



Subdivided Module Catalogue for the Subject

Keine PO-STG-Zuordnung vorhanden

Responsible: JMU Würzburg

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)):

??-??-2025 (2025-??)

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	38
07-LMC-BIO1-152-m01	General Biology of Economic Plants from Food and Forage	7	NUM	9
08-AC1-152-m01	Principles of Inorganic Chemistry	8	NUM	12
08-ACP1-152-m01	Inorganic Chemistry 1 (lab)	10	B/NB	14
11-EFNF-152-m01	Introduction to Physics for Students of other Disciplines	7	NUM	40
11-PFNF-152-m01	Laboratory Course Physics for Students of other Disciplines	3	B/NB	46
08-AS1-152-m01	Inorganic Chemistry of the Elements	6	NUM	16
08-ANP-152-m01	Analytical Chemistry (lab)	6	B/NB	15
08-LMC-Ch-212-m01	Chemometrics	3	B/NB	23
08-OC2-VL-152-m01	Organic Chemistry 2	6	NUM	36
08-OC1-152-m01	Organic Chemistry 1	5	NUM	31
03-TR-152-m01	Toxicology and legal studies	3	NUM	7
08-BC1-152-m01	Biochemistry 1	5	NUM	18
08-BC2-152-m01	Biochemistry 2	5	NUM	20
08-LMC-IA-152-m01	Introduction to Instrumental Analysis for Food Chemistry Students	5	NUM	26
08-LMC-LMCo-162-m01	Introduction to Food Chemistry	5	NUM	27
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-192-m01	Food Chemistry	10	NUM	28
08-LMC-LMCP-192-m01	Practical Course in Food Chemistry	17	NUM	29
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	24
08-LMC-FSQ2-192-m01	Quality Management	5	B/NB	25
08-LMC-MBA-192-m01	Introduction to Molecular Biological Analysis for Food Chemistry Students	5	B/NB	30
Thesis (10 ECTS credits)				
08-LMC-BA-152-m01	Bachelor Thesis Food Chemistry	10	NUM	22

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' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)		

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' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) Chemistry (2015) Bachelor' 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' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Biochemistry (2017) Bachelor' degree (1 major) Chemistry (2017)		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 7 / 51

Master's degree (1 major) Chemistry (2018)
 Bachelor' 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' degree (1 major) Food Chemistry (2021)
 Bachelor' degree (1 major) Biochemistry (2022)
 Master's degree (1 major) Chemistry (2024)

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' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)

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' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)</p>		

Module title		Abbreviation
Principles of Inorganic Chemistry		o8-AC1-152-m01
Module coordinator		Module offered by
lecturer of lecture "Experimentalchemie" (Experimental Chemistry)		Institute of Inorganic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
8	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The module provides an overview of the fundamental knowledge of chemistry. Emphasis is placed on the material and particle level, metals, acid-base reactions, the periodic table, chemical equilibrium and complexometry. In addition, the module introduces fundamental concepts of chemistry and teaches the basics of inorganic chemistry.</p>		
Intended learning outcomes		
<p>The student understands the principles of the periodic table and can obtain information from it. He/she is proficient in basic models of the structure of matter and can describe them properly. He/she can depict chemical reactions using typical chemical formula language and interpret them by identifying the type of reaction. The students know how the most important quantitative and qualitative analytical methods work and their areas of application.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (4) + V (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)		
<p>a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English</p>		
Allocation of places		
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Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. 1 2nd letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh		
Workload		
240 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 42 I Nr. 1 and § 22 II Nr. 1 h) § 62 I Nr. 1		
Module appears in		
<p>Bachelor' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) 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)</p>		
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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)
 Bachelor' degree (1 major) Biochemistry (2017)
 Bachelor' degree (1 major) Chemistry (2017)
 Module studies (Bachelor) Chemistry (2019)
 Module studies (Bachelor) Orientierungsstudien (2020)
 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' degree (1 major) Food Chemistry (2021)
 Bachelor' degree (1 major) Biochemistry (2022)

