

# Anlage 2 der Fachprüfungsordnung für den Bachelor-Studiengang „Lebensmitteltechnologie“ – Diploma Supplement



Hochschule Neubrandenburg  
University of Applied Sciences

## Hochschule Neubrandenburg (University of Applied Sciences)

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### Diploma Supplement

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

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#### 1. HOLDER OF THE QUALIFICATION

##### 1.1 Family Name / 1.2 First Name

N.N.

##### 1.3 Date, Place, Country of Birth

N.N.

##### 1.4 Student ID Number or Code

Not of public interest

#### 2. QUALIFICATION

##### 2.1 Name of Qualification

Bachelor of Science "Lebensmitteltechnologie" (B. Sc. Lebensmitteltechnologie)

**Title Conferred** (full, abbreviated; in original language)

Bachelor of Science (B.Sc)

##### 2.2 Main Field(s) of Study

Food Technology

##### 2.3 Institution Awarding the Qualification

Hochschule Neubrandenburg, Fachbereich Agrarwirtschaft und Lebensmittelwissenschaften

**Status (Type / Control)**

University of Applied Sciences / State Institution

##### 2.4 Institution Administering Studies (in original language)

See 2.3

**Status (Type / Control)**

See 2.3

##### 2.5 Language(s) of Instruction/Examination

Mainly German

Certification Date:

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Chairman Examination Committee

### 3. LEVEL OF THE QUALIFICATION

#### 3.1 Level

First degree

#### 3.2 Official Length of Programme

3.5 years, full time

#### 3.3 Access Requirements

General higher education entrance qualification (Abitur) or specialized food - industry related education

### 4. CONTENTS AND RESULTS GAINED

#### 4.1 Mode of Study

Full-time, 3.5 years, which include one semester of industry internship

#### 4.2 Programme Requirements/Qualification Profile of the Graduate

The program combines all fields of science and technology relevant for processing, quality assurance and distribution of foods, e.g. mathematics/statistics, chemistry, physics, human nutrition, raw materials, microbiology/hygiene, process engineering, packaging, technology of specific food items (meat, fish, dairy, confectionery, cereals, fruits, vegetables, oils), food biotechnology, and supply/waste management. Additional courses cover food and environmental legislation, management and business administration and computer application. Courses comprise lectures, seminar teaching, lab- and pilot-plant work and an internship in industry of one semester. An interdisciplinary education is promoted by case studies and project-related work. The study program will be completed with a bachelor thesis..

#### 4.3 Programme Details

For details see list of courses and Examination Certificate (Prüfungszeugnis)

#### 4.4 Grading Scheme

General grading scheme cf. Sec. 8.6- Grade Distribution (Award year) "sehr gut" (very good): 1,0 – 1,3; "gut" (good): 1,7 – 2,3; "befriedigend" (satisfactory): 2,7 – 3,3; "ausreichend" (sufficient): 3,7 - 4,0; "nicht ausreichend" (fail) > 4,0

#### 4.5 Overall Classification (in original language)

«GesNoteTE»

Based on weighted average of grades in examination fields.



## 5. FUNCTION OF THE QUALIFICATION

### 5.1 Access to Further Study

Qualifies to apply for admission to the Master study program of "Lebensmittel- und Bioprodukttechnologie" (Food- and Non-Food Technology) (in accordance with the corresponding *Master-Fachprüfungsordnung*)

### 5.2 Professional Status

The Bachelor-degree in an engineering discipline entitles its holder to the legally protected professional title "Ingenieur" and to exercise professional work in the field of engineering for which the degree was awarded.

## 6. ADDITIONAL INFORMATION

### 6.1 Additional Information

Further information sources on the institution: [www.hs-nb.de](http://www.hs-nb.de); on the program [www.hs-nb.de/Technologie/](http://www.hs-nb.de/Technologie/)  
For national information sources cf. Sect. 8.8

### 6.2 Further Information Sources

## 7. CERTIFICATION

This Diploma Supplement refers to the following original documents:

Urkunde über die Verleihung des Grades vom [Date]

Prüfungszeugnis vom [Date]

Transcript of Records vom [Date]

Certification

Date:

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Chairperson Examination Committee

(Official Stamp/Seal)

## 8. NATIONAL HIGHER EDUCATION SYSTEM

The information on the national higher education system on the following pages provides a context for the qualification and the type of higher education that awarded it.

## 8. NATIONAL HIGHER EDUCATION SYSTEM

### 8. INFORMATION ON THE GERMAN HIGHER EDUCATION SYSTEM<sup>1</sup>

#### 8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI).<sup>2</sup>

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.

