

# **Annex SFB**

## Studienfachbeschreibung (subject description, SFB) for the subject Mathematics as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

**Responsible:** Institute of Mathematics Examination regulations version: 2013 Abbreviations used: Course types:  $\mathbf{E} = \text{field trip}$ ,  $\mathbf{K} = \text{colloquium}$ ,  $\mathbf{O} = \text{conversatorium}$ ,  $\mathbf{P} = \text{placement/lab course}$ ,  $\mathbf{R} = \text{project}$ ,  $\mathbf{S} = \text{seminar}$ ,  $\mathbf{T} = \text{tutorial}$ ,  $\mathbf{\ddot{U}} = \text{exercise}$ ,  $\mathbf{V}$ = 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) Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-Conventions for the modules in this SFB: ditable for bonus. Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the me-Information on thod 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 assessment procedures: customary manner. Should a 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:

#### ASP02009

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

#### 08-Apr-2013 (2013-52)

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.

Every module will be described using the following form:

Abbreviation	Module title								
	ECTS		Durati	ion	(in semesters)	Method of grading		Module level	
	Courses			To be spe	ecified in the form X	(y) with course type 2	X abbreviated as specified abo	ove and number of we	ekly contact hours y
	Method of as	ssessm	nent						
	Only after su completion of	ccessf	ssful if applica		ble				
	Other prerequisites				ble				
	Participants and allocati- on of places			if applica	ble				
	Additional in	format	tion	if applica	ble				
	Referred to in	n LPO I		if applica	ble (examination re	gulations for teachin	g-degree programmes)		

Compulsory Course	es (109 ECTS cre	edits)								
10-M-ANA-122-	Analysis									
m01	ECTS 20	Duration		2 semester	Method of grading	g numerical grade	Modul level	undergraduate		
	Courses		<ul> <li>This module comprises 3 module components. Information on courses will be listed separately for each module component.</li> <li>10-M-ANA-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-ANA-2-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-ANA-P-122: M (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-ANA-P-122: M (no information on SWS (weekly contact hours) and course language available)</li> </ul>							
	Method of ass	essment	stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
			Asses: Asses: Asses:	sment in module of 8 ECTS, Method of written examinati- by an oral examin approx. 30 minute as subject of the (Prüfungsteilmod Language of asse Other prerequisite students about th a declaration of v assessment over dents who meet a assessment at a l sment in module of 8 ECTS, Method of written examinati- by an oral examin approx. 30 minute as subject of the (Prüfungsteilmod Language of asse Other prerequisite students about th a declaration of v assessment over dents who meet a ssessment over dents who meet a students about th a declaration of v assessment at a l sment in module of 4 ECTS, Method of a students about th a declaration of v assessment at a l	component 10-M-ANA of grading: (not) succ on (approx. 90 to 180 nation of one candid es). Module will also oral examination cov ul)) and this examina ssment: German, En es: Certain prerequis ne respective details will to seek admissio the course of the se all prerequisites will ater date, students v component 10-M-ANA of grading: (not) succ on (approx. 90 to 180 nation of one candid es). Module will also oral examination cov ul)) and this examina ssment: German, En es: Certain prerequis he respective details vill to seek admissio the course of the se all prerequisites will ater date, students v component 10-M-ANA f grading: numerical	A-1-122: Analysis 1 Analysis 1 essfully completed minutes); if announced by the leate each (approx. 20 minutes) of be considered successfully com- ering several modules (separate ation was passed. glish if agreed upon with the exa- tes must be met to qualify for ad at the beginning of the course. n to assessment. If students ha mester, the lecturer will put the be admitted to assessment in to vill have to obtain the qualificati A-2-122: Analysis 2 Analysis 2 essfully completed minutes); if announced by the leate each (approx. 20 minutes) be considered successfully com- ering several modules (separate at the beginning of the course. n to assessment. If students ha mester, the lecturer will put the be admitted to assessment in to vill have to obtain the qualificati A-2-122: Analysis 2 Analysis 2 essfully completed minutes); if announced by the leate each (approx. 20 minutes) be considered successfully com- ering several modules (separate at the beginning of the course. n to assessment. If students ha mester, the lecturer will put the be admitted to assessment in to vill have to obtain the qualificati A-P-122: Examination in Analysis grade	ecturer, the writte or an oral exam- pleted if the mo- e module compo- aminer mission to asse Registration for ve obtained the eir registration f he current or in on for admissio ecturer, the writte or an oral exam- pleted if the mo- e module compo- aminer mission to asse Registration for ve obtained the eir registration for he current or in on for admissio	en examination can be replaced ination in groups (groups of 2, odule component was selected onent for assessment purposes ssment. The lecturer will inform r the course will be considered e qualification for admission to or assessment into effect. Stu- the subsequent semester. For n to assessment anew. en examination can be replaced ination in groups (groups of 2, odule component was selected onent for assessment purposes ssment. The lecturer will inform r the course will be considered e qualification for admission to or assessment into effect. Stu- the subsequent semester. For n to assessment into effect. Stu- the subsequent semester. For n to assessment anew.		
			•	modules 10-M-AN Language of asse Only after succes	IA-1 and 10-M-ANA-2 ssment: German, En sful completion of n	glish if agreed upon with the exa nodule components: Successful	aminer completion of	the written examination in any		
Dashalawa				one of the other t	wo module compone	nts is a prerequisite for particip	<u>ation in module</u>	component 10-M-ANA-P.		
Bachelor's with 1 major N	nathematics (2013)	Sites	by way	<del>y or exception, aut</del>		JMU Würzburg • generated 26-Aug-2	024 • exam. reg. data	record 82 105 - - H 2013 page 3 / 60		
	Referred to in L	LPO I	§ 73 (1	) 1. Mathematik A	nalysis					

10-M-ANW-122-	Applied Mathematics												
m01	ECTS	20	Duration	1	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course			This r	nodule has 5 compo 10-M-NUM-1-122, 1 ber of weekly cont 10-M-ANW-P-112: N	onents; information o .o-M-NUM-2-122, 10-N act hours available) M (no information on l	n courses listed separately for e A-STO-1-122, and 10-M-STO-2-12 language and number of weekly	each componen 2: V + Ü (no info v contact hours	t. rmation on language and num- available)				
	Metho	d of asse	essment	This r sessn Asses nent : stik 1 • • • • • • • • • • • •	nodule has the follo nent components the sement in module co to-M-NUM-2-122: N (Stochastics 1), and 8 ECTS credits, pas written examinatio ced by an oral exa dates (approx. 30 as subject of the o (Prüfungsteilmodu Language of asses Additional prerequ turer will inform st be considered a de admission to asse effect. Students will ster. For assessme sement in module co 4 ECTS credits, nur oral examination co in the two module Language of asses Only after success dents who passed	owing 5 assessment of nat are first in the list l omponent 10-M-NUM umerische Mathemat d in module component ss / fail on (approx. 90 to 180 f mination of one cand minutes). The module oral examination cover (I)) and this examination sement: German; Engl uisites: To qualify for a cudents about the resp eclaration of will to se ssment over the cour ho meet all prerequisitent at a later date, stuc omponent 10-M-ANW- merical grading of one candidate each components selected ssment: German; Engl ful completion of mode the written examinat	omponents. To pass this modul below and the assessment com -1-122: Numerische Mathematik ik 2 (Numerical Mathematics 2) nt 10-M-STO-2-122: Stochastik minutes). If announced by the le idate each (approx. 20 minutes e component will also be consi ring several modules (separate ion is passed. ish if agreed upon with examine admission to assessment, stude pective details at the beginning eek admission to assessment. I se of the semester, the lecturer ites will be admitted to assessm dents will have to obtain the qua- rent swill have to obtain the qua- rent swill have to obtain the qua- ish if agreed upon with examined an (approx. 30 minutes). Assessm d by students. ish if agreed upon with examined dule components: Module comp- ion in one of the other four mod-	e, students mu ponent that is l (1 (Numerical M , <b>in module con</b> 2 (Stochastics 2 ecturer, the write b) or an oral exa dered successf module compo er(s) ents must meet of the course. f students have will put their re- nent in the curre- alification for ac- thematik (Asseenent will have r er(s) ponent 10-M-AN fulle component	st pass one out of the 4 as- ast in the list below. Mathematics 1), <b>in module compo- nponent 10-M-STO-1-122:</b> Stocha- 2) : ten examination may be repla- imination in groups of 2 candi- fully completed if it is selected nent for assessment purposes ccertain prerequisites. The lec- Registration for the course will e obtained the qualification for egistration for assessment into ent or in the subsequent seme- dmission to assessment anew. essment Applied Mathematics) reference to the topics covered NW-P can only be taken by stu- ts.				
	other p	orerequis	sites	By wa	By way of exception, additional prerequisites are listed in the section on assessments.								
	Additio	onal Info	rmation	Áddit	ional information or	n module duration: 1 t	o 2 semesters.						