Module title		Abbreviation
Inorganic Chemistry 1 (lab)		o8-ACP1-152-m01
Module coordinator		Module offered by
holder of the Chair of Anorganic Chemistry		Institute of Inorganic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module gives students the opportunity to apply in practice the knowledge they have gained through the related lecture(s). After a safety briefing, the students autonomously conduct experiments in the laboratory. The course focuses on laboratory safety, simple lab techniques, the synthesis of simple substances and analyses of unknown substances.</p>		
Intended learning outcomes		
<p>Students are able to identify fundamental problems in chemistry and perform experiments to solve them. They have developed the ability to perform the necessary stoichiometric calculations and describe the chemical processes in an appropriate manner, both in written and oral form.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
P (12) + 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)		
<p>[a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)] and Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations)</p> <p>Language of assessment: German and/or English Assessment offered: Once a year, winter semester</p>		
Allocation of places		
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Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. 1 1st letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the 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' degree (1 major) Chemistry (2015) Bachelor' degree (1 major) Chemistry (2017) Bachelor' degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Analytical Chemistry (lab)		o8-ANP-152-m01
Module coordinator		Module offered by
holder of the Chair of Anorganic Chemistry		Institute of Inorganic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
6	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module gives students the opportunity to apply in practice the knowledge they have gained through the related lecture(s). After a safety briefing, the students autonomously conduct experiments in the laboratory. These experiments focus on different methods for the analysis of unknown substances.</p>		
Intended learning outcomes		
<p>Students are able to use different methods to analyse unknown substances. In addition, they are able to separate and analyse mixtures.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
P (12) + 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)		
<p>Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, summer semester</p>		
Allocation of places		
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Additional information		
<p>according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. 1 1st letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh</p>		
Workload		
180 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' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) Chemistry (2015) Bachelor' degree (1 major) Biochemistry (2017) Bachelor' degree (1 major) Chemistry (2017) Bachelor' degree (1 major) Food Chemistry (2021) Bachelor' degree (1 major) Biochemistry (2022)</p>		

Module title		Abbreviation
Inorganic Chemistry of the Elements		o8-AS1-152-m01
Module coordinator		Module offered by
lecturer of lecture "Chemie der Hauptgruppenelemente" (Chemistry of Main-group Elements)		Institute of Inorganic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
6	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This module equips students with an advanced knowledge of the periodic table and selected elements. It focuses on bonding conditions, trends in the periodic table and the description and structure of elements. In addition, it introduces students to elementary organic chemistry, coordination chemistry and complex chemistry.		
Intended learning outcomes		
Students are able to characterise main group elements and transition metal elements in terms of their structure, reactivity and fabrication. They are able to identify the coordination of the atoms. In addition, they have learned how to use the periodic table, an essential tool for chemists.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + V (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 (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English		
Allocation of places		
--		
Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. 1 2nd letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh		
Workload		
180 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 62 I Nr. 1		
Module appears in		
Bachelor' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) Chemistry (2015) Bachelor' degree (1 major) Mathematics (2015) Bachelor' degree (1 major) Computational Mathematics (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) Bachelor' degree (1 major) Biochemistry (2017) Bachelor' degree (1 major) Chemistry (2017) Bachelor' degree (1 major) Food Chemistry (2021)		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 16 / 51

Bachelor' degree (1 major) Biochemistry (2022)
Bachelor' degree (1 major) Mathematics (2023)

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		
<p>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.</p>		
Intended learning outcomes		
<p>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.</p>		
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		
--		
Additional information		
<p>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</p>		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
<p>§ 42 I Nr. 2 § 62 I Nr. 2</p>		
Module appears in		
<p>Bachelor' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) Biology (2015) Bachelor' degree (1 major) Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2015) Bachelor' 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' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Biology (2017)</p>		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 18 / 51

