary nature of this degree, the Faculty of Business and Engineering works closely with the Faculties of Mechanical Engineering, Electrical Engineering as well as Economics and Business Administration, and Computer Science and Business Information Systems. The increasing internationalisation of companies is taken into account through close cooperation with foreign partner universities.
§ 3  

Conditions for Admission to the Programme

(1) ¹Admission to the bachelor’s programme Business and Engineering is conditional upon evidence of

a) a general higher education entrance qualification,

b) an entrance qualification for a university of applied sciences (Fachhochschulreife) or

c) a higher education entrance qualification in terms of Article 45 of the Bavarian Higher Education Act of 23 May 2006 (GVBl, p. 245, BayRS 2210-1-1-WFK) in its current version.

²Evidence of the existence of the condition under Sentence 1 a) to c) is provided in accordance with the Regulation Concerning Eligibility for Studying at the Universities of the Free State of Bavaria and the State-recognised Private Universities of 2 November 2007 (GVBl p. 767) in its current version.

(2) Other conditions for admission to the programme (in particular with regard to the student’s linguistic aptitude for the programme) and for enrolment arise out of the Regulations for the Procedure of Enrolment, Leave of Absence, and Termination of Enrolment at the University of Applied Sciences Würzburg-Schweinfurt (FHWS Enrolment Regulations) in its current version.

(3) ¹In addition to the conditions under (1), evidence must be provided of practical experience of at least six weeks that is appropriate for the bachelor’s programme Business and Engineering (pre-study internship). ²The pre-study internship must fulfil the following subject-specific requirements:

- Teaching of consolidated knowledge regarding the purpose, principle, and importance of various customary production processes as well as about the working methods of corresponding production equipment and machines.

- Teaching of consolidated knowledge regarding the properties and behaviour of the most important materials of mechanical engineering with processing and use.

- Insights into technical and organisational connections of the production process as well as experience in the operational working environment and with the social structures of the company.

³The pre-study internship is preferably to be completed continuously and before the start of studies.

⁴If admission to the bachelor's programme Business and Engineering is not restricted, there is the possibility to make up for the pre-study internship until the end of the second programme semester.

⁵The pre-study internship should be completed in a company or another appropriate institution and cover at least 35 hours per week.
2. Programme Structure

§ 4 Standard Time to Degree and Start of the Programme

(1) The standard time to degree is seven semesters with a total of 210 credit points in accordance with the European Credit Transfer and Accumulation System (ECTS, hereinafter referred to as ECTS credits).

(2) The programme begins in the winter semester.

§ 5 Programme Structure and Modules

(1)¹ The programme structure is determined by the appendix to these study and examination regulations.

(2)² Core Electives in accordance with § 7 (3) APO serve the development of advanced competencies; therefore, they have an immediate thematic relation to other modules of the bachelor’s programme Business and Engineering.³ The offer includes the following subject areas: economics/business studies and engineering. ⁴Every student has to select core electives with 20 ECTS credits each from economics/business studies as well as engineering. ⁵ Choice is made by taking a core elective’s exam for the first time. ⁶ Modules with the best grades up to the total of ECTS credits mentioned above are included in the calculation of the degree grade, unless the student makes a different binding selection to the Department of Student Affairs (HSST) before the degree certificate is issued.

(3)¹ The Faculty of Business and Engineering can assign core modules and elective modules to individual areas of specialisation modules; when doing so, one core module or elective module may be assigned to more than one area of specialisation. ² The Faculty regulates the arrangements for the recognition of core modules and elective modules as specialisation modules and their assignment to the individual areas of specialisation.

a) Areas of specialisation in the field of engineering (e.g. mechanical engineering, electrical engineering, mechatronics)

- If students take core modules and elective modules corresponding to 25 ECTS credits from the field of engineering, this is recognised as their area of specialisation. The modules in an area of specialisation comprise two fixed modules, two elective modules and one laboratory certificate related to the respective area of specialisation.
- If an elective module is assigned to more than one area of specialisation, it may only be taken into account once per student for the recognition of an area of specialisation. In this case, the student shall be responsible for deciding the area of specialisation for which the elective module taken is to be considered.

b) Areas of specialisation in the field of economics/business studies (e.g. production, sales, controlling, purchase, digital business)

- If students take core modules and elective modules corresponding to 20 CP from the field of economics/business studies, this is recognised as their area of specialisation. The modules of this area of specialisation comprise two fixed modules and two elective modules.
- If an elective module is assigned to more than one area of specialisation, it may only be taken into account once per student for the recognition of an area of specialisation. In this
case, the student shall be responsible for deciding the area of specialisation for which the elective module taken is to be considered.

§ 6
Internship Module

(1) The Internship Module consists of
   a) a continuous, supervised internship lasting at least 20, but no more than 26 weeks;
   b) a seminar preparing and reflecting the internship.