10-M-LNA-122-m01	Linear Algebra	ar Algebra									
	ECTS 20	Duration	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	1	This module compris 10-M-LNA-1-12 10-M-LNA-2-12 10-M-LNA-P-12	es 3 module component 2: V + Ü (no information 2: V + Ü (no information 2: M (no information on	5. Information on courses will on SWS (weekly contact hours on SWS (weekly contact hour SWS (weekly contact hours) a	be listed separate s) and course lang s) and course lang nd course langua	ely for each module component. juage available) guage available) ge available)				
	Method of asse	essment A	Assessment in this m stated otherwise, suc	ssessment in this module comprises the assessments in the individual module components as specified below. Unless tated otherwise, successful completion of the module will require successful completion of all individual assessments.							
			Assessment in modu 8 ECTS, Metho written examin by an oral exa approx. 30 min as subject of t (Prüfungsteilm Language of a: Other prerequi students abou a declaration of assessment or dents who me assessment at Assessment in modu 8 ECTS, Metho written examin	le component 10-M-LNA d of grading: (not) succe ation (approx. 90 to 180 mination of one candida nutes). Module will also ne oral examination cove odul)) and this examina ssessment: German, Eng sites: Certain prerequisit t the respective details of will to seek admission ver the course of the ser et all prerequisites will h a later date, students w le component 10-M-LNA d of grading: (not) succe ation (approx. 90 to 180	omponent 10-M-LNA-1-122: Linear Algebra 1 Linear Algebra 1 f grading: (not) successfully completed on (approx. 90 to 180 minutes); if announced by the lecturer, the written examination can be replaced ation of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, es). Module will also be considered successfully completed if the module component was selected oral examination covering several modules (separate module component for assessment purposes al)) and this examination was passed. ssment: German, English if agreed upon with the examiner es: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform he respective details at the beginning of the course. Registration for the course will be considered vill to seek admission to assessment. If students have obtained the qualification for admission to the course of the semester, the lecturer will put their registration for assessment into effect. Stu- ill prerequisites will be admitted to assessment in the current or in the subsequent semester. For ater date, students will have to obtain the qualification for admission to assessment anew. omponent 10-M-LNA-2-122: Linear Algebra 2 Linear Algebra 2 f grading: (not) successfully completed						
			<ul> <li>by an oral exa approx. 30 min as subject of t (Prüfungsteilm</li> <li>Language of at</li> <li>Other prerequis students about a declaration of assessment of dents who me</li> </ul>	mination of one candida nutes). Module will also ne oral examination cover odul)) and this examina assessment: German, Eng sites: Certain prerequisit t the respective details of will to seek admission yer the course of the ser	te each (approx. 20 minutes be considered successfully co ring several modules (separa- tion was passed. lish if agreed upon with the e es must be met to qualify for a at the beginning of the cours to assessment. If students h nester, the lecturer will put the es admitted to assessment the	) or an oral exami ompleted if the mo te module compo xaminer admission to asses e. Registration for nave obtained the heir registration for	nation in groups (groups of 2, odule component was selected nent for assessment purposes ssment. The lecturer will inform the course will be considered qualification for admission to or assessment into effect. Stu-				
		4	Assessment at 4 ECTS, Metho oral examination modules 10-M	a later date, students with a later date, students w le component 10-M-LNA- d of grading: numerical s on of one candidate ea -LNA-1 and 10-M-LNA-2	Il have to obtain the qualifica <b>P-122:</b> Examination in Linear grade ch (approx. 30 minutes); ass	ation for admission Algebra sessment will hav	e reference to the contents of				
			<ul> <li>Language of a:</li> <li>Only after suc one of the other</li> </ul>	ssessment: German, Eng cessful completion of m er two module componer	lish if agreed upon with the e odule components: Successf its is a prerequisite for partici	xaminer ul completion of t pation in module	he written examination in any component 10-M-LNA-P.				
	other prerequis	sites E	By way of exception,	additional prerequisites	are listed in the section on as	ssessments.					
Bachelor's with 1 major N	Mathematics (2013)		• • • • • • • • • • • • • • • • • • • •		JMU Würzburg • generated 26-Aug	g-2024 ● exam. reg. data r	ecord 82 105 - - H 2013 page 5 / 60				

10-M-REI-122-m01	Pure M	e Mathematics											
	ECTS	20	Duratio	1	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	:5		<ul> <li>This module has 7 components; information on courses listed separately for each component.</li> <li>10-M-ALG-1-122, 10-M-DGE-1-122, 10-M-DGL-1-122, 10-M-FTH-1-122, 10-M-GAN-1-122, and 10-M-PGE-1-122: V + Ü (no information on language and number of weekly contact hours available)</li> <li>10-M-REI-P-122: M (no information on language and number of weekly contact hours available)</li> </ul>									
	Methoo	d of asse	essment	This m sessm poner	This module has the following 7 assessment components. To pass this module, students must select two out of the 6 as- sessment components that are first in the list below and pass one of them, furthermore they must pass the assessment component that is last in the list below.								
				Asses 10-M- DGL-1 führur Analys on to l • • • • • • • • • • • • •	sment in module c DGE-1-122: Einführ -122: Gewöhnlichen ing in die Funktionen sis (Geometric Anal Projective Geometri 8 ECTS credits, pa written examinatio ced by an oral exa dates (approx. 30 as subject of the co (Prüfungsteilmodu Language of asses Additional prerequ turer will inform st be considered a d admission to asses effect. Students w ster. For assessment sment in module co 4 ECTS credits, nu oral examination of in the two module Language of asses Only after success	omponent 10-M-ALG- rung in die Differential Differentialgleichung ntheorie (Introduction lysis), and in module y): uss / fail on (approx. 90 to 180 amination of one cand minutes). The modul oral examination cove ul)) and this examinat ssment: German; Eng uisites: To qualify for tudents about the res leclaration of will to s essment over the court ho meet all prerequist ent at a later date, stu omponent 10-M-REI-F merical grading of one candidate eacle components selecte ssment: German; Eng sful completion of mod	<b>1-122:</b> Einführung in di geometrie (Introductio en (Ordinary Differenti in to Complex Analysis), <b>component 10-M-PGE</b> minutes). If announced lidate each (approx. 20 e component will also ring several modules ( ion is passed. lish if agreed upon with admission to assessm pective details at the k eek admission to asses se of the semester, the ites will be admitted to dents will have to obta <b>P-122:</b> Prüfung Reine M n (approx. 30 minutes) d by students. lish if agreed upon with odule components: Mo-	ie Algebra (Introduction on to Differential Geomet (al Equations), <b>in module</b> <b>-1-122:</b> Einführung in die d by the lecturer, the wri o minutes) or an oral exa- be considered success (separate module compo- h examiner(s) ent, students must mee beginning of the course. issment. If students hav e lecturer will put their r bassessment in the curr in the qualification for a lathematik (Assessment b. Assessment will have h examiner(s)	to Algebra), in module component try), in module component 10-M- e component 10-M-FTH-1-122: Ein- 10-M-GAN-1-122: Geometrische e Projektive Geometrie (Introducti- tten examination may be repla- amination in groups of 2 candi- fully completed if it is selected onent for assessment purposes t certain prerequisites. The lec- Registration for the course will e obtained the qualification for egistration for assessment into ent or in the subsequent seme- dmission to assessment anew. Pure Mathematics) reference to the topics covered				
	othern	rerequie	ites	By wa	v of exception add	titional prerequisites	are listed in the section	n on assessments					
	Other prerequisites			Additi	onal information of	n module duration: 1	to 2 semesters.						