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

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		
--		
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		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) Biology (2015) Bachelor' degree (1 major) Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Biology (2017) Bachelor' degree (1 major) Biochemistry (2017) Bachelor' degree (1 major) Chemistry (2017) Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Biology (2021) Bachelor' degree (1 major) Food Chemistry (2021) Bachelor' degree (1 major) Biochemistry (2022)		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 20 / 51

Bachelor' degree (1 major) Biology (2022)

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		
--		
Additional information		
Time to complete: 8 weeks.		
Workload		
300 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Chemometrics		o8-LMC-Ch-212-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)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Principles of collection of data and data processing, criteria for measurements, arrangement and organization of data, measures for data characterization, key figures (measures of location scales, dispersion measures), presentation of univariate sampling, characterization and presentation of associations, measures of associations, basics of probability theory and simple probability models, chemometric applications		
Intended learning outcomes		
The students master the basic principles of scientifically reasonable planning, implementation, evaluation and interpretation of chemical analysis with systematic aid of mathematical methods.		
Courses (type, number of weekly contact hours, language — if other than German)		
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 exercises (approx. 10 pages) Assessment offered: Once a year, winter term		
Allocation of places		
--		
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 a) of Annex 1 of APOLmCh and No. 1 of Annex 3 of APOLmCh.		
Workload		
90 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2021)		

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		
--		
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		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2016)		

Module title		Abbreviation
Quality Management		o8-LMC-FSQ2-192-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 management in chemical laboratories.		
Intended learning outcomes		
The students can apply the basic principles of industrial quality management and can develop and apply a standard operating procedure.		
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)		
written exercise (approx. 10 pages) Assessment offered: Once a year, summer semester		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Introduction to Instrumental Analysis for Food Chemistry Students		o8-LMC-IA-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		
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		
--		
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		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Introduction to Food Chemistry		o8-LMC-LMCo-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	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		
--		
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		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2016)		

Module title		Abbreviation
Food Chemistry		o8-LMC-LMC-192-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)
10	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Knowledge and analysis of food, tobacco products and animal feed, particularly carbohydrate and lipid-containing food and feed. Basics in knowledge of food technology processes.		
Intended learning outcomes		
The students know the chemical composition of foods rich in carbohydrates, fat or proteins and the accompanying analysis. The students can develop and present a seminar on foodstuff and food technology.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + 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)		
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		
--		
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		
300 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Practical Course in Food Chemistry		o8-LMC-LMCP-192-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)
17	numerical grade	o8-LMC-LMA
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Basics in analysis of food, tobacco products and animal feeds including the interpretation of data with statistical methods. Special focus on food and feed containing carbohydrates and lipids.		
Intended learning outcomes		
The students can perform the analysis of particular carbohydrate-containing, fat-containing and protein-containing foods. They can choose an appropriate methods, analyze different foods, verify the accuracy of their analysis and interpret their results in the light of current literature.		
Courses (type, number of weekly contact hours, language — if other than German)		
P (12) + P (12) + 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)		
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		
--		
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		
510 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Food Chemistry (2019) Bachelor' degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Introduction to Molecular Biological Analysis for Food Chemistry Students		o8-LMC-MBA-192-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		
Basics in methods in molecular biology - theory and practice.		
Intended learning outcomes		
The students can perform basic molecular biology techniques for DNA isolation, polymerase chain reaction, agarose gel electrophoresis and restriction enzyme digestion and they can interpret molecular biological data.		
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)		
Assessment offered: usually once a year, winter semester		
Allocation of places		
--		
Additional information		
--		
Workload		
150 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
--		
Module appears in		
Bachelor' degree (1 major) Food Chemistry (2019)		
Bachelor' degree (1 major) Food Chemistry (2021)		

