

Subdivided Module Catalogue for the Subject

Food Chemistry

as a Bachelor's with 1 major
with the degree "Bachelor of Science"
(180 ECTS credits)

Examination regulations version: 2016
Responsible: Faculty of Chemistry and Pharmacy
Responsible: Institute of Pharmacy and Food Chemistry

Learning Outcomes

German contents and learning outcome available but not translated yet.

Wissenschaftliche Befähigung

- Die Absolventinnen und Absolventen können für die Beantwortung einer lebensmittelchemischen Fragestellung relevante Analyten auswählen und anhand der von ihnen ermittelten validen Analysenergebnisse korrekt die Identität und Qualität von Lebensmitteln bewerten.
- Um für lebensmittelchemische Fragestellungen relevante Analyten auswählen zu können, besitzen die Absolventinnen und Absolventen Grundkenntnisse aus den Bereichen der Biologie (insbesondere Botanik), Biochemie, Mikrobiologie, Chemie und Technologie der Lebensmittel. Diese eignen sie sich in den Lehrveranstaltungen der entsprechenden Module an und weisen ihr Wissen mit dem Bestehen der dazu gehörigen Klausuren nach.
- Um eine geeignete Bestimmungsmethode für den oder die Analyten auszuwählen, kennen die Absolventinnen und Absolventen zum einen die möglichen analytische Methoden und verstehen auf welchen chemischen und physikalischen Prinzipien diese basieren, und zum anderen verfügen sie über Kenntnisse im Bereich der Warenkunde und Lebensmittelchemie, um die Eignung einer Methode auch hinsichtlich erwarteter Menge, der Matrix des Lebensmittels und möglicher Interferenzen beurteilen zu können. Dass sich die Absolventinnen und Absolventen in Veranstaltungen der entsprechenden Module diese Kompetenzen aneignen, zeigen sie durch das Bestehen der jeweiligen Abschlussklausuren.
- Die Absolventinnen und Absolventen können bei der Versuchsplanung bisher angeeignetes Fachwissen auf konkrete experimentelle oder theoretische Aufgabenstellungen anwenden, systematische Einflussfaktoren und Fehlerquellen identifizieren sowie sicherheitsrelevante Aspekte berücksichtigen. Das hierfür notwendige Abstraktionsvermögen, die Problemlösungsstrategien und die Fähigkeit, komplexe Zusammenhänge zu strukturieren, eignen sich die Studierenden Schritt für Schritt an, indem sie in den chemischen Praktika vom ersten Semester an keine fertigen Versuchsvorschriften bearbeiten, sondern das Vorgehen für in jedem Semester komplexer werdenden anwendungsbezogenen Fragestellungen aus dem lebensmittelchemischen Alltag unter Begleitung der Lehrenden selbstständig entwickeln und in der Gruppe zu diskutieren. Dies beinhaltet auch das Festlegen geeigneter Qualitätssicherungsmaßnahmen zur Sicherstellung der Validität der Ergebnisse. Nach der Präsentation und Diskussion der geplanten Vorgehensweisen in Seminaren und Besprechungen, sowohl untereinander als auch mit der Lehrperson, zeigen die Studierenden, dass die geplanten Vorgehensweisen in den jeweiligen Praktika auch praktisch sicher umgesetzt und transparent dokumentiert werden können.
- Die Absolventinnen und Absolventen können die Aussagekraft und Limitierungen der Analysenergebnisse für den geplanten Zweck beurteilen. Durch die fachliche Begleitung der Praktikumsversuche, anstatt der Abnahme der Entscheidung über Richtig und Falsch durch die Lehrenden, übernehmen die Studierenden für die in den Praktika generierten Werte selbst Verantwortung.
- Auf die abschließende Beurteilung der Identität und Qualität der Lebensmittel aufgrund des Gesamtbildes der Analysenergebnisse werden die Studierenden durch die begleitete statistische Analyse der in den ersten vier Semestern von ihnen produzierten Analysenergebnissen hingeführt. In den letzten beiden Semestern erfolgt die Beurteilung der Qualität und Identität selbstständig mithilfe der Anwendung des theoretischen Fachwissens in den Disziplinen der Biologie, Biochemie, Mikrobiologie, Chemie und Technologie der Lebensmittel und geeigneter statistischen Methoden.

Befähigung zur Aufnahme einer Erwerbstätigkeit

- Die beschriebene wissenschaftliche Befähigung entspricht essentiell den Anforderungen an eine/einen in einem Handelslabor tätigen LebensmittelchemikerIn ohne Aufgaben in der Methodenentwicklung. Mit den beschriebenen Kompetenzen ist zudem die Übernahme von Aufgaben

im Bereich des Qualitätsmanagements in lebensmittel- und pharmazeutikaproduzierenden Betrieben möglich.

- Neben den rein fachlichen Kompetenzen kommen den Absolventinnen und Absolventen im Berufsleben die im Studium gesammelte Erfahrung mit Problemlösungsstrategien, erfolgreicher, zielorientierter Zusammenarbeit im Team und Eigenverantwortlichkeit zugute.

Persönlichkeitsentwicklung

- Die Absolventinnen und Absolventen wenden seit dem ersten Semester die Regeln guter wissenschaftlicher Praxis an und beachten sie. Die Lehrenden fördern zudem die Selbstverantwortung für den Wissenserwerb sowie ein an wissenschaftlichen Werten orientiertes Denken und Handeln. Das eigenverantwortliche Vertreten der Analysenergebnisse in den Praktika fördert das Bewusstsein für Selbstreflexion, Offenheit, Verlässlichkeit, Überprüfbarkeit, Transparenz, Objektivität und Eindeutigkeit.

Befähigung zum gesellschaftlichen Engagement

- Die Absolventinnen und Absolventen haben ihr Wissen bezüglich wirtschaftlicher, gesellschaftlicher und naturwissenschaftlicher Fragestellungen erweitert und können begründet Position beziehen. Durch die Behandlung aktueller Fragestellungen im Bereich des Verbraucherschutzes in den Lehrveranstaltungen werden die Studierenden für die wirtschaftliche und gesellschaftliche Bedeutung ihrer Tätigkeiten sensibilisiert und werden ermutigt ihre im Studium erarbeiteten Kompetenzen aktiv in die Gesellschaft einzubringen.

Abbreviations used

Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

27-Jul-2016 (2016-92)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
Compulsory Courses (150 ECTS credits)				
10-M-MCB-152-m01	Mathematics for students in Chemistry and Biology	5	NUM	32
07-LMC-BIO1-152-m01	General Biology of Economic Plants from Food and Forage	7	NUM	9
08-LMC-AC1-152-m01	General and Inorganic Chemistry for Food Chemistry Students	14	NUM	16
11-EFNF-152-m01	Introduction to Physics for Students of other Disciplines	7	NUM	34
11-PFNF-152-m01	Laboratory Course Physics for Students of other Disciplines	3	B/NB	40
08-LMC-AC2-152-m01	Quantitative Inorganic Chemistry for Food Chemistry Students	5	NUM	18
08-LMC-AC3-152-m01	Quantitative Inorganic Analysis for Food Chemistry Students	14	B/NB	19
08-PC-Bio-152-m01	Physical Chemistry for Biology Majors	5	NUM	31
08-LMC-OC-152-m01	Organic Chemistry Including Nomenclature and Stereochemistry for Food Chemistry Students	10	NUM	29
08-LMC-OCP-152-m01	Practical Course in Organic Chemistry for Food Chemistry Students	10	B/NB	30
03-TR-152-m01	Toxicology and legal studies	3	NUM	7
08-BC1-152-m01	Biochemistry 1	5	NUM	12
08-BC2-152-m01	Biochemistry 2	5	NUM	14
08-LMC-IA-152-m01	Introduction to Instrumental Analysis for Food Chemistry Students	5	NUM	23
08-LMC-LMA-152-m01	Instrumental Analysis for Food Chemistry Students	10	B/NB	24
08-LMC-LMCo-162-m01	Introduction to Food Chemistry	5	NUM	25
07-LMC-BIO2-152-m01	Microbiology for Food Chemistry students	5	B/NB	11
03-LMC-HYG-152-m01	Microbiology of Food and Hygiene for Food Chemistry Students	5	NUM	6
08-LMC-LMC-162-m01	Food Chemistry	14	NUM	26
08-LMC-LMCP-152-m01	Practical Course in Food Chemistry	13	B/NB	27
Key Skills Area (20 ECTS credits)				
General Key Skills (5 ECTS credits)				
Students may select any of the modules offered as part of the pool of general transferable skills (ASQ) of JMU.				
Subject-specific Key Skills (15 ECTS credits)				
Subject-specific Key Skills, Compulsory Courses (15 ECTS credits)				
08-LMC-FSQ1-162-m01	Analysis Strategies	5	B/NB	21
08-LMC-FSQ2-152-m01	Quality Management	5	B/NB	22
08-LMC-MBA-152-m01	Introduction to Molecular Biological Analysis for Food Chemistry Students	5	B/NB	28
Thesis (10 ECTS credits)				
08-LMC-BA-152-m01	Bachelor Thesis Food Chemistry	10	NUM	20