- *Fachhochschulen* (Universities of Applied Sciences) concentrate their study programmes in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies an application-oriented focus of studies, which includes integrated and supervised work assignments in industry, enterprises or other relevant institutions.

- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

#### 8.2 Types of Programmes and Degrees Awarded

Studies in all three types of institutions have traditionally been offered in integrated "long" (one-tier) programmes leading to *Diplom-* or *Magister Artium* degrees or completed by a *Staatsprüfung* (State Examination).

Within the framework of the Bologna-Process one-tier study programmes are successively being replaced by a two-tier study system. Since 1998, two-tier degrees (Bachelor and Master) have been introduced in almost all study programmes. This change is designed to provide enlarged variety and flexibility to students in planning and pursuing educational objectives, they also enhance international compatibility of studies.

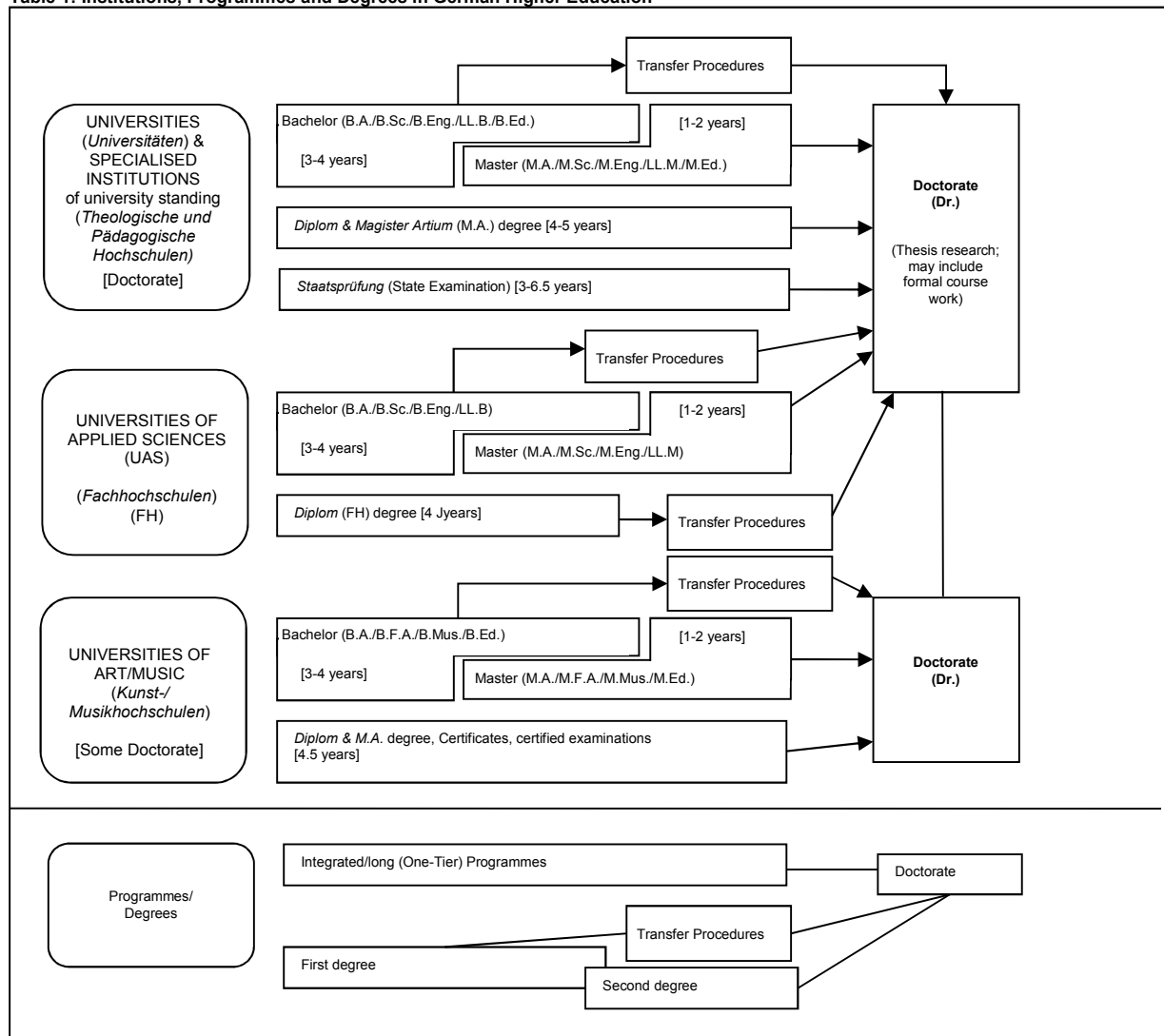
The German Qualifications Framework for Higher Education Degrees<sup>3</sup>, the German Qualifications Framework for Lifelong Learning<sup>4</sup> and the European Qualifications Framework for Lifelong Learning<sup>5</sup> describe the degrees of the German Higher Education System. They contain the classification of the qualification levels as well as the resulting qualifications and competencies of the graduates.