Module title		Abbreviation
Organic Chemistry 1		o8-OC1-152-m01
Module coordinator		Module offered by
holder of the Professorship of Organic Chemistry		Institute of Organic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module provides students with an overview of the fundamental principles of organic chemistry. It examines the bonding situation of carbon and introduces students to the nomenclature of simple and moderately complex organic compounds. The module also discusses the fundamental principles of stereochemistry, substitution, addition and elimination reactions as well as synthesis planning.</p>		
Intended learning outcomes		
<p>Students know important categories of substances in organic chemistry. They are able to use different systems of nomenclature to determine simple substance names. Students are able to analyse the stereochemistry of molecules. They are able to describe and formulate some of the most important reactions in organic chemistry. For that purpose, they can analyse and categorise the characteristic reaction conditions and can use them for simple syntheses.</p>		
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)		
<p>a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English</p>		
Allocation of places		
--		
Additional information		
according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. 1 2nd letter b) of annex 1 to the APOLmCh and No. 2 of annex 2 to the APOLmCh		
Workload		
150 h		
Teaching cycle		
Teaching cycle: every year, summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 62 I Nr. 2		
Module appears in		
<p>Bachelor' degree (1 major) Biology (2011) Bachelor' degree (1 major) Chemistry (2010) Bachelor' degree (1 major) Psychology (2010) Bachelor' degree (1 major) Economathematics (2012) 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) English and American Studies (2010)</p>		
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Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2010)
 Bachelor's degree (2 majors) Classical Archaeology (2013)
 Bachelor's degree (2 majors) Philosophy (2013)
 Bachelor's degree (2 majors) Special Education (2009)
 Bachelor's degree (2 majors) Digital Humanities (2012)
 Bachelor's degree (2 majors) Russian Language and Culture (2012)
 Bachelor's degree (2 majors) European Ethnology (2013)
 Magister Theologiae Catholic Theology (2013)
 Bachelor's degree (2 majors) English and American Studies (2009)
 Bachelor's degree (2 majors) German Language and Literature (2013)
 Bachelor' degree (1 major) Biochemistry (2015)
 Bachelor' degree (1 major) Chemistry (2015)
 Bachelor' degree (1 major) Geography (2015)
 Bachelor' degree (1 major) Mathematics (2015)
 Bachelor' degree (1 major) Musicology (2015)
 Bachelor' degree (1 major) Physics (2015)
 Bachelor' degree (1 major) Psychology (2015)
 Bachelor' degree (1 major) Business Management and Economics (2015)
 Bachelor' degree (1 major) Nanostructure Technology (2015)
 Bachelor' degree (1 major) Music Education (2015)
 Bachelor' degree (1 major) Computational Mathematics (2015)
 Bachelor' degree (1 major) Political and Social Studies (2015)
 Bachelor' degree (1 major) Functional Materials (2015)
 Bachelor' degree (1 major) Academic Speech Therapy (2015)
 Bachelor' 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) Music Education (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 Chemistry (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' degree (1 major) Mathematical Physics (2016)
 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' degree (1 major) Romanic Languages (French/Italian) (2016)
 Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2016)
 Bachelor' degree (1 major) Romanic Languages (Italian/Spanish) (2016)
 Bachelor' degree (1 major) Business Information Systems (2016)
 Bachelor' 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)
 Bachelor' degree (1 major) Media Communication (2016)
 Bachelor' degree (1 major) Food Chemistry (2016)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
 Bachelor' 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' degree (1 major) Aerospace Computer Science (2017)
 Bachelor' degree (1 major) Biochemistry (2017)
 Bachelor' degree (1 major) Chemistry (2017)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)
 Bachelor' degree (1 major) Economathematics (2017)
 Bachelor' degree (1 major) Games Engineering (2017)
 Bachelor' degree (1 major) Computer Science (2017)
 Bachelor' degree (1 major) Media Communication (2018)
 Bachelor' degree (1 major) Biomedicine (2018)
 Bachelor' 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)
 Bachelor' degree (1 major) Computer Science (2019)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2019)
 Bachelor' degree (1 major) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Information Systems (2019)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Management and Economics (2019)
 Bachelor' degree (1 major) Modern China (2019)
 Bachelor' degree (1 major) Food Chemistry (2019)
 Bachelor' degree (1 major) Biomedicine (2020)