(2) Only students who have gained 90 ECTS credits from the first three semesters by the time of the start of the internship are entitled to enter the Internship Module.

(3) The seminar preparing and reflecting the internship takes place as a block course shortly before, during or after the Internship Module. Contents are described in the training plan. The seminar preparing and reflecting the internship is deemed to be successfully completed if a multimedia presentation or a documentation report about the supervised internship has been delivered and "passed with success."

(4) The Internship Module is deemed to be successfully completed if the conditions mentioned in § 11 (7) Sentence 1 APO have been met.

(5) The Internship Module is assessed at 30 ECTS credits and the grade “passed successfully” or “failed”.

3.
Examinations, Deadlines, Academic Degree

§ 7
Supplementary Regulation for Other Types of Assessments (sonstige Prüfungsleistungen)

(1) The topic set for the research/engineering project should be such that the work can generally be completed in two or a maximum of three weeks if it is worked on continuously to the exclusion of everything else. After the research/engineering project paper is submitted, the paper is presented by the student in accordance with § 26 (4) APO.

(2) In deviation from § 27 (1) Sentence 3 APO, a documentation report is a written compilation of all the information related to the assigned topic in the range of 10 to 15 pages. In deviation from § 27 (1) Sentence 4 APO, the time frame for the interview during a colloquium is 15 to 30 minutes. In deviation from § 27 (1) Sentence 5 APO, the written assignment’s range is 10 to 30 pages. To substantiate § 27 (1) Sentence 6 APO, a portfolio assignment is a written summary in the range of 10 to 15 pages or a summary delivered orally in an appropriate time.

§ 8
Bachelor’s Thesis

(1) Students may start work on their bachelor’s thesis not before
   a) the Internship Module has been passed successfully as well as
   b) at least 150 ECTS credits have been earned.
   Exceptions may be approved by the examination committee.

(2) The topic set should be such that the thesis can generally be completed within a period of eight weeks if it is worked on continuously to the exclusion of everything else.
§ 9

Standard deadlines

(1) The following examinations are considered to be for foundation modules in the meaning of § 39 (1) Sentence 1 APO

- Mathematics - Basics as well as
- Physics

and must be taken for the first time no later than by the end of the second programme semester.

(2) ¹Any examination for modules scheduled for the first two semesters (according to the appendix of these Study and Examination Regulations) with the exception of the foundation modules’ examinations as per (1) must be taken for the first time within the first three programme semesters. ²Any examination for modules scheduled for the third and fourth semester must be taken within the first six programme semesters. ³Any examination for modules scheduled for the fifth to seventh semester must be taken within the first six programme semesters. ⁴If students have exceeded one of these deadlines for reasons for which they are responsible, any examination that has not been taken on-time is regarded as having been taken for the first time and is awarded the grade “non-sufficient” (Fristfünf).

4. Organisational Matters

§ 10

Examination Committee (Prüfungskommission)

The number of additional members of the examination committee in accordance with § 20 (1) Sentence 3 APO for the bachelor’s programme in Business and Engineering is three.

5. Academic Degree, Concluding Provisions

§ 11

Academic Degree

After successful completion of the bachelor’s examination, graduates are awarded the academic degree Bachelor of Engineering (abbrev. “B.Eng.”).

§ 12

Coming into Effect, Expiration

These study and examination regulations shall come into effect on 1 October 2019.

§ 13

Transitional Provisions

(1) The current version of the study and examination regulations applies in connection with the APO of 28 January 2019 to all students in the bachelor’s programme Business and Engineering.

(2) The appendix to these study and examination regulations for the bachelor’s programme Business and Engineering applies to all students who have begun their studies on 1 October 2017 or later.
(3) ¹For students having commenced their studies between 1 October 2014 and 30 September 2017, these study and examination regulations for the bachelor’s programme Business and Engineering applies in connection with the appendix to the study and examination regulations for the bachelor’s programme Business and Engineering dated 20 October 2015.

(4) ¹For students having commenced their studies between 1 October 2014 and 30 September 2017, these study and examination regulations for the bachelor’s programme Business and Engineering applies in connection with the appendix to the study and examination regulations for the bachelor’s programme Business and Engineering dated 20 October 2015.

Drawn up on the basis of the resolution of the Senate of the University of Applied Sciences Würzburg-Schweinfurt of 17 June 2019 and the approval of the President of the University of Applied Sciences Würzburg-Schweinfurt dated 28 June 2019.

Würzburg, 28 June 2019

Professor Dr. Robert Grebner
President

These study and examination regulations for the bachelor’s programme Business and Engineering were set down on 28 June 2019 at the University of Applied Sciences Würzburg-Schweinfurt. This was announced on 28 June 2019 in a poster. The date of publication is 28 June 2019.