For details cf. Sec. 8.4.1, 8.4.2, and 8.4.3 respectively. Table 1 provides a synoptic summary.

#### 8.3 Approval/Accreditation of Programmes and Degrees

To ensure quality and comparability of qualifications, the organization of studies and general degree requirements have to conform to principles and regulations established by the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany (KMK).<sup>6</sup> In 1999, a system of accreditation for programmes of study has become operational under the control of an Accreditation Council at national level. All new programmes have to be accredited under this scheme; after a successful accreditation they receive the quality-label of the Accreditation Council.<sup>7</sup>

**Table 1: Institutions, Programmes and Degrees in German Higher Education**



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### 8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the study programmes makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

#### 8.4.1 Bachelor

Bachelor degree study programmes lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years.

The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.<sup>8</sup>

First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.Mus.) or Bachelor of Education (B.Ed.).

The Bachelor degree corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

#### 8.4.2 Master

Master is the second degree after another 1 to 2 years. Master study programmes may be differentiated by the profile types "practice-oriented" and "research-oriented". Higher Education Institutions define the profile.

The Master degree study programme includes a thesis requirement. Study programmes leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.<sup>9</sup>

Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (L.L.M.), Master of Fine Arts (M.F.A.), Master of Music (M.Mus.) or Master of Education (M.Ed.). Master study programmes which are designed for continuing education may carry other designations (e.g. MBA).

The Master degree corresponds to level 7 of the German Qualifications Framework/ European Qualifications Framework.

#### 8.4.3 Integrated "Long" Programmes (One-Tier): Diplom degrees, Magister Artium, Staatsprüfung

An integrated study programme is either mono-disciplinary (*Diplom* degrees, most programmes completed by a *Staatsprüfung*) or comprises a combination of either two major or one major and two minor fields (*Magister Artium*). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (*Diplom-Vorprüfung* for *Diplom* degrees; *Zwischenprüfung* or credit requirements for the *Magister Artium*) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a *Staatsprüfung*. The level of qualification is equivalent to the Master level.

- Integrated studies at *Universitäten (U)* last 4 to 5 years (*Diplom* degree, *Magister Artium*) or 3 to 6.5 years (*Staatsprüfung*). The *Diplom* degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the *Magister Artium* (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical and pharmaceutical professions are completed by a *Staatsprüfung*. This applies also to studies preparing for teaching professions of some *Länder*.

The three qualifications (*Diplom*, *Magister Artium* and *Staatsprüfung*) are academically equivalent and correspond to level 7 of the German Qualifications Framework/ European Qualifications Framework.

. They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 8.5.

- Integrated studies at *Fachhochschulen (FH)*/Universities of Applied Sciences (UAS) last 4 years and lead to a *Diplom (FH)* degree which corresponds to level 6 of the German Qualifications Framework/ European Qualifications Framework.

. While the *FH/UAS* are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 8.5.

- Studies at *Kunst- and Musikhochschulen* (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to *Diplom/Magister* degrees, the integrated study programme awards include Certificates and certified examinations for specialized areas and professional purposes.

### 8.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a *Magister* degree, a *Diplom*, a *Staatsprüfung*, or a foreign equivalent. Comparable degrees from universities of art and music can in exceptional cases (study programmes such as music theory, musicology, pedagogy of arts and music, media studies) also formally qualify for doctoral work. Particularly qualified holders of a Bachelor or a *Diplom (FH)* degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor.

The doctoral degree corresponds to level 8 of the German Qualifications Framework/ European Qualifications Framework.

### 8.6 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "*Sehr Gut*" (1) = Very Good; "*Gut*" (2) = Good; "*Befriedigend*" (3) = Satisfactory; "*Ausreichend*" (4) = Sufficient; "*Nicht ausreichend*" (5) = Non-Sufficient/Fail. The minimum passing grade is "*Ausreichend*" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

In addition, grade distribution tables as described in the ECTS Users' Guide are used to indicate the relative distribution of grades within a reference group.

### 8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife*, *Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission at Fachhochschulen (UAS), universities and equivalent higher education institutions, but only in particular disciplines. Access to study programmes at *Fachhochschulen* (UAS) is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to study programmes at Universities of Art/Music and comparable study programmes at other higher education institutions as well as admission to a study programme in sports may be based on other or additional evidence demonstrating individual aptitude.