Bachelor' degree (1 major) Pedagogy (2020)
 Bachelor' degree (1 major) Political and Social Studies (2020)
 Bachelor' 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' degree (1 major) Physics (2020)
 Bachelor' degree (1 major) Nanostructure Technology (2020)
 Bachelor' degree (1 major) Mathematical Physics (2020)
 Bachelor' degree (1 major) Aerospace Computer Science (2020)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2020)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2020)
 Bachelor's degree (2 majors) Pedagogy (2020)
 Bachelor' degree (1 major) Psychology (2020)
 Bachelor' 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)
 Bachelor' 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)
 Bachelor' degree (1 major) Functional Materials (2021)
 Bachelor' degree (1 major) Computer Science und Sustainability (2021)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021)
 Bachelor' degree (1 major) Food Chemistry (2021)
 Bachelor' degree (1 major) Quantum Technology (2021)
 Bachelor's degree (2 majors) Special Education (2021)
 Bachelor' degree (1 major) Business Information Systems (2021)
 Bachelor' degree (1 major) Econometrics (2021)
 Bachelor' degree (1 major) Business Management and Economics (2021)
 Bachelor' degree (1 major) Human-Computer Systems (2022)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2022)
 Bachelor' degree (1 major) Biochemistry (2022)
 Bachelor' degree (1 major) Biology (2022)
 Bachelor' degree (1 major) Econometrics (2022)
 Bachelor' degree (1 major) Mathematical Data Science (2022)
 Bachelor' degree (1 major) Artificial Intelligence and Data Science (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' degree (1 major) Franco-German studies: language, culture, digital competence (2022)
 Bachelor' degree (1 major) Midwifery (2022)
 Bachelor' 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' degree (1 major) Artificial Intelligence and Data Science (2023)
 Bachelor' degree (1 major) Mathematics (2023)
 Bachelor' degree (1 major) Business Information Systems (2023)
 Bachelor' degree (1 major) Econometrics (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' degree (1 major) Business Management and Economics (2023)
 Bachelor' 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)
 Bachelor' 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' 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' 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' degree (1 major) Midwifery (2024)
 Bachelor's degree (2 majors) Greek Philology (2024)
 Bachelor's degree (2 majors) Latin Philology (2024)
 Bachelor' degree (1 major) Business Information Systems (2024)
 Bachelor' degree (1 major) Econometrics (2024)
 Bachelor' degree (1 major) Business Management and Economics (2024)
 Bachelor' degree (1 major) Artificial Intelligence and Data Science (2024)
 Bachelor' degree (1 major) Human-Computer-Interaction (2024)
 Bachelor's degree (2 majors) Art Education (2024)
 Bachelor' degree (1 major) Digital Business & Data Science (2024)
 Bachelor' degree (1 major) Classics (2024)
 Bachelor' degree (1 major) Diversity, Ethics and Religions (2024)

Module title		Abbreviation
Organic Chemistry 2		o8-OC2-VL-152-m01
Module coordinator		Module offered by
holder of the Chair of Physically Organic Chemistry		Institute of Organic Chemistry
ECTS	Method of grading	Only after succ. compl. of module(s)
6	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>This module introduces students to the rules of aromaticity and discusses specific reactions of aromatics. Using the example of carbonyl compounds, it extends the students' knowledge of substitution, elimination and addition reactions to complex reaction mechanisms. The course also focuses on oxidation and reduction reactions as well as rearrangement.</p>		
Intended learning outcomes		
<p>Students have become familiar with the criteria for aromaticity. They can analyse the varying reactivity of carbonyl compounds. They are able to describe specific reactions of carbonyls and aromatics. For that purpose, they can plan and formulate multi-stage syntheses with complex reaction mechanisms and can transfer them to unknown reactions.</p>		
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)		
<p>a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English</p>		
Allocation of places		
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Additional information		
<p>according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. 1 2nd letter b) of annex 1 to the APOLmCh and No. 2 of annex 2 to the APOLmCh</p>		
Workload		
180 h		
Teaching cycle		
--		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
<p>§ 42 I Nr. 2 and § 22 II Nr. 1 h) § 62 I Nr. 2</p>		
Module appears in		
<p>Bachelor' degree (1 major) Functional Materials (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)</p>		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 36 / 51