Module title		Abbreviation
Microbiology of Food and Hygiene for Food Chemistry Students		03-LMC-HYG-152-m01
Module coordinator		Module offered by
Institute of Hygiene and Microbiology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The students will gain knowledge on food-related topics of hygiene and microbiology. This includes relevant, food-contaminating microorganisms and the infections/diseases they provoke; antimicrobial drugs/substances; hygiene management, food decay.		
Intended learning outcomes		
Students gain knowledge on food microbiology and hygiene: fundamentals of microbial systematics, morphology, cytology and physiology; knowledge on the role of pathogens (microorganisms, toxin producers, viruses, prions, parasites) for food chemistry and food technology (decay, intoxications, analytical microbiology, biotechnology); knowledge on the diagnosis and cultivation of microorganisms; knowledge on microbial inactivation (disinfection, sterilisation); fundamentals of the pathogenesis of important human pathogens and clinical consequences of microbial infection; fundamentals of medically relevant anti-infectives and the development of drug resistances.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + P (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. II 2. Letter f) and No. II 1. Letter b) of Annex 1 of APOLmCh and No. 4 of Annex 3 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Food Chemistry (2025)		

Module title		Abbreviation
Toxicology and legal studies		03-TR-152-m01
Module coordinator		Module offered by
lecturer of lecture "Toxikologie und Rechtskunde"		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
3	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Basics of legal regulations for chemists (handling and transportation of hazardous materials), fundamentals of toxicology.		
Intended learning outcomes		
The students master the basics of legal regulations for chemists (handling and transport of hazardous substances) as well as the fundamentals of toxicology.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (1) + V (1)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 90 minutes)		
Allocation of places		
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Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter g) and i) and No. II 1st letter d) of annex 1 to the APOLmCh and No. 5 and 6 of annex 3 to the APOLmCh		
Workload		
90 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 22 II Nr. 1 h) § 22 II Nr. 2 f) § 22 II Nr. 3 f)		
Module appears in		
Bachelor's degree (1 major) Biochemistry (2015) Bachelor's degree (1 major) Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2015) First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) Master's degree (1 major) Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Biochemistry (2017) Bachelor's degree (1 major) Chemistry (2017)		
Bachelor's with 1 major Food Chemistry (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016	page 7 / 45

Master's degree (1 major) Chemistry (2018)
 Bachelor's degree (1 major) Food Chemistry (2019)
 First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))
 First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2020 (Prüfungsordnungsversion 2015))
 First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2020 (Prüfungsordnungsversion 2015))
 Bachelor's degree (1 major) Food Chemistry (2021)
 Bachelor's degree (1 major) Biochemistry (2022)
 Master's degree (1 major) Chemistry (2024)
 Bachelor's degree (1 major) Food Chemistry (2025)

Module title		Abbreviation
General Biology of Economic Plants from Food and Forage		07-LMC-BIO1-152-mo1
Module coordinator		Module offered by
holder of the Chair of Plant Physiology and Biophysics		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
7	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
<p>The first part of the winter semester course will discuss the plant cell, the smallest unit of the plant organism, starting with its macroscopic structure before moving on to its microscopic structure. The course will point out differences and similarities between prokaryotic cells (bacteria, archaeobacteria) and eukaryotic cells (animals, plants). In the second part of the winter semester course, students will acquire the fundamental knowledge necessary to understand the form (anatomy, morphology and cytology) and function of plant organisms. The summer semester course will introduce students to the fundamental principles of botany, using the example of food and fodder crops. Taking into account their taxonomy, morphology and cytology, the course will discuss the photosynthesis as well as other physiological and genetic aspects of selected crops and their compounds as well as aspects related to the breeding of these crops. In this context, the course will point out differences that may be used, for example, for the microscopic identification of a variety of food and fodder crops.</p>		
Intended learning outcomes		
<p>In the winter semester, students have acquired a knowledge of the structure of plant cells and their (biological) macromolecules as well as of the specific characteristics of the intracellular and extracellular structures of plant cells. In the summer semester, students have acquired the following knowledge and skills:</p> <ul style="list-style-type: none"> • Fundamental knowledge of the distinguishing characteristics, genetics, photosynthesis and physiology of representatives of the plant kingdom with special attention to crops. • Fundamental knowledge of major anatomical and morphological plant traits as well as of the compounds of food and fodder crops. • Fundamental knowledge of the components and functioning of microscopes. • Fundamental preparation skills. • Basic familiarity with methods for the microscopic examination of crops. • Fundamental skills in the interpretation of macroscopic and histological plant preparations by light microscopy. 		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + V (1) + P (4)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. 1 2. Letter e) of Annex 1 of APOLmCh and No. 5 of Annex 2 of APOLmCh.		
Workload		
210 h		

Teaching cycle
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Referred to in LPO I (examination regulations for teaching-degree programmes)
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Module appears in
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Food Chemistry (2025)

Module title		Abbreviation
Microbiology for Food Chemistry students		07-LMC-BIO2-152-m01
Module coordinator		Module offered by
holder of the Chair of Microbiology		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module comprises a lecture and accompanying exercises. During the theoretical part, students will acquire the fundamentals of bacteriology; during exercises, these will be illustrated by help of suitable experiments. The lecture will acquaint students with the fundamental principles of the cultivation, enrichment, identification and control of bacteria. In addition, it will explore the significance of bacteria both for global nutrient cycles and as mutualists, commensals and pathogens in humans. The lecture will also discuss the significance of bacteria as producers of antibiotics, the role of bacteriophages and horizontal gene transfer. During exercises, students will apply fundamental techniques for the cultivation and isolation of bacteria and will test the efficacy of a range of sterilisation and disinfection methods. They will also apply both classical macroscopic and microscopic methods for the identification and classification of bacteria. Additional exercises will provide students with an opportunity to perform experiments on antibiotic sensitivity/resistance and horizontal gene transfer.</p>		
Intended learning outcomes		
<p>Students are familiar with the fundamental principles of bacteriology. They are familiar with simple experimental techniques for addressing scientific issues in bacteriology and are able to apply these (e. g. detection and identification of bacteria).</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (3)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
<p>Log (approx. 30 pages) Assessment offered: Once a year, summer semester</p>		
Allocation of places		
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Additional information		
<p>Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. II 2. Letter f) and No. II 1. Letter b) of Annex 1 of APOLmCh and No. 4 of Annex 3 of APOLmCh.</p>		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
<p>Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Food Chemistry (2025)</p>		
Bachelor's with 1 major Food Chemistry (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016	page 11 / 45

Module title		Abbreviation
Biochemistry 1		o8-BC1-152-m01
Module coordinator		Module offered by
holder of the Chair of Biochemistry		Chair of Biochemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Comprising lectures and exercises, this module acquaints students with the fundamental principles of biochemistry. A particular focus is on the biochemistry of proteins (amino acids, peptide bonds, primary, secondary, tertiary and quaternary structures), catalytic strategies and enzyme kinetics, carbohydrate metabolism (glycolysis, gluconeogenesis, citric acid cycle, cellular respiration, photosynthesis), fatty acid metabolism (beta oxidation, fatty acid synthesis), nucleotide metabolism, the urea cycle and amino acid metabolism. The module also discusses the structure of the DNA and the central dogma of molecular biology.		
Intended learning outcomes		
Students have become familiar with the fundamental principles of the topics in biochemistry that were discussed in the module. They are able to describe the key biochemical processes in cellular systems.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (1)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 60 to 90 minutes)		
Allocation of places		
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Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter e) and No. II 1st letter c) of annex 1 to the APOLmCh and No. 3 of annex 3 to the APOLmCh		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 42 I Nr. 2 § 62 I Nr. 2		
Module appears in		
Bachelor's degree (1 major) Biochemistry (2015) Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Functional Materials (2015) First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Biology (2017)		
Bachelor's with 1 major Food Chemistry (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016	page 12 / 45