Applicants with a vocational qualification but without a school-based higher education entrance qualification are entitled to a general higher education entrance qualification and thus to access to all study programmes, provided they have obtained advanced further training certificates in particular state-regulated vocational fields (e.g. *Meister/Meisterin im Handwerk*, *Industriemeister/in*, *Fachwirt/in (IHK und HWK)*, *staatlich geprüfte/r Betriebswirt/in*, *staatliche geprüfte/r Gestalter/in*, *staatlich geprüfte/r Erzieher/in*). Vocationally qualified applicants can obtain a *Fachgebundene Hochschulreife* after completing a state-regulated vocational education of at least two years' duration plus professional practice of normally at least three years' duration, after having successfully passed an aptitude test at a higher education institution or other state institution; the aptitude test may be replaced by successfully completed trial studies of at least one year's duration.<sup>10</sup>

Higher Education Institutions may in certain cases apply additional admission procedures.

### 8.8 National Sources of Information

- *Kultusministerkonferenz (KMK)* [Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany]; Graurheindorfer Str. 157, D-53117 Bonn; Fax: +49[0]228/501-777; Phone: +49[0]228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: [zab@kmk.org](mailto:zab@kmk.org)
- "Documentation and Educational Information Service" as German EURYDICE-Unit, providing the national dossier on the education system (<http://www.kmk.org/dokumentation/zusammenarbeit-auf-europaeischer-ebene-im-eurydice-informationsnetz.html>); E-Mail: [eurydice@kmk.org](mailto:eurydice@kmk.org)
- *Hochschulrektorenkonferenz (HRK)* [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49[0]228/887-110; Phone: +49[0]228/887-0; www.hrk.de; E-Mail: [post@hrk.de](mailto:post@hrk.de)
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. ([www.higher-education-compass.de](http://www.higher-education-compass.de))

Diploma Supplement

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- 1 The information covers only aspects directly relevant to purposes of the Diploma Supplement. All information as of January 2015.
- 2 *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the *Länder*. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.
- 3 German Qualifications Framework for Higher Education Degrees. (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 21 April 2005).
- 4 German Qualifications Framework for Lifelong Learning (DQR). Joint resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany, the German Federal Ministry of Education and Research, the German Conference of Economics Ministers and the German Federal Ministry of Economics and Technology (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 15 November 2012). More information at [www.dqr.de](http://www.dqr.de)
- 5 Recommendation of the European Parliament and the European Council on the establishment of a European Qualifications Framework for Lifelong Learning of 23 April 2008 (2008/C 111/01 – European Qualifications Framework for Lifelong Learning – EQF).
- 6 Common structural guidelines of the *Länder* for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 10.10.2003, as amended on 04.02.2010).
- 7 "Law establishing a Foundation 'Foundation for the Accreditation of Study Programmes in Germany'", entered into force as from 26 February 2005, GV. NRW. 2005, No. 5, p. 45 in connection with the Declaration of the *Länder* to the Foundation "Foundation: Foundation for the Accreditation of Study Programmes in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 16 December 2004).
- 8 See note No. 7.
- 9 See note No. 7.
- 10 Access to higher education for applicants with a vocational qualification, but without a school-based higher education entrance qualification (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the *Länder* in the Federal Republic of Germany of 6 March 2009).

Further information sources on the institution: [www.hs-nb.de](http://www.hs-nb.de); on the program [www.hs-nb.de/Technologie/](http://www.hs-nb.de/Technologie/)  
For national information sources cf. Sect. 8.8



<b>Study Program “Food Technology” (Bachelor)</b>			
1. Term	Mathematics	Technical mechanics & Electrical Engineering	Introduction to Engineering
	Statistics	Human Nutrition & Food Science (I)	
2. Term	Chemistry	1 <sup>st</sup> Bachelor Project	Fluid Mechanics & Thermodynamics
	Human Nutrition & Food Science (II)	Product related Physics	Food Law/ Food Legislation
3. Term	Microbiology & Biochemistry	Principles of Mechanic Processing	English
	Sensorical Evaluation of Foods	Technology of Packaging	Business Economics & Cost Calculation
4. Term	Dairy Technology	Principles of Thermic Processing	Supply- & Waste Management
	Biotechnology	Quality Management & Food Microbiology	
5. Term	Meat Technology	2 <sup>nd</sup> Bachelor Project (incl. Seminar)	Electives: -Fermentation Technology -Technology of Biogenic Energy Resources
	Technology of Confectionery & Beverages		
	Technology of Vegetables, Fruits & Oils		
6. Term	Food Chemistry	Purchase Management & Business Organization	Technology of Cereals & Baking
7. Term	Internship in Industry		
	Advanced Academic Procedures	Bachelor Thesis	