First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015)
 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' 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 pages)		
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 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' degree (1 major) Biochemistry (2015) Bachelor' degree (1 major) Biology (2015) Bachelor' degree (1 major) Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2015) Bachelor' degree (1 major) Food Chemistry (2016) Bachelor' 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' degree (1 major) Food Chemistry (2019) Module studies (Bachelor) Orientierungsstudien (2020) Bachelor' degree (1 major) Biology (2021) Bachelor' degree (1 major) Food Chemistry (2021) Bachelor' degree (1 major) Biology (2022)		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 38 / 51

exchange program Mathematics (2023)

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. 1 2nd letter d) and No. 1 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' degree (1 major) Biology (2011) Bachelor' degree (1 major) Chemistry (2010) Bachelor' degree (1 major) Psychology (2010) Bachelor' degree (1 major) Economathematics (2012) 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) English and American Studies (2010) Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008) Bachelor's degree (1 major, 1 minor) German Language and Literature (2010) Bachelor's degree (2 majors) Classical Archaeology (2013) Bachelor's degree (2 majors) Philosophy (2013) Bachelor's degree (2 majors) Special Education (2009) Bachelor's degree (2 majors) Digital Humanities (2012) Bachelor's degree (2 majors) Russian Language and Culture (2012) Bachelor's degree (2 majors) European Ethnology (2013) Magister Theologiae Catholic Theology (2013)		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 40 / 51

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)
 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' degree (1 major) Biochemistry (2015)
 Bachelor' degree (1 major) Chemistry (2015)
 Bachelor' degree (1 major) Geography (2015)
 Bachelor' degree (1 major) Computer Science (2015)
 Bachelor' degree (1 major) Food Chemistry (2015)
 Bachelor' degree (1 major) Mathematics (2015)
 Bachelor' degree (1 major) Musicology (2015)
 Bachelor' degree (1 major) Physics (2015)
 Bachelor' degree (1 major) Psychology (2015)
 Bachelor' degree (1 major) Business Management and Economics (2015)
 Bachelor' degree (1 major) Nanostructure Technology (2015)
 Bachelor' degree (1 major) Biomedicine (2015)
 Bachelor' degree (1 major) Music Education (2015)
 Bachelor' degree (1 major) Computational Mathematics (2015)
 Bachelor' degree (1 major) Political and Social Studies (2015)
 Bachelor' degree (1 major) Functional Materials (2015)
 Bachelor' degree (1 major) Academic Speech Therapy (2015)
 Bachelor' 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) Music Education (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' 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' degree (1 major) Romanic Languages (French/Italian) (2016)
 Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2016)
 Bachelor' degree (1 major) Romanic Languages (Italian/Spanish) (2016)
 Bachelor' 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' 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' degree (1 major) Media Communication (2016)
 Bachelor' degree (1 major) Food Chemistry (2016)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
 Bachelor' 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' degree (1 major) Aerospace Computer Science (2017)
 Bachelor' degree (1 major) Biochemistry (2017)