Bachelor's degree (1 major) Biochemistry (2017)
 Bachelor's degree (1 major) Chemistry (2017)
 Module studies (Bachelor) Chemistry (2019)
 Bachelor's degree (1 major) Food Chemistry (2019)
 Module studies (Bachelor) Orientierungsstudien (2020)
 First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))
 Bachelor's degree (1 major) Biology (2021)
 Bachelor's degree (1 major) Functional Materials (2021)
 Bachelor's degree (1 major) Food Chemistry (2021)
 Bachelor's degree (1 major) Biochemistry (2022)
 Bachelor's degree (1 major) Biology (2022)
 Bachelor's degree (1 major) Functional Materials (2025)
 Bachelor's degree (1 major) Food Chemistry (2025)

Module title		Abbreviation
Biochemistry 2		o8-BC2-152-m01
Module coordinator		Module offered by
holder of the Chair of Biochemistry		Chair of Biochemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Comprising lectures and exercises, this module acquaints students with the fundamental principles of biochemistry. A particular focus is on replication, DNA repair, transcription, mRNA maturation, translation and translational regulation, protein targeting, nuclear transport and protein degradation. The module also discusses the fundamental principles of cellular signal transduction.		
Intended learning outcomes		
Students have become familiar with the fundamental principles of the topics in biochemistry that were discussed in the module. They are able to describe the key biochemical processes in cellular systems.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (1)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 60 to 90 minutes)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. II 2. Letter e) and No. II 1. Letter c) of Annex 1 of APOLmCh and No. 3 of Annex 3 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Biochemistry (2015) Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biochemistry (2017) Bachelor's degree (1 major) Chemistry (2017) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Biochemistry (2022)		
Bachelor's with 1 major Food Chemistry (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016	page 14 / 45

Bachelor's degree (1 major) Biology (2022)
Bachelor's degree (1 major) Food Chemistry (2025)

Module title		Abbreviation
General and Inorganic Chemistry for Food Chemistry Students		o8-LMC-AC1-152-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
14	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Essential concepts and basic laws; nomenclature, atoms and the periodic table of elements; types of chemical bonds, intramolecular forces, solutions and heterogeneous systems; fundamental principles of thermodynamics and chemical kinetics; chemical equilibrium; the law of mass action; acid-base systems and redox systems; chemical equations and stoichiometry, chemical behaviour of reactants (elements and categories of substances) as well as their qualitative inorganic analysis with a special focus on elements commonly found in foods that may pose environmental or toxicological risks.		
Intended learning outcomes		
Students have developed an understanding of the principles of inorganic chemistry including stoichiometry and the most important elements. They are able to independently set up chemical equations and predict the behaviour of groups of inorganic substances. They are able to apply their theoretical knowledge in the lab and use reactions to detect inorganic ions as well as to detect the presence of inorganic ions in mixtures and matrices. Students have developed essential lab skills and can work safely and competently in a lab. They are able to independently perform qualitative analyses of drinking water to detect inorganic compounds, identify them and validate their results.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + S (2) + P (8)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
[a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups of 2 candidates (approx. 30 minutes total)] and [a) Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments (approx. 2 to 4 pages per analysis, no more than 60 pages total) or b) completion and written documentation (approx. 1 to 2 pages) of a theoretical assignment (approx. 30 minutes), Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments in lab notebook (approx. 2 to 4 pages per analysis, no more than 60 pages total).]		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter a) and No. I 1. Letter a) of Annex 1 of APOLmCh and No. 1 of Annex 2 of APOLmCh.		
Workload		
420 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		

Bachelor's degree (1 major) Food Chemistry (2015)
Bachelor's degree (1 major) Food Chemistry (2016)
Bachelor's degree (1 major) Food Chemistry (2019)

Module title		Abbreviation
Quantitative Inorganic Chemistry for Food Chemistry Students		o8-LMC-AC2-152-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Chemical equations and stoichiometry, chemical behaviour of reactants (elements and categories of substances) as well as their quantitative inorganic analysis with a special focus on elements commonly found in foods that may pose environmental or toxicological risks.		
Intended learning outcomes		
Students know suitable methods for the quantification of inorganic ions. They understand how the concentrations of analytes in samples are calculated and are able to calculate those concentrations themselves.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (3) + Ü (1)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter a) and No. I 1. Letter a) of Annex 1 of APOLmCh and No. 1 of Annex 2 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019)		

Module title			Abbreviation
Quantitative Inorganic Analysis for Food Chemistry Students			o8-LMC-AC3-152-mo1
Module coordinator		Module offered by	
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry	
ECTS	Method of grading	Only after succ. compl. of module(s)	
14	(not) successfully completed	o8-LMC-AC1	
Duration	Module level	Other prerequisites	
2 semester	undergraduate	--	
Contents			
Chemical equations and stoichiometry, chemical behaviour of reactants (elements and categories of substances) as well as their quantitative inorganic analysis with a special focus on elements commonly found in drinking and process water that can be used to determine the provenance of samples and that may pose environmental or toxicological risks.			
Intended learning outcomes			
Students will independently search literature for the inorganic constituents of different drinking and process waters and will deliver a presentation on the results of their work. They will select suitable methods of analysis, use them in the lab to precisely and correctly quantify inorganic ions in water samples and interpret the quality and relevance of the results obtained. Students will develop their strategies independently, perform their analyses competently and determine relevant data for the interpretation of the results obtained as well as for the discussion of those results in reference to the nature of the water sample.			
Courses (type, number of weekly contact hours, language — if other than German)			
P (10) + S (1) + S (1)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)			
a) Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments (approx. 2 to 4 pages per analysis, no more than 60 pages total) or b) completion and written documentation (approx. 1 to 2 pages) of a theoretical assignment (approx. 30 minutes), Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments in lab notebook (approx. 2 to 4 pages per analysis, no more than 60 pages total) and talk (approx. 20 minutes) Assessment offered: Once a year, summer semester			
Allocation of places			
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Additional information			
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter a) and No. I 1. Letter a) of Annex 1 of APOLmCh and No. 1 of Annex 2 of APOLmCh.			
Workload			
420 h			
Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)			
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Module appears in			
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019)			
Bachelor's with 1 major Food Chemistry (2016)		JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016	page 19 / 45

Module title		Abbreviation
Bachelor Thesis Food Chemistry		o8-LMC-BA-152-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This module gives students the opportunity to research and write on a defined problem within a given time frame and using the scientific methods they have learned during the programme.		
Intended learning outcomes		
Students are able to conduct research on a defined problem/topic, adhering to the principles of good scientific practice, and to present the results of their work in written form.		
Courses (type, number of weekly contact hours, language — if other than German)		
No courses assigned to module		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
Bachelor's thesis		
Allocation of places		
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Additional information		
Time to complete: 8 weeks.		
Workload		
300 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Food Chemistry (2025)		

Module title		Abbreviation
Analysis Strategies		o8-LMC-FSQ1-162-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The occupation of a food chemist. General strategies for qualitative and quantitative analyses. Calibration strategies. Accuracy and quality of chemical analyses. Interpretation of measured data with statistical methods.		
Intended learning outcomes		
Students have learned how to plan, perform and evaluate analyses, use statistical methods to interpret the data obtained and validate their results.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (2) + S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written exercise (approx. 10 pages) Assessment offered: Once a year, winter semester		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. II 1. Letter a) of Annex 1 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2025)		

Module title		Abbreviation
Quality Management		o8-LMC-FSQ2-152-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Quality assurance in the lab.		
Intended learning outcomes		
Students are able to apply the fundamental principles of industrial quality assurance as well as to independently write and apply standard operating procedures.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (1) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
term paper (approx. 20 pages)		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016)		

Module title		Abbreviation
Introduction to Instrumental Analysis for Food Chemistry Students		o8-LMC-IA-152-mo1
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Fundamental principles of the analysis of organic molecules; physical separation techniques and measurement methods.		
Intended learning outcomes		
Students have learned the principles of spectroscopy, chromatography and electrochemistry. They have become familiar with typical fields of application of those methods as well as with the necessary detectors. They know how to analyse spectra and chromatograms mathematically and statistically and how to interpret them.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (3)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. 1 2. Letter a) of Annex 1 of APOLmCh and No. 1 of Annex 2 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Food Chemistry (2025)		