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10-M-SPZ-122-m01	2-mo1 Advanced Mathematics										
	ECTS 20	Duratior	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		This r	<ul> <li>his module has 15 components; information on courses listed separately for each component.</li> <li>10-M-NUM-1-122, 10-M-NUM-2-122, 10-M-STO-1-122, 10-M-STO-2-122, 10-M-ALG-1-122, 10-M-DGE-1-122, DGL-1-122, 10-M-FTH-1-122, 10-M-GAN-1-122, 10-M-PGE-1-122, 10-M-DIM-1-122, 10-M-FAN-1-122, 10-M-ORS-1 10-M-ZTH-1-122: V + Ü (no information on language and number of weekly contact hours available)</li> <li>10-M-SPZ-P-122: M (no information on language and number of weekly contact hours available)</li> </ul>							
	Method of asse	essment	This r sessn <b>Asses</b>	nodule has the foll nent components t	lowing 15 assessment hat are first in the list component 10-M-NUN	components. To pass this mo below and the assessment co I-1-122: Numerische Mathema	odule, students m omponent that is atik 1 (Numerical I	ust pass one out of tl last in the list below. Mathematics 1), <b>in m</b> o	ne 14 as-		
			Asses poner chast ALG-1 rentia chung ductio le cor poner nent : ORS-: Numb • • • • •	ssment in module on nt 10-M-NUM-2-12: ik 1 (Stochastics 1) 1-122: Einführung in algeometrie (Introd gen (Ordinary Diffe on to Complex Ana nponent 10-M-PGE nt 10-M-DIM-1-122: Ei 1-122: Operations f ber Theory) : 8 ECTS credits, pa written examinati ced by an oral ex- dates (approx. 30 as subject of the (Prüfungsteilmod Language of asse Additional prereq turer will inform s be considered a of admission to ass effect. Students v ster. For assessm ssment in module cor Language of assee Only after succes dents who passed	component 10-M-NUW 2: Numerische Mather 1, in module componen 1 die Algebra (Introdu- uction to Differential C rential Equations), in 1 lysis), in module comp 5-1-122: Einführung in die Dis 1 führung in die Funkt Research, and in module ass / fail 1 führung in die Funkt Research, and in module ass / fail 1 führung in die Funkt Research, and in module ass / fail 1 führung in die Funkt Research, and in module ass / fail 1 führung in die Funkt Research, and in module ass / fail 1 führung in die Funkt Research, and in module ass / fail 1 führung in die Funkt Research, and in module 1 fü	I-1-122: Numerische Mathemat natik 2 (Numerical Mathemat nt 10-M-STO-2-122: Stochasti ction to Algebra), in module co Geometry), in module compon module component 10-M-FTH ponent 10-M-GAN-1-122: Geor die Projektive Geometrie (Intri- krete Mathematik (Introduction ionalanalysis (Introduction to ule component 10-M-ZTH-1-12 minutes). If announced by the didate each (approx. 20 minu- le component will also be con- ering several modules (separa- tion is passed. lish if agreed upon with exam admission to assessment, stu- spective details at the beginni eek admission to assessment rse of the semester, the lectur- sites will be admitted to assess dents will have to obtain the o- P-122: Prüfung in Ergänzung in h (approx. 30 minutes). Assess students. lish if agreed upon with exam odule components: Module co- tion in one of the other 14 mo	attik 1 (Numerical / ics 2), in module k 2 (Stochastics 2 component 10-M-E ent 10-M-DGL-1-1 -1-122: Einführung netrische Analysi oduction to Projecton fon to Discrete Mar Functional Analysi e lecturer, the writtes) or an oral exa nsidered successite module compo- iner(s) udents must meeting of the course. t. If students have rer will put their re- sment in the curre- qualification for a Mathematik (Asse assment will have to iner(s) omponent 10-M-E dule components	Mathematics 1), in mo component 10-M-STC 2), in module compon DGE-1-122: Einführung 22: Gewöhnliche Diff g in die Funktionenth s (Geometric Analysis ctive Geometry), in m thematics), in module sis), in module compo die Zahlentheorie (Int tten examination may amination in groups o fully completed if it is onent for assessment t certain prerequisite Registration for the o e obtained the qualifie egistration for assess ent or in the subsequ dmission to assessment essment in Selected T reference to the topic RG-P can only be tak	Jule com- J-1-122: Sto- ent 10-M- ; in die Diffe- erentialglei- eorie (Intro- s), in modu- odule com- e compo- pnent 10-M- roduction to / be repla- of 2 candi- s selected purposes s. The lec- course will ication for sment into ent seme- ent anew. Fopics from as covered en by stu-		
	other prerequis	sites	By wa	y of exception, add	ditional prerequisites	are listed in the section on as	sessments.				
	Additional Info	ormation	Addit	ional information c	on module duration: 1	to 2 semesters.			1		
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10-M-VAN-122-	Advand	dvanced Analysis										
m01	ECTS	9	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)				
	Methoo	d of asse	essment	writte	n examination (app	rox. 90 to 180 minute	es)					
				if ann	ounced by the lectu	rer, the written exam	ination can be replaced by an o	ral examination	n of one candidate each (approx.			
				Langu	lage of assessment:	German, English if a	greed upon with the examiner	<i></i>	_			
	other p	prerequis	sites	Certai tive d on to the le sessm ficatio	tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission for admission to assessment are used.							
<b>Compulsory Electiv</b>	es (40 E	CTS cree	dits)									
<b>Compulsory Electiv</b>	es Math	nematics	;									
10-M-EFM-122-m01	Introdu	uction to	Stochas	tic Fina	ancial Mathematics							
	ECTS	9	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)				
	Methoo	d of asse	essment	writte if ann 20 mi Langu	written examination (approx. 90 to 180 minutes) if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other p	prerequis	ites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								

10-M-ERG-122-m01	O1 Selected Topics from Mathematics										
	ECTS 10	Duration	1 2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		This module has 15 co • 10-M-NUM-1-122 DGL-1-122, 10-N 10-M-ZTH-1-122 • 10-M-ERG-P-122	nt. -122, 10-M-DGE-1-12 AN-1-122, 10-M-ORS-1 rs available) available)	2, 10-M- -122, and						
	Method of asse	essment	This module has the for sessment components	llowing 15 assessment that are first in the list	components. To pass this mod below and the assessment cor	lule, students m nponent that is l	ust pass one out of th last in the list below.	ne 14 as-			
			Assessment in module ponent 10-M-NUM-2-1 chastik 1 (Stochastics ALG-1-122: Einführung rentialgeometrie (Intro chungen (Ordinary Diff duction to Complex An le component 10-M-PG ponent 10-M-DIM-1-12: ORS-1-122: Operations Number Theory) : 8 ECTS credits, • written examina ced by an oral e dates (approx. as subject of the (Prüfungsteilmo Language of ass • Additional prefe turer will inform be considered a admission to as effect. Students ster. For assess Assessment in module matics) • 4 ECTS credits, 1 • oral examinatio in the two modu Language of ass • Only after succe	<b>component 10-M-NUA</b> <b>22:</b> Numerische Mathe <b>1), in module compone</b> in die Algebra (Introdu duction to Differential erential Equations), <b>in</b> alysis), <b>in module com</b> <b>iE-1-122:</b> Einführung in die Dis Einführung in die Funkt Research, and <b>in mod</b> pass / fail tion (approx. 90 to 1800 xamination of one can go minutes). The modu e oral examination cove dul)) and this examina sessment: German; Eng equisites: To qualify for students about the res declaration of will to se sessment over the cou who meet all prerequis ment at a later date, stu <b>e component 10-M-SPZ</b> numerical grading n of one candidate eace sessment: German; Eng essful completion of m	A-1-122: Numerische Mathematic matik 2 (Numerical Mathematic nt 10-M-STO-2-122: Stochastik ction to Algebra), in module con Geometry), in module compone module component 10-M-FTH-1 ponent 10-M-GAN-1-122: Geom die Projektive Geometrie (Introd skrete Mathematik (Introduction ionalanalysis (Introduction to F ule component 10-M-ZTH-1-122 minutes). If announced by the didate each (approx. 20 minute le component will also be conse ering several modules (separate tion is passed. glish if agreed upon with examin seek admission to assessment, stud spective details at the beginnin seek admission to assessment. rse of the semester, the lecture sites will be admitted to assess idents will have to obtain the qu -P-122: Prüfung in Spezialisieru h (approx. 30 minutes). Assess ed by students. glish if agreed upon with examin odule components: Module cor	ik 1 (Numerical A is 2), in module of 2 (Stochastics 2 mponent 10-M-D nt 10-M-DGL-1-1 -122: Einführung etrische Analysig duction to Project n to Discrete Mat functional Analysig is Einführung in co lecturer, the writt es) or an oral exast is dered successf e module componer her(s) dents must meet g of the course. If students have re will put their re- ment in the curre- ualification for a sment will have re- her(s) mponent 10-M-S	Aathematics 1), in mo component 10-M-STO ), in module compon GE-1-122: Einführung 22: Gewöhnliche Diff g in die Funktionentho s (Geometric Analysis ctive Geometry), in mo thematics), in module sis), in module compo die Zahlentheorie (Int ten examination may mination in groups o fully completed if it is nent for assessment c certain prerequisites Registration for the c e obtained the qualifi egistration for assess ent or in the subseque dmission to assessm (Assessment in Adva reference to the topic PZ-P can only be take	odule com- ol-1-122: Sto- ent 10-M- g in die Diffe- erentialglei- eorie (Intro- s), in modu- odule com- e compo- onent 10-M- roduction to be repla- of 2 candi- s selected purposes s. The lec- ourse will cation for ment into ent seme- ent anew. nced Mathe- s covered en by stu-			
	other proroquir	sitos	By way of exception, additional proroquisites are listed in the certian on accessments.								
	Additional Info	siles	Additional information	on modulo durations a	to a comostors	essillents.					
Bachelor's with 1 major M	Additional IIIIO Mathematics (2013)	mildtion	Auditional mormation	on moutle duration: 1	JMU Würzburg • generated 26-Aug-2	024 • exam. reg. data r	ecord 82 105 - - H 2013	page 9 / 60			

10-M-MKG-122-	Mathematics in Culture and Society												
m01	ECTS	8	Duratior	n 2 semester Method of grading (not) successfully completed Modul level undergraduate									
	Course	S		<ul> <li>This module has 4 components; information on courses listed separately for each component.</li> <li>10-M-GES-1-122, 10-M-MSC-1-122, and 10-M-SCH-1-122: V + Ü (no information on language and number of weekly contact hours available)</li> <li>10-M-PRO-1-122: S (no information on language and number of weekly contact hours available)</li> </ul>									
	Metho	d of ass	essment	This module has the following 4 assessment components. To pass the module as a whole students must pass two of the four assessment components.									
				<ul> <li>from the History of Mathematics), in module component 10-M-MSC-1-122: Mathematisches Schreiben (Mathematical Writing), and in module component 10-M-SCH-1-122: Schulmathematik vom höheren Standpunkt (School Mathematics from a Higher Perspective):</li> <li>4 ECTS credits, pass / fail</li> <li>project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course)</li> <li>Assessment will be offered in the semester in which the course is offered and in the subsequent semester.</li> <li>Language of assessment: German; English if agreed upon with examiner(s)</li> <li>Additional prerequisites: To qualify for admission to assessment, students must meet certain prerequisites. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment at later date, students will have to obtain the qualification for admission to assessment at later date, students will have to obtain the qualification for admission to assessment anew.</li> </ul> Assessment in module component 10-M-PRO-1-122: Proseminar Mathematik (Proseminar Mathematics) <ul> <li>4 ECTS credits, pass / fail</li> <li>talk (approx. 60 to 180 minutes)</li> <li>Assessment will be offered in the semester in which the course is offered and in the subsequent semester.</li> <li>Language of assessment: German; English if agreed upon with examiner(s)</li> <li>Additional prerequisites: To qualify for admission to assessment, students must meet certain prerequisites. The lecturer will inform students about the respective details at the beginning of the course is offered and in the subsequent semester.</li> </ul>									
			-:+	ster. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew.									
	other p	orerequi	sites	By way of exception, additional prerequisites are listed in the section on assessments.									
	Auuille	matiiii0	miduon	Auutional mormation on moutle duration: 1 to 2 semesters.									