 Bachelor' degree (1 major) Chemistry (2017)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)
 Bachelor' degree (1 major) Econometrics (2017)
 Bachelor' degree (1 major) Games Engineering (2017)
 Bachelor' degree (1 major) Computer Science (2017)
 First state examination for the teaching degree Gymnasium Greek Philology (2018)
 Bachelor' degree (1 major) Media Communication (2018)
 Bachelor' degree (1 major) Biomedicine (2018)
 Bachelor' 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' 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' degree (1 major) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Information Systems (2019)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Management and Economics (2019)
 Bachelor' degree (1 major) Modern China (2019)
 Bachelor' degree (1 major) Food Chemistry (2019)
 Bachelor' degree (1 major) Biomedicine (2020)
 Bachelor' degree (1 major) Pedagogy (2020)
 Bachelor' degree (1 major) Political and Social Studies (2020)
 Bachelor' 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' degree (1 major) Physics (2020)
 Bachelor' degree (1 major) Nanostructure Technology (2020)
 Bachelor' degree (1 major) Mathematical Physics (2020)
 Bachelor' 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' degree (1 major) Psychology (2020)
 Bachelor' 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' 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' degree (1 major) Functional Materials (2021)
 First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021)
 Bachelor' degree (1 major) Computer Science und Sustainability (2021)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021)
 Bachelor' degree (1 major) Food Chemistry (2021)
 Bachelor' degree (1 major) Quantum Technology (2021)
 Bachelor's degree (2 majors) Special Education (2021)
 Bachelor' degree (1 major) Business Information Systems (2021)
 Bachelor' degree (1 major) Econometrics (2021)
 Bachelor' degree (1 major) Business Management and Economics (2021)
 Bachelor' degree (1 major) Human-Computer Systems (2022)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2022)
 Bachelor' degree (1 major) Biochemistry (2022)
 Bachelor' degree (1 major) Biology (2022)
 Bachelor' degree (1 major) Econometrics (2022)
 Bachelor' degree (1 major) Mathematical Data Science (2022)
 Bachelor' 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' degree (1 major) Franco-German studies: language, culture, digital competence (2022)
 Bachelor' degree (1 major) Midwifery (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' 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' degree (1 major) Artificial Intelligence and Data Science (2023)
 Bachelor' degree (1 major) Mathematics (2023)
 Bachelor' degree (1 major) Business Information Systems (2023)
 Bachelor' degree (1 major) Econometrics (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' degree (1 major) Business Management and Economics (2023)
 Bachelor' 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' 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' 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' 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' 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' degree (1 major) Business Information Systems (2024)
 Bachelor' degree (1 major) Econometrics (2024)
 Bachelor' degree (1 major) Business Management and Economics (2024)
 Bachelor' 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' degree (1 major) Human-Computer-Interaction (2024)
 Bachelor's degree (2 majors) Art Education (2024)
 Bachelor' degree (1 major) Digital Business & Data Science (2024)
 Bachelor' degree (1 major) Classics (2024)
 Bachelor' degree (1 major) Diversity, Ethics and Religions (2024)