Module title		Abbreviation
Instrumental Analysis for Food Chemistry Students		o8-LMC-LMA-152-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
10	(not) successfully completed	o8-LMC-AC3, o8-LMC-OCP or o8-OCP1-LMC
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Fundamental principles of the analysis of foods, tobacco products, cosmetics, consumer goods and feeds; in particular spectroscopic and chromatographic methods.		
Intended learning outcomes		
Students have developed the ability to plan and perform qualitative and quantitative analyses of foods using spectroscopic (photometry, fluorimetry) and chromatographic (thin-layer chromatography, high performance liquid chromatography, gas chromatography) methods.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + S (1) + P (10)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments (approx. 2 to 4 pages per analysis, no more than 60 pages total) or b) completion and written documentation (approx. 1 to 2 pages) of a theoretical assignment (approx. 30 minutes), Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments in lab notebook (approx. 2 to 4 pages per analysis, no more than 60 pages total)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter a) and No. I 1. Letter a) of Annex 1 of APOLmCh and No. 1 of Annex 2 of APOLmCh.		
Workload		
300 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Introduction to Food Chemistry		o8-LMC-LMCo-162-mo1
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Introduction to the chemistry of food constituents.		
Intended learning outcomes		
Students are familiar with the fundamental structures, properties and reactions of proteins, carbohydrates and lipids as well as their importance in foods.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (1)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter a) and No. I 1. Letter a) of Annex 1 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Food Chemistry (2025)		

Module title		Abbreviation
Food Chemistry		o8-LMC-LMC-162-mo1
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
14	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Foods, tobacco products and feeds (in particular foods and feeds that contain carbohydrates and lipids) and their analysis. Fundamental principles of food technology processes.		
Intended learning outcomes		
Students have developed a knowledge of the composition and chemical constituents as well as of the analysis of foods that contain carbohydrates, lipids and proteins. They are able to prepare and present a seminar about a topic related to the composition of foods and food technology.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + S (2) + V (1) + S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total) 100 per cent of grade		
Allocation of places		
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Additional information		
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Workload		
420 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2016)		

Module title		Abbreviation
Practical Course in Food Chemistry		o8-LMC-LMCP-152-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
13	(not) successfully completed	o8-LMC-LMA
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Fundamental methods for the analysis of foods, tobacco products and feeds including the interpretation of measured data with statistical methods. A particular focus will be on foods and feeds that contain carbohydrates and lipids.		
Intended learning outcomes		
Students will develop an understanding of, and proficiency in, the analysis of products including, but not limited to, foods that contain carbohydrates, lipids and proteins. They will select appropriate methods, analyse different foods, verify the accuracy of the results obtained and interpret them on the basis of relevant data.		
Courses (type, number of weekly contact hours, language — if other than German)		
P (10) + P (14)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments (approx. 2 to 4 pages per analysis, no more than 60 pages total) or b) completion and written documentation (approx. 1 to 2 pages) of a theoretical assignment (approx. 30 minutes), Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments in lab notebook (approx. 2 to 4 pages per analysis, no more than 60 pages total) and summary report (approx. 15 to 20 pages each)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. II 1. Letter a) of Annex 1 of APOLmCh.		
Workload		
390 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016)		

Module title		Abbreviation
Introduction to Molecular Biological Analysis for Food Chemistry Students		o8-LMC-MBA-152-m01
Module coordinator		Module offered by
holder of the Chair of Food Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	o8-LMC-LMA
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Theoretical and practical principles of methods in molecular biology.		
Intended learning outcomes		
Students are able to perform essential molecular biological techniques for DNA isolation, polymerase chain reaction, agarose gel electrophoresis and restriction enzyme digestion. They can interpret molecular biological data independently.		
Courses (type, number of weekly contact hours, language — if other than German)		
P (3) + S (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments (approx. 2 to 4 pages per analysis, no more than 60 pages total) or b) completion and written documentation (approx. 1 to 2 pages) of a theoretical assignment (approx. 30 minutes), Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments in lab notebook (approx. 2 to 4 pages per analysis, no more than 60 pages total)		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016)		

Module title			Abbreviation
Organic Chemistry Including Nomenclature and Stereochemistry for Food Chemistry Students			o8-LMC-OC-152-m01
Module coordinator		Module offered by	
holder of the Chair of Medicinal and Pharmaceutical Chemistry		Institute of Pharmacy and Food Chemistry	
ECTS	Method of grading	Only after succ. compl. of module(s)	
10	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	undergraduate	--	
Contents			
Fundamental principles, e.g. nomenclature, types of chemical bonds; sum formulas, structural formulas; reaction types and mechanisms; chemical characteristics; chemical behaviour of reactants (important bonding classes and, in particular, naturally occurring substances); chemistry of functional groups and categories of substances; structure and reactivity; fundamental principles of synthetic and biopolymers. Stereochemistry and nomenclature of important bonding classes and, in particular, naturally occurring substances.			
Intended learning outcomes			
Students understand fundamental reaction mechanisms and are able to predict the behaviour and properties of chemical compounds on the basis of their functional groups. Students have learned the IUPAC rules for naming organic compounds. They have become familiar with the trivial names of compounds and know how to translate the name of a compound into its structural formula. They grasp key concepts and the significance of stereochemistry and have learned rules for naming stereochemical compounds.			
Courses (type, number of weekly contact hours, language — if other than German)			
S (1) + S (1) + V (1) + V (3)			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)			
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)			
Allocation of places			
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Additional information			
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter b) and No. I 1. Letter b) of Annex 1 of APOLmCh and No. 2 of Annex 2 of APOLmCh.			
Workload			
300 h			
Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)			
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Module appears in			
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016)			

Module title		Abbreviation
Practical Course in Organic Chemistry for Food Chemistry Students		o8-LMC-OCP-152-m01
Module coordinator		Module offered by
holder of the Chair of Medicinal and Pharmaceutical Chemistry		Institute of Pharmacy and Food Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
10	(not) successfully completed	o8-LMC-AC1
Duration	Module level	Other prerequisites
1 semester	undergraduate	Successful completion of a written examination (90 to 120 minutes) serves as proof of all safety-related skills and is a prerequisite for attendance of the lab course.
Contents		
Fundamental principles, e.g. nomenclature, types of chemical bonds; sum formulas, structural formulas; reaction types and mechanisms; chemical characteristics; chemical behaviour of reactants (important bonding classes and, in particular, naturally occurring substances); chemistry of functional groups and categories of substances; structure and reactivity; fundamental principles of synthetic and biopolymers.		
Intended learning outcomes		
Students are able to perform syntheses of different categories of substances using essential techniques as well as to determine the identity and purity of the products.		
Courses (type, number of weekly contact hours, language — if other than German)		
P (12)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments (approx. 2 to 4 pages per analysis, no more than 60 pages total) or b) completion and written documentation (approx. 1 to 2 pages) of a theoretical assignment (approx. 30 minutes), Vortestate and Nachtestate (pre and post-experiment exams, approx. 15 minutes), documentation and assessment of practical assignments in lab notebook (approx. 2 to 4 pages per analysis, no more than 60 pages total)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter b) and No. I 1. Letter b) of Annex 1 of APOLmCh and No. 2 of Annex 2 of APOLmCh.		
Workload		
300 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016)		