10-M-SE2-122-m01	Additio	onal Sen	ninar in M	lathem	atics							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		S (no	5 (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	talk (a Langu	alk (approx. 60 to 180 minutes) anguage of assessment: German, English if agreed upon with the examiner							
	other p	orerequis	sites	Certai tive de on to a the lee sessm ficatio	n prerequisites mus etails at the beginnir assessment. If stude cturer will put their r hent in the current or on for admission to a	t be met to qualify for ng of the course. Regi ents have obtained th egistration for assess r in the subsequent so issessment anew.	r admission to assessment. The stration for the course will be o e qualification for admission to sment into effect. Students who emester. For assessment at a la	e lecturer will in considered a de o assessment o o meet all prere ater date, stude	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- nts will have to obtain the quali-			

## Application-oriented Subject (30 ECTS credits)

Students must take one of the following application-oriented subjects, each with the specified mandatory courses and/or mandatory electives: Biologie (Biology), Chemie (Chemistry), Geographie (Geography), Informatik (Computer Science), Philosophie (Philosophy), Physik (Physics), Wirtschaftswissenschaft (Business Management and Economics).

### Application-oriented Subject Biology (40 ECTS credits)

#### Application-oriented Subject Biology Compulsory Electives (14 ECTS credits)

07-1A1ZO-NF-102-	From C	ells to C	Organisms							
m01	ECTS	10	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		<ul> <li>This module has 4 components; information on courses listed separately for each component.</li> <li>o7-1A1ZO-3P-072, o7-1A1ZO-4T-072, and o7-1A1ZO-2E-102: V + Ü (no information on language and number of weekly contact hours available)</li> <li>o7-1A1ZO-NF-1Z-082: V (no information on language and number of weekly contact hours available)</li> </ul>						
	Metho	d of ass	essment	This module has the following 4 assessment components. Unless stated otherwise, students must pass all of these as- sessment components to pass the module as a whole.						
				Asses Asses Asses	sment in module co 4 ECTS credits, num written examination Additional prerequi completion of the r sment in module co 4 ECTS credits, num written examination Additional prerequi as well as successf sment in module co 1 ECTS credit, nume written examination sment in module co 1 ECTS credit, pass written examination Additional prerequi pletion of the respect	mponent 07-1A1ZO-3 merical grading n (approx. 60 minute sites: admission pre- espective exercises. mponent 07-1A1ZO-4 merical grading n (approx. 60 minute sites: admission pre- ul completion of the mponent 07-1A1ZO-1 erical grading n (approx. 60 minute mponent 07-1A1ZO-2 / fail n (approx. 30 minute sites: admission pre- ective exercises as sp	<b>P-072:</b> Das Pflanzenreich (The s) requisite to assessment: regular <b>I-072:</b> Das Tierreich (The Anim s) requisite to assessment: regular respective exercises as specifie <b>IF-1Z-082:</b> Die Zelle für das Neb s) including multiple choice qui <b>ref-102:</b> Evolution s, including multiple choice qui requisite to assessment: regula becified at the beginning of the	Plant Kingdom) r attendance of al Kingdom) ar attendance of ed at the beginr benfach Biologic estions estions) r attendance of course.	exercises as well as successful and participation in exercises ing of the course. (The Cell for Biology Minors) e (The Cell for Biology Minors)	
	other prerequisites			By wa	y of exception, addit	tional prerequisites a	are listed in the section on asse	ssments.		

07-2A2GN-	Genetics, Neurobiology, Behaviour											
V-072-m01	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		This n	nodule comprises 3 07-2A2GNV-1G-072 07-2A2GNV-2N-07 07-2A2GNV-3V-072	module components 2: V + Ü (no informatio 2: V + Ü (no informati 2: V + Ü (no informatio	. Information on courses on on SWS (weekly conta on on SWS (weekly conta on on SWS (weekly conta	will be listed separate act hours) and course act hours) and course act hours) and course act hours) and course	ely for each module component. language available) language available) language available)				
	Method of asse	essment	Asses stated	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.								
			Asses Asses Asses	<ul> <li>Assessment in module component o7-2A2GNV-1G-072: Basic Genetics Basic Genetics</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> <li>Assessment in module component o7-2A2GNV-2N-072: Basic Neurobiology Basic Neurobiology</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> <li>Assessment in module component o7-2A2GNV-2N-072: Basic Neurobiology Basic Neurobiology</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> <li>Assessment in module component o7-2A2GNV-3V-072: Behavioural Biology Behavioural Biology</li> <li>2 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 30 minutes, word problems and/or multiple choice questions)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> </ul>								
	other prerequis	sites	By wa	y of exception, add	itional prerequisites a	are listed in the section of p places	on assessments.					
	cation of place	S	onty t									
07-2BM-072-m01	Mathematical	Biology a	nd Bio	statistics								
	ECTS 4	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)									
	Method of asse	essment	writte	n examination (app	rox. 45 minutes) inclu	iding multiple choice qu	estions					
	other prerequis	sites	Admis as sp	ssion prerequisite to ecified at the begin	o assessment: regula ning of the course.	attendance of exercises	s and successful comp	oletion of the respective exercises				
	Participants an cation of place	nd allo- s	Only a	as part of "spezielle	s Studienangebot": 3	o places.						
07-3A3EBI-	Developmenta	l Biology	of Anir	nals								
OT-102-m01	ECTS 4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course langu	age available)	•				
	Method of asse	essment	writte	n examination (app	rox. 30 to 60 minutes	) including multiple choi	ice questions					
	other prerequis	sites	Admis as sp	ssion prerequisite to ecified at the begin	o assessment: regula ning of the course.	rattendance of exercises	s and successful comp	letion of the respective exercises				
Bachelor's with 1 major M	Mathematics (2013)					JMU Würzburg • generated 2	26-Aug-2024 • exam. reg. data r	record 82 105 - - H 2013 page 13 / 60				

						0					
07-3A30E-102-	Plant and Anin	nal Ecolog	У								
m01	ECTS 6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		This module comprises 2 • 07-3A3OE-1-102: V • 07-3A3OE-2-102: V	module components + Ü (no information of + Ü (no information	s. Information on courses will be on SWS (weekly contact hours) on SWS (weekly contact hours)	e listed separate and course lang and course lang	ely for each module component. guage available) guage available)				
	Method of ass	essment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless								
	Method of ass	essment	stated otherwise, success	sful completion of the	e module will require successfu	l completion of	all individual assessments.				
	other proroqui	icitos	<ul> <li>Assessment in module component o7-3A3OE-1-102: Animal Ecology Animal Ecology         <ul> <li>3 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 45 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> </ul> </li> <li>Assessment in module component o7-3A3OE-2-102: Plant Ecology Plant Ecology         <ul> <li>3 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 45 minutes)</li> <li>3 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 45 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.</li> </ul></li></ul>								
	other prerequi	isites	By way of exception, addi	tional prerequisites a	are listed in the section on asse	essments.					
	Participants ar cation of place	nd allo- es	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.								
<b>Application-oriente</b> When taking up the the list below. Mod credits in the area	ed Subject Biolo air studies, stud ules from the an of mandatory ele	<b>ogy Compu</b> lents are hi reas "Spez ectives 1 b	Ilsory Electives 2 (16 ECTS ighly recommended to cor ielle Biowissenschaften I eforehand.	credits) Isult with the course / II" ("Specific Biosci	advisory service Biology that w ences I / II") may only be used I	ill help them ch by students wh	oose appropriate modules from o achieved no less than 14 ECTS				
07-2A2PPR-	Basic Physiolo	ogy of Prok	caryotes for minor field of	study							
NF-082-m01	ECTS 3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü (no information on S	SWS (weekly contact	hours) and course language av	ailable)					
	Method of ass	essment	written examination (appr	rox. 60 minutes) incl	uding multiple choice question:	S	-				
07-2A2PPF-	Basic Physiolo	ogy of Plan	its for minor field of study	,							
NF-082-m01	ECTS 3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of ass	essment	nent written examination (approx. 45 minutes)								
	other prerequi	isites	Admission prerequisite to as specified at the beginn	assessment: regula	r attendance of exercises and s	uccessful comp	letion of the respective exercises				