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. 1 2nd letter d) and No. 1 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)		
--		
Module appears in		
Bachelor' degree (1 major) Biology (2011) Bachelor' degree (1 major) Chemistry (2010) Bachelor' degree (1 major) Psychology (2010) Bachelor' degree (1 major) Economathematics (2012) 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) English and American Studies (2010) Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008) Bachelor's degree (1 major, 1 minor) German Language and Literature (2010) Bachelor's degree (2 majors) Classical Archaeology (2013)		
Bachelor's with 1 major Food Chemistry (2025)	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Bachelor (180 ECTS) Lebensmittelchemie - 2025	page 46 / 51

Bachelor's degree (2 majors) Philosophy (2013)
 Bachelor's degree (2 majors) Special Education (2009)
 Bachelor's degree (2 majors) Digital Humanities (2012)
 Bachelor's degree (2 majors) Russian Language and Culture (2012)
 Bachelor's degree (2 majors) European Ethnology (2013)
 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)
 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' degree (1 major) Biochemistry (2015)
 Bachelor' degree (1 major) Chemistry (2015)
 Bachelor' degree (1 major) Geography (2015)
 Bachelor' degree (1 major) Computer Science (2015)
 Bachelor' degree (1 major) Food Chemistry (2015)
 Bachelor' degree (1 major) Mathematics (2015)
 Bachelor' degree (1 major) Musicology (2015)
 Bachelor' degree (1 major) Physics (2015)
 Bachelor' degree (1 major) Psychology (2015)
 Bachelor' degree (1 major) Business Management and Economics (2015)
 Bachelor' degree (1 major) Nanostructure Technology (2015)
 Bachelor' degree (1 major) Biomedicine (2015)
 Bachelor' degree (1 major) Music Education (2015)
 Bachelor' degree (1 major) Computational Mathematics (2015)
 Bachelor' degree (1 major) Political and Social Studies (2015)
 Bachelor' degree (1 major) Functional Materials (2015)
 Bachelor' degree (1 major) Academic Speech Therapy (2015)
 Bachelor' 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) Music Education (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' 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' degree (1 major) Romanic Languages (French/Italian) (2016)
 Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2016)
 Bachelor' degree (1 major) Romanic Languages (Italian/Spanish) (2016)
 Bachelor' 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' 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' degree (1 major) Media Communication (2016)
 Bachelor' degree (1 major) Food Chemistry (2016)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
 Bachelor' 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' degree (1 major) Aerospace Computer Science (2017)
 Bachelor' degree (1 major) Biochemistry (2017)
 Bachelor' degree (1 major) Chemistry (2017)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)
 Bachelor' degree (1 major) Econometrics (2017)
 Bachelor' degree (1 major) Games Engineering (2017)
 Bachelor' degree (1 major) Computer Science (2017)
 First state examination for the teaching degree Gymnasium Greek Philology (2018)
 Bachelor' degree (1 major) Media Communication (2018)
 Bachelor' degree (1 major) Biomedicine (2018)
 Bachelor' 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' 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' degree (1 major) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Information Systems (2019)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Management and Economics (2019)
 Bachelor' degree (1 major) Modern China (2019)
 Bachelor' degree (1 major) Food Chemistry (2019)
 Module studies (Bachelor) Orientierungsstudien (2020)
 Bachelor' degree (1 major) Biomedicine (2020)
 Bachelor' degree (1 major) Pedagogy (2020)
 Bachelor' degree (1 major) Political and Social Studies (2020)
 Bachelor' 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' degree (1 major) Physics (2020)
 Bachelor' degree (1 major) Nanostructure Technology (2020)
 Bachelor' degree (1 major) Mathematical Physics (2020)
 Bachelor' 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' degree (1 major) Psychology (2020)
 Bachelor' 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' 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' degree (1 major) Functional Materials (2021)
 First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021)
 Bachelor' degree (1 major) Computer Science und Sustainability (2021)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021)
 Bachelor' degree (1 major) Food Chemistry (2021)
 Bachelor' degree (1 major) Quantum Technology (2021)
 Bachelor's degree (2 majors) Special Education (2021)
 Bachelor' degree (1 major) Business Information Systems (2021)
 Bachelor' degree (1 major) Economathematics (2021)
 Bachelor' degree (1 major) Business Management and Economics (2021)
 Bachelor' degree (1 major) Human-Computer Systems (2022)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2022)
 Bachelor' degree (1 major) Biochemistry (2022)
 Bachelor' degree (1 major) Biology (2022)
 Bachelor' degree (1 major) Economathematics (2022)
 Bachelor' degree (1 major) Mathematical Data Science (2022)
 Bachelor' 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' degree (1 major) Franco-German studies: language, culture, digital competence (2022)
 Bachelor' degree (1 major) Midwifery (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' 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' degree (1 major) Artificial Intelligence and Data Science (2023)
 Bachelor' degree (1 major) Mathematics (2023)
 Bachelor' degree (1 major) Business Information Systems (2023)
 Bachelor' 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' degree (1 major) Business Management and Economics (2023)
 Bachelor' 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' 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' 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' 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' 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' degree (1 major) Business Information Systems (2024)
 Bachelor' degree (1 major) Economathematics (2024)
 Bachelor' degree (1 major) Business Management and Economics (2024)
 Bachelor' 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' degree (1 major) Human-Computer-Interaction (2024)
 Bachelor's degree (2 majors) Art Education (2024)
 Bachelor' degree (1 major) Digital Business & Data Science (2024)
 Bachelor' degree (1 major) Classics (2024)
 Bachelor' degree (1 major) Diversity, Ethics and Religions (2024)