Module title		Abbreviation
Physical Chemistry for Biology Majors		o8-PC-Bio-152-m01
Module coordinator		Module offered by
lecturer of lecture "Thermodynamik, Kinetik, Elektrochemie für Studierende der Biologie und Lebensmittelchemie"		Institute of Physical and Theoretical Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	Successful completion of the written examination serves as proof of all safety-related skills and is a prerequisite for attendance of the lab course.
Contents		
This module discusses the fundamental principles of thermodynamics, kinetics and electrochemistry.		
Intended learning outcomes		
Students have become familiar with the fundamental principles of thermodynamics, kinetics and electrochemistry. They are able to understand and explain fundamental processes in nature and engineering.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (1) + P (1)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 60 minutes) and assessment of practical skills during lab course (ungraded): Vortestate/Nachtestate (pre and post-experiment exams, approx. 15 minutes each), assessment of practical assignments, log (approx. 5 to 10 pages) Assessment offered: Once a year, winter semester		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter c) and No. I 1. Letter c) of Annex 1 of APOLmCh and No. 3 of Annex 2 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Mathematics for students in Chemistry and Biology		10-M-MCB-152-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Functional relations, differentiation and integration of functions in one variable, curve sketching, differentiation of functions in several variables, power series, ordinary differential equations, systems of linear equations, basic notions in statistics.		
Intended learning outcomes		
The student is able to recognise and phrase simple questions from natural sciences as mathematical problems, apply basic mathematical methods to them and interpret the results.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (3) + Ü (2)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 90 to 120 minutes) and written exercises (approx. 25)		
Allocation of places		
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Additional information		
Pursuant to Section 2 Subsection 2 Sentence 2 Verordnung über die Ausbildung und Prüfung der Staatlich geprüften Lebensmittelchemikerinnen und Lebensmittelchemiker (Regulation on the training and examination of state-certified food chemists, APOLmCh) in conjunction with No. I 2. Letter f) of Annex 1 of APOLmCh.		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Biochemistry (2015) Bachelor's degree (1 major) Biology (2015) Bachelor's degree (1 major) Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2015) Bachelor's degree (1 major) Food Chemistry (2016) Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major, 1 minor) Digital Humanities (2018) Bachelor's degree (1 major, 1 minor) Digital Humanities (Minor, 2018) Bachelor's degree (2 majors) Digital Humanities (2018) Bachelor's degree (1 major) Food Chemistry (2019) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Biology (2022) exchange program Mathematics (2023)		
Bachelor's with 1 major Food Chemistry (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016	page 32 / 45

Bachelor's degree (1 major) Food Chemistry (2025)

Module title		Abbreviation
Introduction to Physics for Students of other Disciplines		11-EFNF-152-m01
Module coordinator		Module offered by
Managing Director of the Institute of Applied Physics		Faculty of Physics and Astronomy
ECTS	Method of grading	Only after succ. compl. of module(s)
7	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Fundamentals of mechanics, vibration theory, thermodynamics, optics, science of electricity, atomic and nuclear physics.		
Intended learning outcomes		
The students are able to identify fundamental physical contexts. They are able to assign them to corresponding fields in physics. They are able to apply simple formulae in order to analyse and evaluate these contexts.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (4) + V (3)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (60 to 120 minutes)		
Allocation of places		
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Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh		
Workload		
210 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Biology (2011) Bachelor's degree (1 major) Chemistry (2010) Bachelor's degree (1 major) Psychology (2010) Bachelor's degree (1 major, 1 minor) Pedagogy (2013) Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013) Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008) Bachelor's degree (2 majors) Special Education (2009) Magister Theologiae Catholic Theology (2013) First state examination for the teaching degree Gymnasium English (2009) First state examination for the teaching degree Gymnasium Biology (2009) First state examination for the teaching degree Gymnasium Chemistry (2009) First state examination for the teaching degree Gymnasium Geography (2009) First state examination for the teaching degree Gymnasium French Studies (2009) First state examination for the teaching degree Gymnasium German (2009) First state examination for the teaching degree Gymnasium History (2009) First state examination for the teaching degree Gymnasium Greek Philology (2009)		
Bachelor's with 1 major Food Chemistry (2016)	JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016	page 34 / 45

First state examination for the teaching degree Gymnasium Computer Science (2009)
 First state examination for the teaching degree Gymnasium Italian Studies (2009)
 First state examination for the teaching degree Gymnasium Catholic Theology (2009)
 First state examination for the teaching degree Gymnasium Latin Philology (2009)
 First state examination for the teaching degree Gymnasium Mathematics (2012)
 First state examination for the teaching degree Gymnasium Mathematics (2009)
 First state examination for the teaching degree Gymnasium Music (2009)
 First state examination for the teaching degree Gymnasium Physics (2009)
 First state examination for the teaching degree Gymnasium Russian (2009)
 First state examination for the teaching degree Gymnasium Social Science (2009)
 First state examination for the teaching degree Gymnasium Spanish Studies (2009)
 First state examination for the teaching degree Gymnasium Science of Sport (2009)
 First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009)
 Bachelor's degree (2 majors) English and American Studies (2009)
 Bachelor's degree (2 majors) German Language and Literature (2013)
 Bachelor's degree (1 major) Biochemistry (2015)
 Bachelor's degree (1 major) Chemistry (2015)
 Bachelor's degree (1 major) Geography (2015)
 Bachelor's degree (1 major) Computer Science (2015)
 Bachelor's degree (1 major) Food Chemistry (2015)
 Bachelor's degree (1 major) Mathematics (2015)
 Bachelor's degree (1 major) Musicology (2015)
 Bachelor's degree (1 major) Physics (2015)
 Bachelor's degree (1 major) Psychology (2015)
 Bachelor's degree (1 major) Business Management and Economics (2015)
 Bachelor's degree (1 major) Nanostructure Technology (2015)
 Bachelor's degree (1 major) Biomedicine (2015)
 Bachelor's degree (1 major) Music Education (2015)
 Bachelor's degree (1 major) Computational Mathematics (2015)
 Bachelor's degree (1 major) Political and Social Studies (2015)
 Bachelor's degree (1 major) Functional Materials (2015)
 Bachelor's degree (1 major) Academic Speech Therapy (2015)
 Bachelor's degree (1 major) Indology/South Asian Studies (2015)
 Bachelor's degree (1 major, 1 minor) Egyptology (2015)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2015)
 Bachelor's degree (1 major, 1 minor) History (2015)
 Bachelor's degree (1 major, 1 minor) Musicology (2015)
 Bachelor's degree (1 major, 1 minor) Philosophy (2015)
 Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2015)
 Bachelor's degree (1 major, 1 minor) Ancient World (2015)
 Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2015)
 Bachelor's degree (1 major, 1 minor) Theological Studies (2015)
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2015)
 Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2015)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2015)
 Bachelor's degree (2 majors) Egyptology (2015)
 Bachelor's degree (2 majors) Pedagogy (2015)
 Bachelor's degree (2 majors) Protestant Theology (2015)
 Bachelor's degree (2 majors) Musicology (2015)
 Bachelor's degree (2 majors) Philosophy (2015)
 Bachelor's degree (2 majors) Special Education (2015)
 Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2015)
 Bachelor's degree (2 majors) Latin Philology (2015)

Bachelor's degree (2 majors) Music Education (2015)
 Bachelor's degree (2 majors) Philosophy and Religion (2015)
 Bachelor's degree (2 majors) Theological Studies (2015)
 Bachelor's degree (2 majors) Political and Social Studies (2015)
 Bachelor's degree (2 majors) Russian Language and Culture (2015)
 Bachelor's degree (2 majors) Greek Philology (2015)
 Bachelor's degree (2 majors) European Ethnology (2015)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2015)
 First state examination for the teaching degree Gymnasium English (2015)
 First state examination for the teaching degree Gymnasium Biology (2015)
 First state examination for the teaching degree Gymnasium Chemistry (2015)
 First state examination for the teaching degree Gymnasium Geography (2015)
 First state examination for the teaching degree Gymnasium French Studies (2015)
 First state examination for the teaching degree Gymnasium German (2015)
 First state examination for the teaching degree Gymnasium History (2015)
 First state examination for the teaching degree Gymnasium Greek Philology (2015)
 First state examination for the teaching degree Gymnasium Computer Science (2015)
 First state examination for the teaching degree Gymnasium Italian Studies (2015)
 First state examination for the teaching degree Gymnasium Catholic Theology (2015)
 First state examination for the teaching degree Gymnasium Latin Philology (2015)
 First state examination for the teaching degree Gymnasium Mathematics (2015)
 First state examination for the teaching degree Gymnasium Physics (2015)
 First state examination for the teaching degree Gymnasium Russian (2015)
 First state examination for the teaching degree Gymnasium Social Science (2015)
 First state examination for the teaching degree Gymnasium Spanish Studies (2015)
 First state examination for the teaching degree Gymnasium Science of Sport (2015)
 Bachelor's degree (2 majors) Geography (2015)
 Bachelor's degree (2 majors) French Studies (2015)
 Bachelor's degree (2 majors) History (2015)
 Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015)
 Bachelor's degree (2 majors) German Language and Literature (2015)
 Bachelor's degree (1 major) Mathematical Physics (2016)
 First state examination for the teaching degree Gymnasium Music (2015)
 First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2015)
 Bachelor's degree (1 major, 1 minor) French Studies (2016)
 Bachelor's degree (2 majors) French Studies (2016)
 Bachelor's degree (1 major, 1 minor) Italian Studies (2016)
 Bachelor's degree (2 majors) Italian Studies (2016)
 Bachelor's degree (1 major, 1 minor) Spanish Studies (2016)
 Bachelor's degree (2 majors) Spanish Studies (2016)
 Bachelor's degree (1 major) Romanic Languages (French/Italian) (2016)
 Bachelor's degree (1 major) Romanic Languages (French/Spanish) (2016)
 Bachelor's degree (1 major) Romanic Languages (Italian/Spanish) (2016)
 Bachelor's degree (1 major) Business Information Systems (2016)
 First state examination for the teaching degree Gymnasium French Studies (2016)
 First state examination for the teaching degree Gymnasium Italian Studies (2016)
 First state examination for the teaching degree Gymnasium Spanish Studies (2016)
 Bachelor's degree (1 major) Games Engineering (2016)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2016)
 Bachelor's degree (2 majors) English and American Studies (2016)
 First state examination for the teaching degree Gymnasium English (2016)
 Bachelor's degree (1 major) Media Communication (2016)
 Bachelor's degree (1 major) Food Chemistry (2016)

Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
 Bachelor's degree (1 major) Biology (2017)
 Bachelor's degree (1 major, 1 minor) Geography (2017)
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017)
 Bachelor's degree (2 majors) History of Medieval and Modern Art (2017)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017)
 Bachelor's degree (1 major) Aerospace Computer Science (2017)
 Bachelor's degree (1 major) Biochemistry (2017)
 Bachelor's degree (1 major) Chemistry (2017)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)
 Bachelor's degree (1 major) Econometrics (2017)
 Bachelor's degree (1 major) Games Engineering (2017)
 Bachelor's degree (1 major) Computer Science (2017)
 First state examination for the teaching degree Gymnasium Greek Philology (2018)
 Bachelor's degree (1 major) Media Communication (2018)
 Bachelor's degree (1 major) Biomedicine (2018)
 Bachelor's degree (1 major) Human-Computer Systems (2018)
 Bachelor's degree (2 majors) Classical Archaeology (2018)
 Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2018)
 Bachelor's degree (2 majors) Digital Humanities (2018)
 First state examination for the teaching degree Gymnasium Physics (2018)
 Bachelor's degree (1 major) Computer Science (2019)
 First state examination for the teaching degree Gymnasium Mathematics (2019)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2019)
 Bachelor's degree (1 major) Indology/South Asian Studies (2019)
 Bachelor's degree (1 major) Business Information Systems (2019)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2019)
 Bachelor's degree (1 major) Business Management and Economics (2019)
 Bachelor's degree (1 major) Modern China (2019)
 Bachelor's degree (1 major) Food Chemistry (2019)
 Bachelor's degree (1 major) Biomedicine (2020)
 Bachelor's degree (1 major) Pedagogy (2020)
 Bachelor's degree (1 major) Political and Social Studies (2020)
 Bachelor's degree (1 major) Business Information Systems (2020)
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2020)
 Bachelor's degree (2 majors) European Ethnology (2020)
 Bachelor's degree (2 majors) Political and Social Studies (2020)
 Bachelor's degree (2 majors) Special Education (2020)
 Bachelor's degree (1 major) Physics (2020)
 Bachelor's degree (1 major) Nanostructure Technology (2020)
 Bachelor's degree (1 major) Mathematical Physics (2020)
 Bachelor's degree (1 major) Aerospace Computer Science (2020)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2020)
 First state examination for the teaching degree Gymnasium Physics (2020)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2020)
 Bachelor's degree (2 majors) Pedagogy (2020)
 First state examination for the teaching degree Gymnasium Political and Social Studies (2020)
 Bachelor's degree (1 major) Psychology (2020)
 Bachelor's degree (1 major) Biology (2021)
 Magister Theologiae Catholic Theology (2021)
 Bachelor's degree (2 majors) History (2021)
 Bachelor's degree (1 major, 1 minor) History (2021)

First state examination for the teaching degree Gymnasium History (2021)
 Bachelor's degree (1 major) Media Communication (2021)
 Bachelor's degree (2 majors) Theological Studies (2021)
 Bachelor's degree (1 major, 1 minor) Theological Studies (2021)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2021)
 Bachelor's degree (2 majors) English and American Studies (2021)
 First state examination for the teaching degree Gymnasium English (2021)
 Bachelor's degree (1 major) Functional Materials (2021)
 First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021)
 Bachelor's degree (1 major) Computer Science und Sustainability (2021)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021)
 Bachelor's degree (1 major) Food Chemistry (2021)
 Bachelor's degree (1 major) Quantum Technology (2021)
 Bachelor's degree (2 majors) Special Education (2021)
 Bachelor's degree (1 major) Business Information Systems (2021)
 Bachelor's degree (1 major) Economathematics (2021)
 Bachelor's degree (1 major) Business Management and Economics (2021)
 Bachelor's degree (1 major) Human-Computer Systems (2022)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2022)
 Bachelor's degree (1 major) Biochemistry (2022)
 Bachelor's degree (1 major) Biology (2022)
 Bachelor's degree (1 major) Economathematics (2022)
 Bachelor's degree (1 major) Mathematical Data Science (2022)
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)
 First state examination for the teaching degree Gymnasium Philosophy and Ethics (2022)
 Bachelor's degree (2 majors) Ancient Near Eastern Archaeology (2022)
 Bachelor's degree (1 major, 1 minor) Ancient World (2022)
 Bachelor's degree (2 majors) Ancient Near Eastern Studies (2022)
 Bachelor's degree (1 major) Franco-German studies: language, culture, digital competence (2022)
 First state examination for the teaching degree Gymnasium Russian (2023)
 First state examination for the teaching degree Gymnasium Mathematics (2023)
 First state examination for the teaching degree Gymnasium English (2023)
 First state examination for the teaching degree Gymnasium Geography (2023)
 Bachelor's degree (1 major) European Law (2023)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2023)
 Bachelor's degree (2 majors) English and American Studies (2023)
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)
 Bachelor's degree (1 major) Mathematics (2023)
 Bachelor's degree (1 major) Business Information Systems (2023)
 Bachelor's degree (1 major) Economathematics (2023)
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2023)
 Bachelor's degree (2 majors) History of Medieval and Modern Art (2023)
 Bachelor's degree (2 majors) Special Education (2023)
 Bachelor's degree (1 major) Business Management and Economics (2023)
 Bachelor's degree (1 major) Geography (2023)
 Bachelor's degree (2 majors) Geography (2023)
 Bachelor's degree (1 major, 1 minor) Geography (2023)
 Bachelor's degree (2 majors) European Ethnology/Empiric Cultural Studies (2023)
 First state examination for the teaching degree Gymnasium German (2024)
 Bachelor's degree (1 major) Mathematical Physics (2024)
 Bachelor's degree (2 majors) German Language and Literature (2024)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2024)
 Bachelor's degree (1 major) Music Education (2024)

Bachelor's degree (2 majors) Music Education (2024)
 Bachelor's degree (1 major, 1 minor) Music Education (2024)
 Bachelor's degree (1 major) Indology/South Asian Studies (2024)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2024)
 Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2024)
 Bachelor's degree (1 major, 1 minor) Ancient World (2024)
 Bachelor's degree (2 majors) Digital Humanities (2024)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2024)
 Bachelor's degree (1 major) Midwifery (2024)
 Bachelor's degree (2 majors) Greek Philology (2024)
 Bachelor's degree (2 majors) Latin Philology (2024)
 First state examination for the teaching degree Gymnasium Latin Philology (2024)
 Bachelor's degree (1 major) Business Information Systems (2024)
 Bachelor's degree (1 major) Economathematics (2024)
 Bachelor's degree (1 major) Business Management and Economics (2024)
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)
 First state examination for the teaching degree Gymnasium English (2024)
 First state examination for the teaching degree Gymnasium History (2024)
 First state examination for the teaching degree Gymnasium Greek Philology (2024)
 Bachelor's degree (1 major) Human-Computer-Interaction (2024)
 Bachelor's degree (2 majors) Art Education (2024)
 Bachelor's degree (1 major) Digital Business & Data Science (2024)
 Bachelor's degree (1 major) Classics (2024)
 Bachelor's degree (1 major) Diversity, Ethics and Religions (2024)
 Bachelor's degree (1 major) Functional Materials (2025)
 Bachelor's degree (1 major) (2025)
 Bachelor's degree (1 major) Food Chemistry (2025)
 Bachelor's degree (1 major, 1 minor) European Ethnology/Empiric Cultural Studies (2025)
 Bachelor's degree (1 major) Pedagogy (2025)
 Bachelor's degree (2 majors) Pedagogy (2025)
 Bachelor's degree (1 major) Economathematics (2025)
 Bachelor's degree (1 major) Academic Speech Therapy (2025)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2025)
 Bachelor's degree (1 major) Games Engineering (2025)