07-2A2TP-NF-082-	Basic P	Basic Physiology of Animals for minor field of study											
m01	ECTS	3	Duratior	ו	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language a	vailable)					
	Method	l of asse	essment	writte	n examination (appı	rox. 60 minutes, wor	d problems and/or multiple cl	noice questions)					
	other p	other prerequisites			Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.								
07-3A3E-	Develo	pmenta	l Biology	of Plar	nts for minor field of	study							
BIOP-102-m01	ECTS	ECTS 4 Duration			1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			writte	written examination (approx. 30 to 60 minutes) including multiple choice questions								
	other p	rerequis	sites	Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercise as specified at the beginning of the course.									
07-3A3GM-	Genes,	Genes, Molecules, Technologies											
T-102-m01	ECTS	6	Duration	I	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			This n	nodule has 4 compo 07-3A3GMT-1-102, number of weekly o	nents; information o 07-3A3GMT-2-102, o contact hours availat	n courses listed separately fo 7-3A3GMT-3-102, and 07-3A3 ole)	r each componer GMT-4-102: V (no	nt. o information on language and				
	Method of assessment			This n sessn Asses matik 07-3A	nodule has the follo nent components to <b>sment in module co</b> (Bioinformatics), <b>in</b> 3 <b>GMT-4-102:</b> Pharm 1.5 ECTS credits, nu written examinatio	wing 4 assessment c pass the module as <b>mponent 07-3A3GM</b> <b>module component</b> takokinetik (Pharmac umerical grading n (approx. 30 minute	omponents. Unless stated oth a whole. <b>T-1-102:</b> Genetik (Genetics), <b>ir</b> <b>07-3A3GMT-3-102:</b> Biotechno cokinetics) : es, including multiple choice q	nerwise, students <b>1 module compo</b> logie (Biotechno uestions)	s must pass all of these as- nent 07-3A3GMT-2-102: Bioinfor- logy), and <b>in module component</b>				
07-3A3B-	Princip	les of B	iochemist	try									
C-102-m01	ECTS	4	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language a	vailable)					
	Method	l of asse	essment	written examination (approx. 30 to 60 minutes) including multiple choice questions									
	other prerequisites			Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.									

07-4A4FL-102-m01	2-mo1 The Flora of Germany										
	ECTS	7	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		This m	odule comprises 2 07-4A4FL-1-102: V + 07-4A4FL-2-102: E (	module components - Ü (no information o (no information on SV	. Information on courses will be n SWS (weekly contact hours) a VS (weekly contact hours) and	e listed separate and course lang course languag	ely for each module component. uage available) e available)		
	Metho	d of asse	essment	Asses stated	sment in this modul otherwise, success	e comprises the asse ful completion of the	essments in the individual moc module will require successfu	lule component l completion of	s as specified below. Unless all individual assessments.		
				Asses Asses	sment in module co 4 ECTS, Method of a written examination Assessment offered Other prerequisites tion of the respecti beginning of the co sment in module co 3 ECTS, Method of a log (approx. 1 to 2 p Assessment offered	of Germany Intro Issignment (app tendance of exe he setting up a lora of Germany	oduction to the Flora of Germany prox. 45 minutes), weighted 1:1 rcises and successful comple- herbarium) as specified at the				
	other p	orerequis	sites	By wa	y of exception, addi	tional prerequisites a	are listed in the section on asse	essments.			
	Particiț cation	oants an of place	d allo- s	Numb follow dits. S Bache will be Bache of the ber of from t re will ponen cessft waitin prima ked ac studie thema ding to to the lated a the sa (5%):	er of places: 180. Sh s: Places will primar hould the module b lor's degree subject allocated to studer lor's degree subject application-orientee places available in he other quota. Sho be a uniform regula t that are concerned ally completed at lea g list will be maintai rily be allocated acc cording to the num s or of all module co tik (Mathematics)) a o their average grad ir total number of EC as the sum of these me ranking, places Places will be allocated yed in modules/mod yed, places will be a	nould the number of a rily be allocated to st be used in other subject Biologie (Biology) we that of the Bachelor's as Computational Mark d subject Biology (as one quota exceed the uld there be, within of the courses of d will be allocated in ast one other module ined and places re-al ording to the application ber of ECTS credits the omponents in the sub at the time of application the time of application applied according CTS credits achieved two rankings, and pla- will be allocated according to the application at the time of application the same number of to a stated according to the application of the application at the time of application at the time of application at the time of application the allocated according two rankings, and pla- will be allocated according to the dule components of t	applications exceed the number udents of the Bachelor's degree ects, there will be two quotas: g ith 180 ECTS credits and 5% of degree subject Biologie (Biolog thematics and Mathematik (Ma well as potentially to students e number of applications, the r one module component, severa of one module component. In the a standardised procedure. In the component of the respective n located as they become availa nts' previous academic achiev usy have achieved and their ave object of Biologie (Biology) (excli- tion. This will be done as follow g to the number of ECTS credits (quantitative ranking). The app aces will be allocated accordin ording to the qualitative rankin following quotas: Quota 1 (50% he Faculty of Biology; among a a 2 (25% of places): number of biert semesters, places will be	er of available p e subject Biolog 95% of places w places (a minin gy) with 60 ECTS of other 'impor emaining places al courses with a his case, places his procedure, a nodule will be g ble. Selection p ements. For this erage grade of a uding Chemie (( ws: First, applica (qualitative rar licants' position g to this third ra g or otherwise b % of places): tot pplicants with t subject semest	laces, places will be allocated as gie (Biology) with 180 ECTS cre- till be allocated to students of the num of one participant in total) credits and to students of the th with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- on all courses of a module com- upplicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- nking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t Quota 2 (25% of places): allo-		
Bachelor's with 1 major N	athematic	s (2013)					JMU Würzburg • generated 26-Aug-20	24 • exam. reg. data r	ecord 82 105 - - H 2013 page 16 / 60		
				ces wi	Il be allocated acco	rding to the selection	process of group 1.				

07-4A4FA-102-m01	101 The Fauna of Germany											
	ECTS	7 Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	5	This r	<ul> <li>ihis module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o7-4A4FA-1-102: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>o7-4A4FA-2-102: E (no information on SWS (weekly contact hours) and course language available)</li> </ul>								
	Method	l of assessment	Asses stated	ssessment in this module comprises the assessments in the individual module components as specified below. Unl tated otherwise, successful completion of the module will require successful completion of all individual assessmen								
	<ul> <li>Assessment in module component o7-4A4FA-1-102: Introduction to the Fauna of Germany Introduction to the Fauna on ny         <ul> <li>4 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 45 minutes) and practical identification assignment (approx. 45 minutes), weight</li> <li>Assessment offered: once a year, summer semester</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises and successful contion of the respective exercises (particular emphasis to be placed on the setting up a herbarium) as specified beginning of the course.</li> </ul> </li> <li>Assessment in module component o7-4A4FA-2-102: Field Excursions on the Fauna of Germany         <ul> <li>3 ECTS, Method of grading: (not) successfully completed</li> <li>log (approx. 1 to 2 pages per field trip)</li> <li>Assessment offered: once a year, summer semester</li> </ul> </li> </ul>											
	other p	rerequisites	By wa	y of exception, addi	tional prerequisites	are listed in the section on ass	essments.					
Bachelor's with 1 maior M	Particip cation of	ants and allo- of places	Numb follow dits. 9 Bache will b Bache of the ber of from f re wil pone cessf waitir prima ked a studie them ding t to the lated the sa (5%): achie	per of places: 180. Si ys: Places will prima Should the module be elor's degree subject e allocated to stude elor's degree subject application-oriente places available in the other quota. Sho be a uniform regula to that are concerned ully completed at lea ng list will be mainta rily be allocated acc ccording to the num es or of all module c atik (Mathematics)) o their average grad ir total number of EC as the sum of these ame ranking, places Places will be allocated yed in modules/mod yed, places will be allocated yed in modules/mod	hould the number of rily be allocated to stope used in other subject Biologie (Biology) we nts of the Bachelor's ts Computational Mar d subject Biology (as one quota exceed the puld there be, within ation for the courses d will be allocated in ast one other module ined and places re-a cording to the applicate ber of ECTS credits the omponents in the su at the time of applicate le weighted accordin CTS credits achieved two rankings, and place will be allocated according to the dule components of the allocated by lot. Quot	applications exceed the numb cudents of the Bachelor's degre ects, there will be two quotas: vith 180 ECTS credits and 5% of degree subject Biologie (Biolo thematics and Mathematik (M s well as potentially to students e number of applications, the one module component, sever of one module component, sever of one module component. In t a standardised procedure. In t e component of the respective of llocated as they become availa ants' previous academic achiev have achieved and their av bject of Biologie (Biology) (exc ation. This will be done as follo g to the number of ECTS credits (quantitative ranking). The applicates will be allocated accordir ording to the qualitative ranking following quotas: Quota 1 (50° the Faculty of Biology; among a a 2 (25% of places): number of	er of available p ee subject Biolo 95% of places v f places (a minin gy) with 60 ECT athematics), ea s of other 'impor remaining place al courses with this case, places this procedure, a module will be g able. Selection p vements. For this rerage grade of a luding Chemie ( ws: First, applic s (qualitative ran policants' position g to this third ran g or otherwise % of places): to applicants with the f subject semess	places, places will be allocated as gie (Biology) with 180 ECTS cre- vill be allocated to students of the mum of one participant in total) S credits and to students of the ch with 180 ECTS credits, as part rting' subjects). Should the num- es will be allocated to applicants a restricted number of places, the- son all courses of a module com- applicants who already have suc- given preferential consideration. A process group 1 (95%): Places will s purpose, applicants will be ran- all assessments taken during their (Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 tal number of ECTS credits already the same number of ECTS credits ters of the respective applicant; record 82105!-!-IHI2013				
Sacricion 5 with 1 major W	amematics	(2013)	catio	by lot. Should the	module be used only	in the Bachelor's degree subie	ect Biologie (Rio	logy) with 180 FCTS credits, pla-				
			ces w	ill be allocated acco	ording to the selection	n process of group 1.		ios, with too Eero creatis, pla-				

07-4S1N-	Neuro	urobiology 1												
V01-102-m01	ECTS	5	Duration	า	1 semester	Method of grading numerical grade	Modul level	undergraduate						
	Cours	es		P (no i	nformation on SWS	6 (weekly contact hours) and course language	available)							
	Metho	od of asse	ssment	methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami- nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course										
	other	prerequis	ites	Admis	sion prerequisite to	assessment: regular attendance of lab cours	e as specified at the b	eginning of the course.						
	Partici	pants an of places	d allo-	Numb follow dits. S Bache will be Bache of the ber of from the re will ponen cessfu waitin primar ked ac studie thema ding to to thei lated a the sa (5%): I achiev achiev among cation ces wi	er of places: 20. Sh s: Places will prima hould the module k lor's degree subject allocated to stude lor's degree subject application-oriente places available in he other quota. Sho be a uniform regula t that are concerne ally completed at lea g list will be mainta rily be allocated acco cording to the num s or of all module c tik (Mathematics)) o their average grad ir total number of Ed as the sum of these me ranking, places Places will be allocated red in modules/mov red, places will be allocated g applicants with th by lot. Should the ll be allocated acco	ould the number of applications exceed the n rily be allocated to students of the Bachelor's be used in other subjects, there will be two qu t Biologie (Biology) with 180 ECTS credits and nts of the Bachelor's degree subject Biologie ts Computational Mathematics and Mathemat d subject Biology (as well as potentially to stu- one quota exceed the number of applications build there be, within one module component, ation for the courses of one module component d will be allocated in a standardised procedur ast one other module component of the respe- ined and places re-allocated as they become cording to the application. This will be done as le weighted according to the number of ECTS of CTS credits achieved (quantitative ranking). Th two rankings, and places will be allocated ac will be allocated according to the qualitative ated according to the following quotas: Quota dule components of the Faculty of Biology; an allocated by lot. Quota 2 (25% of places): num e same number of subject semesters, places module be used only in the Bachelor's degree ording to the selection process of group 1.	umber of available pla degree subject Biolog totas: 95% of places w 5% of places (a minin (Biology) with 60 ECTS tik (Mathematics), eac udents of other 'import s, the remaining places several courses with a nt. In this case, places re. In this procedure, a ctive module will be g available. Selection p achievements. For this heir average grade of a d) (excluding Chemie ((s s follows: First, application cording to this third ra ranking or otherwise b 1 (50% of places): tot hong applicants with the ber of subject semest will be allocated by low subject Biologie (Biologie)	ices, places will be allocated as ie (Biology) with 180 ECTS cre- ill be allocated to students of the num of one participant in total) credits and to students of the h with 180 ECTS credits, as part ing' subjects). Should the num- s will be allocated to applicants restricted number of places, the- on all courses of a module com- pplicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- iking) and, secondly, according n in a third ranking will be calcu- inking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t. Quota 3 (25% of places): allo- logy) with 180 ECTS credits, pla-						

07-4S1N-	Inte	grative Beh	navioral B	liology	7	16							
VO2-102-m01	ECTS	S 5	Duration	า	1 semester	Method of gradir	g numerical grade	e	Modul level	undergraduate			
	Cou	rses		V + S	(no information on	SWS (weekly conta	ct hours) and cours	se language av	ailable)				
	Met	hod of asse	essment	methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami- nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes) per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course									
	othe	er prerequis	sites	Admis as sp	Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.								
	Part catio	icipants an on of place:	d allo- s	Numb follow dits. S Bache will b Bache of the ber of from t re will ponen cessfi waitir prima ked a studie thema ding t to the lated the sa (5%): achie achie amon catior ces w	per of places: 20. Sh ys: Places will prima Should the module elor's degree subject e allocated to stude elor's degree subject application-oriente places available in the other quota. Sh be a uniform regul nt that are concerne ully completed at le ng list will be mainta rily be allocated ac ccording to the nun es or of all module of atik (Mathematics)) o their average grad ir total number of E as the sum of these ame ranking, places Places will be alloc ved in modules/mo ved, places will be g applicants with th by lot. Should the ill be allocated accord	nould the number of arily be allocated to be used in other su ct Biologie (Biology ents of the Bachelo cts Computational <i>I</i> ed subject Biology in one quota exceed ould there be, with lation for the course ed will be allocated east one other mode ained and places re cording to the apple nber of ECTS credits components in the at the time of apple de weighted accord ECTS credits achieve e two rankings, and suil be allocated a cated according to to allocated by lot. Qu he same number of module be used on ording to the select	f applications excee students of the Ba bjects, there will be with 180 ECTS cree 's degree subject B Aathematics and M as well as potentia the number of appl n one module comp es of one module comp es of one module comp in a standardised p alle component of th -allocated as they h icants' previous aca they have achieve subject of Biologie ication. This will be ing to the number of ed (quantitative ran places will be alloc ccording to the qua he following quotas of the Faculty of Bio ota 2 (25% of place subject semesters, ally in the Bachelor's ion process of grou	ed the number ichelor's degre e two quotas: 9 dits and 5% of Biologie (Biologi lathematik (Mailly to students lications, the re ponent, severa omponent. In the procedure. In the respective in become availa ademic achieve d and their ave (Biology) (excle e done as follow of ECTS credits sking). The app cated accordin alitative rankin s: Quota 1 (50% ology; among a es): number of , places will be s degree subjeup 1.	r of available pl e subject Biolog 95% of places w places (a minin gy) with 60 ECTS athematics), each of other 'impor remaining place al courses with a his case, places his procedure, a nodule will be g ble. Selection p ements. For this erage grade of a uding Chemie ( ws: First, applic (qualitative ran olicants' position g to this third ran g or otherwise l % of places): tot pplicants with t subject semest a allocated by lo	aces, places will be allocated as gie (Biology) with 180 ECTS cre- <i>i</i> ill be allocated to students of the num of one participant in total) S credits and to students of the ch with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- s on all courses of a module com- applicants who already have suc- tiven preferential consideration. A process group 1 (95%): Places will s purpose, applicants will be ran- all assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 tal number of ECTS credits already the same number of ECTS credits ters of the respective applicant; t. Quota 3 (25% of places): allo- logy) with 180 ECTS credits, pla-			

07-4S1N-	Functio	onal Moi	phology	of arthropods							
V03-092-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)			
	Metho	d of asse	essment	term p	oaper (approx. 5 to 1	o pages)					
	other p	orerequis	sites	Admis as sp	ssion prerequisite to ecified at the beginn	assessment: regula aing of the course.	r attendance of exercises and su	uccessful comp	letion of the respective exercises		
	Partici	oants an of place	d allo- s	Numb follow dits. S Bache will bo Bache of the ber of from t re will poner cessfu waitir prima ked a studie thema ding t to the lated the sa (5%): achie amon catior ces w	ber of places: 20. Shows: Places will prima Should the module be elor's degree subject e allocated to studen elor's degree subject application-oriente places available in the other quota. Sho be a uniform regulant that are concerned ully completed at lean rily be allocated acco ccording to the num es or of all module co atik (Mathematics)) to their average grad ir total number of EC as the sum of these ame ranking, places Places will be allocated ved in modules/mod ved, places will be allocated of the sum of these and the sum of these ame ranking, places and the sum of these ame ranking, places and the sum of these ame ranking, places and the sum of these and the sum of these ame ranking, places and the sum of these ame ranking, places and the sum of these ame ranking, places	ould the number of a rily be allocated to st be used in other subject Biologie (Biology) we nts of the Bachelor's ts Computational Ma d subject Biology (as one quota exceed th build there be, within of ation for the courses d will be allocated in ast one other module ined and places re-a cording to the applicat ber of ECTS credits the omponents in the sub at the time of application (TS credits achieved two rankings, and pl will be allocated according to the allocated by lot. Quot e same number of sub module be used only rding to the selection	pplications exceed the number udents of the Bachelor's degree ects, there will be two quotas: 9 ith 180 ECTS credits and 5% of degree subject Biologie (Biolog thematics and Mathematik (Ma well as potentially to students e number of applications, the re- one module component, severa of one module component. In the a standardised procedure. In the component of the respective m llocated as they become availability previous academic achiever by have achieved and their aver bject of Biologie (Biology) (exclu- tion. This will be done as follow g to the number of ECTS credits (quantitative ranking). The appla aces will be allocated according ording to the qualitative ranking following quotas: Quota 1 (50% the Faculty of Biology; among ap a 2 (25% of places): number of s bject semesters, places will be in the Bachelor's degree subject n process of group 1.	of available plate subject Biolog places (a minim y) with 60 ECTS thematics), eac of other 'import emaining places l courses with a nis case, places nis procedure, a odule will be gi ple. Selection plate rage grade of a uding Chemie (( vs: First, application (qualitative ran icants' position g to this third ran g or otherwise b of places): tota plicants with the subject semest allocated by lot of Biologie (Biol	aces, places will be allocated as gie (Biology) with 180 ECTS cre- ill be allocated to students of the num of one participant in total) 5 credits and to students of the th with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- on all courses of a module com- pplicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- king) and, secondly, according n in a third ranking will be calcu- inking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t. Quota 3 (25% of places): allo- ogy) with 180 ECTS credits, pla-		