Module title		Abbreviation
Laboratory Course Physics for Students of other Disciplines		11-PFNF-152-mo1
Module coordinator		Module offered by
Managing Director of the Institute of Applied Physics		Faculty of Physics and Astronomy
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Simple experiments in the fields of mechanics, vibration theory, thermodynamics, optics, X-rays, nuclear magnetic resonance atomic and nuclear physics, imaging methods.		
Intended learning outcomes		
The students have recognised and understood physical contexts on the basis of the implementation of own experiments. They can conduct simple experiments in the laboratory. They are able to identify and assess sources of errors in experiments. They are able to compile a protocol for experimental procedures. They have a basic understanding of physical phenomena and know the basic ideas and ways of functioning of different measuring and imaging methods as well as their applications, especially in the field of biomedicine.		
Courses (type, number of weekly contact hours, language — if other than German)		
P (4)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) practical assignment with oral test (approx. 15 minutes, during experiments) and b) written examination (approx. 90 minutes). Each experiment comprises preparation, performance and evaluation. Test as well as performance of experiments can each be repeated once.		
Allocation of places		
Only as part of pool of general transferable skills (ASQ): 10 places (lottery)		
Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh		
Workload		
90 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Biology (2011) Bachelor's degree (1 major) Chemistry (2010) Bachelor's degree (1 major) Psychology (2010) Bachelor's degree (1 major, 1 minor) Pedagogy (2013) Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013) Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008) Bachelor's degree (2 majors) Special Education (2009) Magister Theologiae Catholic Theology (2013) First state examination for the teaching degree Gymnasium English (2009) First state examination for the teaching degree Gymnasium Biology (2009)		
Bachelor's with 1 major Food Chemistry (2016)		page 40 / 45
JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2016		

First state examination for the teaching degree Gymnasium Chemistry (2009)
 First state examination for the teaching degree Gymnasium Geography (2009)
 First state examination for the teaching degree Gymnasium French Studies (2009)
 First state examination for the teaching degree Gymnasium German (2009)
 First state examination for the teaching degree Gymnasium History (2009)
 First state examination for the teaching degree Gymnasium Greek Philology (2009)
 First state examination for the teaching degree Gymnasium Computer Science (2009)
 First state examination for the teaching degree Gymnasium Italian Studies (2009)
 First state examination for the teaching degree Gymnasium Catholic Theology (2009)
 First state examination for the teaching degree Gymnasium Latin Philology (2009)
 First state examination for the teaching degree Gymnasium Mathematics (2012)
 First state examination for the teaching degree Gymnasium Mathematics (2009)
 First state examination for the teaching degree Gymnasium Music (2009)
 First state examination for the teaching degree Gymnasium Physics (2009)
 First state examination for the teaching degree Gymnasium Russian (2009)
 First state examination for the teaching degree Gymnasium Social Science (2009)
 First state examination for the teaching degree Gymnasium Spanish Studies (2009)
 First state examination for the teaching degree Gymnasium Science of Sport (2009)
 First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009)
 Bachelor's degree (2 majors) English and American Studies (2009)
 Bachelor's degree (2 majors) German Language and Literature (2013)
 Bachelor's degree (1 major) Biochemistry (2015)
 Bachelor's degree (1 major) Chemistry (2015)
 Bachelor's degree (1 major) Geography (2015)
 Bachelor's degree (1 major) Computer Science (2015)
 Bachelor's degree (1 major) Food Chemistry (2015)
 Bachelor's degree (1 major) Mathematics (2015)
 Bachelor's degree (1 major) Musicology (2015)
 Bachelor's degree (1 major) Physics (2015)
 Bachelor's degree (1 major) Psychology (2015)
 Bachelor's degree (1 major) Business Management and Economics (2015)
 Bachelor's degree (1 major) Nanostructure Technology (2015)
 Bachelor's degree (1 major) Biomedicine (2015)
 Bachelor's degree (1 major) Music Education (2015)
 Bachelor's degree (1 major) Computational Mathematics (2015)
 Bachelor's degree (1 major) Political and Social Studies (2015)
 Bachelor's degree (1 major) Functional Materials (2015)
 Bachelor's degree (1 major) Academic Speech Therapy (2015)
 Bachelor's degree (1 major) Indology/South Asian Studies (2015)
 Bachelor's degree (1 major, 1 minor) Egyptology (2015)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2015)
 Bachelor's degree (1 major, 1 minor) History (2015)
 Bachelor's degree (1 major, 1 minor) Musicology (2015)
 Bachelor's degree (1 major, 1 minor) Philosophy (2015)
 Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2015)
 Bachelor's degree (1 major, 1 minor) Ancient World (2015)
 Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2015)
 Bachelor's degree (1 major, 1 minor) Theological Studies (2015)
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2015)
 Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2015)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2015)
 Bachelor's degree (2 majors) Egyptology (2015)
 Bachelor's degree (2 majors) Pedagogy (2015)

Bachelor's degree (2 majors) Protestant Theology (2015)
 Bachelor's degree (2 majors) Musicology (2015)
 Bachelor's degree (2 majors) Philosophy (2015)
 Bachelor's degree (2 majors) Special Education (2015)
 Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2015)
 Bachelor's degree (2 majors) Latin Philology (2015)
 Bachelor's degree (2 majors) Music Education (2015)
 Bachelor's degree (2 majors) Philosophy and Religion (2015)
 Bachelor's degree (2 majors) Theological Studies (2015)
 Bachelor's degree (2 majors) Political and Social Studies (2015)
 Bachelor's degree (2 majors) Russian Language and Culture (2015)
 Bachelor's degree (2 majors) Greek Philology (2015)
 Bachelor's degree (2 majors) European Ethnology (2015)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2015)
 First state examination for the teaching degree Gymnasium English (2015)
 First state examination for the teaching degree Gymnasium Biology (2015)
 First state examination for the teaching degree Gymnasium Chemistry (2015)
 First state examination for the teaching degree Gymnasium Geography (2015)
 First state examination for the teaching degree Gymnasium French Studies (2015)
 First state examination for the teaching degree Gymnasium German (2015)
 First state examination for the teaching degree Gymnasium History (2015)
 First state examination for the teaching degree Gymnasium Greek Philology (2015)
 First state examination for the teaching degree Gymnasium Computer Science (2015)
 First state examination for the teaching degree Gymnasium Italian Studies (2015)
 First state examination for the teaching degree Gymnasium Catholic Theology (2015)
 First state examination for the teaching degree Gymnasium Latin Philology (2015)
 First state examination for the teaching degree Gymnasium Mathematics (2015)
 First state examination for the teaching degree Gymnasium Physics (2015)
 First state examination for the teaching degree Gymnasium Russian (2015)
 First state examination for the teaching degree Gymnasium Social Science (2015)
 First state examination for the teaching degree Gymnasium Spanish Studies (2015)
 First state examination for the teaching degree Gymnasium Science of Sport (2015)
 Bachelor's degree (2 majors) Geography (2015)
 Bachelor's degree (2 majors) French Studies (2015)
 Bachelor's degree (2 majors) History (2015)
 Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015)
 Bachelor's degree (2 majors) German Language and Literature (2015)
 Bachelor's degree (1 major) Mathematical Physics (2016)
 First state examination for the teaching degree Gymnasium Music (2015)
 First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2015)
 Bachelor's degree (1 major, 1 minor) French Studies (2016)
 Bachelor's degree (2 majors) French Studies (2016)
 Bachelor's degree (1 major, 1 minor) Italian Studies (2016)
 Bachelor's degree (2 majors) Italian Studies (2016)
 Bachelor's degree (1 major, 1 minor) Spanish Studies (2016)
 Bachelor's degree (2 majors) Spanish Studies (2016)
 Bachelor's degree (1 major) Romanic Languages (French/Italian) (2016)
 Bachelor's degree (1 major) Romanic Languages (French/Spanish) (2016)
 Bachelor's degree (1 major) Romanic Languages (Italian/Spanish) (2016)
 Bachelor's degree (1 major) Business Information Systems (2016)
 First state examination for the teaching degree Gymnasium French Studies (2016)
 First state examination for the teaching degree Gymnasium Italian Studies (2016)
 First state examination for the teaching degree Gymnasium Spanish Studies (2016)