07-4S1M-	Basics in Light	- and Electi	lectron-Microscopy									
Z1-102-m01	ECTS 5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses	V	+ Ü (no information of	on SWS (weekly contact	hours) and course language av	ailable)						
	Method of asse	essment v	vritten examination (a	pprox. 30 to 60 minute	5)							
	other prerequis	sites A a	Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.									
	Participants an cation of place	id allo- s fr d E v b fr p c v k f f f t t d t t t t t t t t c c c c c c c c c	umber of places: 18. ollows: Places will pri its. Should the modu achelor's degree sub vill be allocated to stu achelor's degree sub f the application-orie er of places available om the other quota. Se will be a uniform reg onent that are concer essfully completed at vaiting list will be mai rimarily be allocated ed according to the n tudies or of all modul nematik (Mathematic ing to their average go their total number of ated as the sum of the ne same ranking, place 5%): Places will be all chieved in modules/n chieved, places will be mong applicants with ation by lot. Should the es will be allocated a	Should the number of a marily be allocated to s le be used in other subj ject Biologie (Biology) v idents of the Bachelor's jects Computational Ma nted subject Biology (as in one quota exceed the Should there be, within gulation for the courses and will be allocated in the least one other module ntained and places re-a according to the application in the time of application s) at the time of application f ECTS credits achieved ese two rankings, and p the same number of su- nodule components of the module be used only ccording to the selection	pplications exceed the number tudents of the Bachelor's degree ects, there will be two quotas: g vith 180 ECTS credits and 5% of degree subject Biologie (Biologie thematics and Mathematik (Ma s well as potentially to students is number of applications, the re- one module component, several of one module component, several of one module component. In the a standardised procedure. In the e component of the respective m llocated as they become availal ants' previous academic achieved hey have achieved and their avec bject of Biologie (Biology) (exclu- ation. This will be done as follow g to the number of ECTS credits (quantitative ranking). The app laces will be allocated according tording to the qualitative ranking e following quotas: Quota 1 (50% the Faculty of Biology; among al ca 2 (25% of places): number of abject semesters, places will be in the Bachelor's degree subject n process of group 1.	of available pla e subject Biolog 95% of places w places (a minin gy) with 60 ECTS of other 'impor emaining places il courses with a nis case, places nis procedure, a nodule will be g ble. Selection p ements. For this erage grade of a uding Chemie (( vs: First, applica (qualitative ran licants' position g to this third ra g or otherwise b 6 of places): tot pplicants with t subject semest allocated by lo ct Biologie (Biol	ces, places will be allocated as gie (Biology) with 180 ECTS cre- ill be allocated to students of the num of one participant in total) credits and to students of the h with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants restricted number of places, the- on all courses of a module com- pplicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- king) and, secondly, according n in a third ranking will be calcu- nking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t. Quota 3 (25% of places): allo- ogy) with 180 ECTS credits, pla-					

07-4S1M-	Analys	sis of Chi	omosom	omes									
Z2-102-m01	ECTS	5	Duration	l I	1 semester	Method of g	rading nu	merical grade		Modul level	undergraduate		
	Course	es		V + Ü	(no information o	n SWS (weekly o	ontact hou	rs) and course	language ava	ailable)			
	Metho	d of asse	essment	writte	en examination (a	oprox. 30 to 60	ninutes)						
	other	orerequis	sites	Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.									
	Partici cation	pants an of place	d allo- s	Numb follow dits. 3 Bach will b Bach of the ber o from re wil pone cessf waitin prima ked a studi them ding t to the lated the sa (5%): achie achie achie achie studi	ber of places: 18. S ber of places: 18. S vs: Places will prir Should the modul elor's degree subj e allocated to stu elor's degree subj e application-orier f places available the other quota. S Il be a uniform reg nt that are concer fully completed at ng list will be main arily be allocated at according to the nu es or of all module atik (Mathematics to their average gr eir total number of as the sum of the ame ranking, place ved in modules/n eved in modules/n to by lot. Should the vill be allocated ac	Should the num narily be allocat e be used in oth ect Biologie (Bio dents of the Bao ects Computatio ited subject Bio in one quota ex hould there be, ulation for the c ned will be allocated and place trained and place according to the unber of ECTS c e components in )) at the time of ade weighted a ECTS credits ac set wo rankings es will be allocated pocated accordin nodule compone e allocated by lo the same numb e module be us cording to the s	per of appli- ed to stude er subjects ilogy) with a helor's deg- inal Mather ogy (as wel- ceed the nu- within one burses of or ated in a st module cor es re-alloca application cording to hieved (qua- , and place ted accordi g to the foll ents of the I of. Quota 2 er of subje- ed only in t election pri-	cations exceed nts of the Bach , there will be to 180 ECTS credit ree subject Bio natics and Math Il as potentially imber of applica module compo- ne module co	the number relor's degree wo quotas: 9 is and 5% of p logie (Biolog hematik (Mat to students) ations, the re- ponent, several ponent, several ponent. In the respective m come availab emic achieve and their ave iology) (exclu- one as follow ECTS credits ng). The appl ted according tative ranking Quota 1 (50% gy; among ap : number of s laces will be legree subject 1.	of available pla e subject Biolog 5% of places w places (a minin y) with 60 ECTS thematics), eac of other 'impor emaining place l courses with a sis case, places is procedure, a odule will be g ple. Selection p ements. For this rage grade of a uding Chemie (( ys: First, applica (qualitative rar icants' position g to this third ra g or otherwise b of places): tot pplicants with t subject semest allocated by lo ct Biologie (Bio	aces, places will be allocated as gie (Biology) with 180 ECTS cre- vill be allocated to students of the num of one participant in total) credits and to students of the th with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- on all courses of a module com- applicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will be purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t. Quota 3 (25% of places): allo- logy) with 180 ECTS credits, pla-		

07-4S1M-	Speci	cial Bioinformatics 1										
Z6-102-m01	ECTS	5	Duratior	1	1 semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Cours	ses		V + Ü	(no information or	n SWS (weekly conta	ct hours) and course l	language available)				
	Meth	od of ass	essment	log (a Langı	pprox. 10 to 20 pa uage of assessmen	ges) ıt: German or English						
	other	prerequi	sites	Admi as sp	Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.							
	Partic	cipants ar	nd allo- IS	Numb follow dits. S Bache will b Bache of the ber of from t re will ponen cessfi waitir prima ked a studie thema ding t to the lated the sa (5%): achie achie achie achie studie	ber of places: 20. S vs: Places will prim Should the module elor's degree subje e allocated to stud elor's degree subje e application-orient f places available i the other quota. Sl l be a uniform regunt that are concern ully completed at l ng list will be main arily be allocated a ccording to the nu es or of all module atik (Mathematics) to their average gra eir total number of as the sum of thes ame ranking, place Places will be allo ved in modules/m ved, places will be n by lot. Should the ill be allocated ac	should the number of parily be allocated to be used in other su ect Biologie (Biology) lents of the Bachelor ects Computational A ted subject Biology ( n one quota exceed hould there be, within alation for the course hed will be allocated east one other modulation tained and places re ccording to the applit able of ECTS credits components in the se of the time of applit ade weighted accord ECTS credits achieves be two rankings, and es will be allocated a cated according to the odule components of e allocated by lot. Que the same number of e module be used or cording to the select	applications exceed students of the Bach bjects, there will be tw with 180 ECTS credit. 's degree subject Biol lathematics and Math as well as potentially the number of applica- n one module compo- s of one module compo- s of one module compo- s of one module compo- le component of the callocated as they bed cants' previous acade they have achieved as subject of Biologie (Bio cation. This will be do ing to the number of Biologie d (quantitative ranking places will be allocat cording to the qualit the following quotas: ( f the Faculty of Biologie to a 2 (25% of places) subject semesters, pl ly in the Bachelor's d on process of group a	the number of available elor's degree subject Biol wo quotas: 95% of places s and 5% of places (a mir logie (Biology) with 6o EC hematik (Mathematics), e to students of other 'imp ations, the remaining place nent, several courses wit ponent. In this case, place cedure. In this procedure respective module will be come available. Selection emic achievements. For the and their average grade o fology) (excluding Chemie one as follows: First, apple ECTS credits (qualitative r ng). The applicants' positi ed according to this third ative ranking or otherwise Quota 1 (50% of places): t gy; among applicants with : number of subject seme aces will be allocated by egree subject Biologie (B t.	places, places will be allocated as ogie (Biology) with 180 ECTS cre- will be allocated to students of the imum of one participant in total) TS credits and to students of the ach with 180 ECTS credits, as part orting' subjects). Should the num- es will be allocated to applicants a restricted number of places, the- es on all courses of a module com- , applicants who already have suc- given preferential consideration. A process group 1 (95%): Places will is purpose, applicants will be ran- all assessments taken during their (Chemistry), Physik (Physics), Ma- icants will be ranked, firstly, accor- anking) and, secondly, according on in a third ranking will be calcu- ranking. Among applicants with e by lot. Selection process group 2 otal number of ECTS credits already the same number of ECTS credits sters of the respective applicant; lot. Quota 3 (25% of places): allo- iology) with 180 ECTS credits, pla-			