Bachelor's degree (1 major) Games Engineering (2016)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2016)
 Bachelor's degree (2 majors) English and American Studies (2016)
 First state examination for the teaching degree Gymnasium English (2016)
 Bachelor's degree (1 major) Media Communication (2016)
 Bachelor's degree (1 major) Food Chemistry (2016)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
 Bachelor's degree (1 major) Biology (2017)
 Bachelor's degree (1 major, 1 minor) Geography (2017)
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017)
 Bachelor's degree (2 majors) History of Medieval and Modern Art (2017)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017)
 Bachelor's degree (1 major) Aerospace Computer Science (2017)
 Bachelor's degree (1 major) Biochemistry (2017)
 Bachelor's degree (1 major) Chemistry (2017)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)
 Bachelor's degree (1 major) Econometrics (2017)
 Bachelor's degree (1 major) Games Engineering (2017)
 Bachelor's degree (1 major) Computer Science (2017)
 First state examination for the teaching degree Gymnasium Greek Philology (2018)
 Bachelor's degree (1 major) Media Communication (2018)
 Bachelor's degree (1 major) Biomedicine (2018)
 Bachelor's degree (1 major) Human-Computer Systems (2018)
 Bachelor's degree (2 majors) Classical Archaeology (2018)
 Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2018)
 Bachelor's degree (2 majors) Digital Humanities (2018)
 First state examination for the teaching degree Gymnasium Physics (2018)
 Bachelor's degree (1 major) Computer Science (2019)
 First state examination for the teaching degree Gymnasium Mathematics (2019)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2019)
 Bachelor's degree (1 major) Indology/South Asian Studies (2019)
 Bachelor's degree (1 major) Business Information Systems (2019)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2019)
 Bachelor's degree (1 major) Business Management and Economics (2019)
 Bachelor's degree (1 major) Modern China (2019)
 Bachelor's degree (1 major) Food Chemistry (2019)
 Module studies (Bachelor) Orientierungsstudien (2020)
 Bachelor's degree (1 major) Biomedicine (2020)
 Bachelor's degree (1 major) Pedagogy (2020)
 Bachelor's degree (1 major) Political and Social Studies (2020)
 Bachelor's degree (1 major) Business Information Systems (2020)
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2020)
 Bachelor's degree (2 majors) European Ethnology (2020)
 Bachelor's degree (2 majors) Political and Social Studies (2020)
 Bachelor's degree (2 majors) Special Education (2020)
 Bachelor's degree (1 major) Physics (2020)
 Bachelor's degree (1 major) Nanostructure Technology (2020)
 Bachelor's degree (1 major) Mathematical Physics (2020)
 Bachelor's degree (1 major) Aerospace Computer Science (2020)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2020)
 First state examination for the teaching degree Gymnasium Physics (2020)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2020)

Bachelor's degree (2 majors) Pedagogy (2020)
First state examination for the teaching degree Gymnasium Political and Social Studies (2020)
Bachelor's degree (1 major) Psychology (2020)
Bachelor's degree (1 major) Biology (2021)
Magister Theologiae Catholic Theology (2021)
Bachelor's degree (2 majors) History (2021)
Bachelor's degree (1 major, 1 minor) History (2021)
First state examination for the teaching degree Gymnasium History (2021)
Bachelor's degree (1 major) Media Communication (2021)
Bachelor's degree (2 majors) Theological Studies (2021)
Bachelor's degree (1 major, 1 minor) Theological Studies (2021)
Bachelor's degree (1 major, 1 minor) English and American Studies (2021)
Bachelor's degree (2 majors) English and American Studies (2021)
First state examination for the teaching degree Gymnasium English (2021)
Bachelor's degree (1 major) Functional Materials (2021)
First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021)
Bachelor's degree (1 major) Computer Science und Sustainability (2021)
Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021)
Bachelor's degree (1 major) Food Chemistry (2021)
Bachelor's degree (1 major) Quantum Technology (2021)
Bachelor's degree (2 majors) Special Education (2021)
Bachelor's degree (1 major) Business Information Systems (2021)
Bachelor's degree (1 major) Economathematics (2021)
Bachelor's degree (1 major) Business Management and Economics (2021)
Bachelor's degree (1 major) Human-Computer Systems (2022)
Bachelor's degree (1 major, 1 minor) Museology and material culture (2022)
Bachelor's degree (1 major) Biochemistry (2022)
Bachelor's degree (1 major) Biology (2022)
Bachelor's degree (1 major) Economathematics (2022)
Bachelor's degree (1 major) Mathematical Data Science (2022)
Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)
First state examination for the teaching degree Gymnasium Philosophy and Ethics (2022)
Bachelor's degree (2 majors) Ancient Near Eastern Archaeology (2022)
Bachelor's degree (1 major, 1 minor) Ancient World (2022)
Bachelor's degree (2 majors) Ancient Near Eastern Studies (2022)
Bachelor's degree (1 major) Franco-German studies: language, culture, digital competence (2022)
First state examination for the teaching degree Gymnasium Russian (2023)
First state examination for the teaching degree Gymnasium Mathematics (2023)
First state examination for the teaching degree Gymnasium English (2023)
First state examination for the teaching degree Gymnasium Geography (2023)
Bachelor's degree (1 major) European Law (2023)
Bachelor's degree (1 major, 1 minor) English and American Studies (2023)
Bachelor's degree (2 majors) English and American Studies (2023)
Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)
Bachelor's degree (1 major) Mathematics (2023)
Bachelor's degree (1 major) Business Information Systems (2023)
Bachelor's degree (1 major) Economathematics (2023)
Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2023)
Bachelor's degree (2 majors) History of Medieval and Modern Art (2023)
Bachelor's degree (2 majors) Special Education (2023)
Bachelor's degree (1 major) Business Management and Economics (2023)
Bachelor's degree (1 major) Geography (2023)
Bachelor's degree (2 majors) Geography (2023)

Bachelor's degree (1 major, 1 minor) Geography (2023)
 Bachelor's degree (2 majors) European Ethnology/Empiric Cultural Studies (2023)
 First state examination for the teaching degree Gymnasium German (2024)
 Bachelor's degree (1 major) Mathematical Physics (2024)
 Bachelor's degree (2 majors) German Language and Literature (2024)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2024)
 Bachelor's degree (1 major) Music Education (2024)
 Bachelor's degree (2 majors) Music Education (2024)
 Bachelor's degree (1 major, 1 minor) Music Education (2024)
 Bachelor's degree (1 major) Indology/South Asian Studies (2024)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2024)
 Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2024)
 Bachelor's degree (1 major, 1 minor) Ancient World (2024)
 Bachelor's degree (2 majors) Digital Humanities (2024)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2024)
 Bachelor's degree (1 major) Midwifery (2024)
 Bachelor's degree (2 majors) Greek Philology (2024)
 Bachelor's degree (2 majors) Latin Philology (2024)
 First state examination for the teaching degree Gymnasium Latin Philology (2024)
 Bachelor's degree (1 major) Business Information Systems (2024)
 Bachelor's degree (1 major) Economathematics (2024)
 Bachelor's degree (1 major) Business Management and Economics (2024)
 Bachelor's degree (1 major) Artificial Intelligence and Data Science (2024)
 First state examination for the teaching degree Gymnasium English (2024)
 First state examination for the teaching degree Gymnasium History (2024)
 First state examination for the teaching degree Gymnasium Greek Philology (2024)
 Bachelor's degree (1 major) Human-Computer-Interaction (2024)
 Bachelor's degree (2 majors) Art Education (2024)
 Bachelor's degree (1 major) Digital Business & Data Science (2024)
 Bachelor's degree (1 major) Classics (2024)
 Bachelor's degree (1 major) Diversity, Ethics and Religions (2024)
 Bachelor's degree (1 major) Functional Materials (2025)
 Bachelor's degree (1 major) (2025)
 Bachelor's degree (1 major) Food Chemistry (2025)
 Bachelor's degree (1 major, 1 minor) European Ethnology/Empiric Cultural Studies (2025)
 Bachelor's degree (1 major) Pedagogy (2025)
 Bachelor's degree (2 majors) Pedagogy (2025)
 Bachelor's degree (1 major) Economathematics (2025)
 Bachelor's degree (1 major) Academic Speech Therapy (2025)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2025)
 Bachelor's degree (1 major) Games Engineering (2025)