07-4S1PS1-102-	Molecular modelling - From DNA to protein													
m01	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	e	Modul level	undergraduate					
	Course	es		V + Ü	(no information on S	SWS (weekly contact hours) and cours	se language ava	ailable)						
	Metho	d of asse	essment	comp	uterised practical ex	amination (approx. 6 hours)								
	other (	prerequis	sites	Admis as sp	Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.									
	Partici cation	pants an of place	d allo- s	Numb follow dits. S Bache will bo Bache of the ber of from t re will poner cessfu waitir prima ked a studie thema ding t to the lated the sa (5%): achie amon catior ces w	er of places: 18. Sho ys: Places will prima Should the module be elor's degree subject e allocated to stude elor's degree subject application-oriente places available in the other quota. Sho be a uniform regula not that are concerned ally completed at leas rily be allocated acco ccording to the num es or of all module c atik (Mathematics)) o their average grad ir total number of EC as the sum of these ame ranking, places Places will be allocated wed in modules/mod ved, places will be allocated y applicants with the by lot. Should the p ill be allocated acco	build the number of applications excert rily be allocated to students of the Ba be used in other subjects, there will be t Biologie (Biology) with 180 ECTS crea- nts of the Bachelor's degree subject E ts Computational Mathematics and M d subject Biology (as well as potentia one quota exceed the number of app puld there be, within one module com ation for the courses of one module cor d will be allocated in a standardised p ast one other module component of th ined and places re-allocated as they be cording to the applicants' previous act ber of ECTS credits they have achieve omponents in the subject of Biologie at the time of application. This will be le weighted according to the number of CTS credits achieved (quantitative ran two rankings, and places will be allocated will be allocated according to the qua- ated according to the following quotas dule components of the Faculty of Bio follocated by lot. Quota 2 (25% of place e same number of subject semesters, module be used only in the Bachelor's rding to the selection process of grou	ed the number achelor's degree e two quotas: 9 dits and 5% of Biologie (Biolog Aathematik (Ma ally to students lications, the re ponent, severa omponent. In the procedure. In the respective m become availal ademic achieve ed and their ave (Biology) (exclu- ed one as follow of ECTS credits nking). The applicated according alitative ranking s: Quota 1 (50% ology; among ap es): number of , places will be s degree subject up 1.	of available plate e subject Biolog p5% of places w places (a minin gy) with 60 ECTS thematics), eac of other 'import emaining places l courses with a nis case, places nis procedure, a nodule will be g ble. Selection p ements. For this erage grade of a uding Chemie (( vs: First, applica (qualitative ran licants' position g to this third ran g or otherwise b 6 of places): tot pplicants with t subject semest allocated by loo ct Biologie (Biol	ices, places will be allocated as gie (Biology) with 180 ECTS cre- ill be allocated to students of the num of one participant in total) c credits and to students of the h with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- on all courses of a module com- pplicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- king) and, secondly, according n in a third ranking will be calcu- inking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t. Quota 3 (25% of places): allo- ogy) with 180 ECTS credits, pla-					

07-4S1PS2-102-	Introd	uction to	Methods	in Plant Ecophysiology						
m01	ECTS	5	Duratior		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Cours	es		Ü + S (no information on SWS (weekly contact hours) and course language available)						
	Metho	od of asse	essment	log (approx. 10 to 20 pages)						
	other	prerequis	ites	Admission prerequisite to assessment: regular attendance of exercises and seminar as well as successful completion of the respective exercises as specified at the beginning of the course.						
	Partic cation	pants an of place:	d allo- s	Numb follow dits. S Bache of the ber of from t re will poner cessfi waitir prima ked a studie thema ding t to the lated the sa (5%): achie achie achie achie studie ces w	ber of places: 15. Sho vs: Places will prima Should the module be elor's degree subject e allocated to stude elor's degree subject application-oriente places available in the other quota. Sho l be a uniform regula not that are concerne ully completed at lea ng list will be mainta trily be allocated acco ccording to the num es or of all module c atik (Mathematics)) to their average grad iri total number of Ec as the sum of these ame ranking, places Places will be allocated actor y places will be allocated g applicants with the n by lot. Should the ill be allocated acco	buld the number of a rily be allocated to s be used in other sub t Biologie (Biology) w nts of the Bachelor's ts Computational Ma ed subject Biology (a one quota exceed th buld there be, within ation for the courses d will be allocated in ast one other module ined and places re-a cording to the applic ber of ECTS credits t omponents in the su at the time of applic le weighted accordin CTS credits achieved two rankings, and p will be allocated acc ated according to the allocated by lot. Quo e same number of si module be used only ording to the selectio	pplications exceed the number tudents of the Bachelor's degree jects, there will be two quotas: g with 180 ECTS credits and 5% of degree subject Biologie (Biologie athematics and Mathematik (Ma s well as potentially to students the number of applications, the re- one module component, several of one module component. In the a standardised procedure. In the e component of the respective m allocated as they become availal ants' previous academic achieved hey have achieved and their avec beject of Biologie (Biology) (exclu- ation. This will be done as follow g to the number of ECTS credits (quantitative ranking). The app laces will be allocated according cording to the qualitative ranking e following quotas: Quota 1 (50%) the Faculty of Biology; among al ta 2 (25% of places): number of ubject semesters, places will be y in the Bachelor's degree subject n process of group 1.	of available pla e subject Biolog p5% of places w places (a minin gy) with 60 ECTS thematics), eac of other 'impor emaining places il courses with a nis case, places nis procedure, a nodule will be g ble. Selection p ements. For this erage grade of a uding Chemie (( vs: First, applica (qualitative rar licants' position g to this third ra g or otherwise b 6 of places): tot pplicants with t subject semest allocated by lo ct Biologie (Biol	tees, places will be allocated as gie (Biology) with 180 ECTS cre- vill be allocated to students of the num of one participant in total) Scredits and to students of the ch with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- con all courses of a module com- applicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will s purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t. Quota 3 (25% of places): allo- logy) with 180 ECTS credits, pla-	

07-4S1PS3-102-	Pharmaceutical Drugs in Plants												
m01	ECTS 5	Duratio	n 19	semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		Ü + S (no	J + S (no information on SWS (weekly contact hours) and course language available)									
	Method of a	assessment	methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami- nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course										
	other prerec	quisites	Admissio respectiv	dmission prerequisite to assessment: regular attendance of exercises and seminar as well as successful completion of the espective exercises as specified at the beginning of the course.									
	Participants cation of pla	and allo- aces	Number follows: dits. Sho Bachelon will be al Bachelon of the ap ber of pla from the re will be ponent t cessfully waiting l primarily ked acco studies of thematik ding to th to their t lated as the same (5%): Pla achieved achieved achieved achieved achieved achieved action by ces will h	of places: 6. Show Places will prima ould the module b r's degree subject allocated to studer r's degree subject oplication-oriente aces available in e other quota. Sho e a uniform regula that are concerned y completed at lea list will be mainta y be allocated acco ording to the num or of all module co k (Mathematics)) their average grad total number of EC the sum of these e ranking, places aces will be allocated d in modules/mod d, places will be a applicants with the y lot. Should the r	uld the number of ap rily be allocated to st be used in other subj t Biologie (Biology) w nts of the Bachelor's ts Computational Ma d subject Biology (as one quota exceed th buld there be, within ation for the courses d will be allocated in ast one other module ined and places re-a cording to the applica- ber of ECTS credits th omponents in the su at the time of applica- le weighted accordin CTS credits achieved two rankings, and pl will be allocated according to the dule components of the allocated by lot. Quot e same number of su module be used only ording to the selection	plications exceed the numl udents of the Bachelor's de ects, there will be two quot ith 180 ECTS credits and 5% degree subject Biologie (Bi thematics and Mathematik well as potentially to stude e number of applications, t one module component, se of one module component. a standardised procedure. component of the respecti llocated as they become av ants' previous academic ach tey have achieved and thei bject of Biologie (Biology) ( titon. This will be done as for g to the number of ECTS cree (quantitative ranking). The aces will be allocated acco ording to the qualitative ran following quotas: Quota 1 the Faculty of Biology; amon a 2 (25% of places): number bject semesters, places wil in the Bachelor's degree su process of group 1.	ber of available pla egree subject Biolo as: 95% of places v % of places (a minir ology) with 60 ECTS (Mathematics), ea ents of other 'impor he remaining place veral courses with In this case, places In this procedure, a ve module will be g railable. Selection p nievements. For this r average grade of a excluding Chemie ( ollows: First, applic ratics (qualitative ran applicants' positio rding to this third ran hking or otherwise b (50% of places): to ng applicants with the er of subject semest Il be allocated by lo ubject Biologie (Bio	ces, places will be allocated as gie (Biology) with 180 ECTS cre- vill be allocated to students of the num of one participant in total) S credits and to students of the ch with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- s on all courses of a module com- applicants who already have suc- given preferential consideration. A process group 1 (95%): Places will s purpose, applicants will be ran- all assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- nking) and, secondly, according n in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 tal number of ECTS credits already the same number of ECTS credits ters of the respective applicant; it. Quota 3 (25% of places): allo- logy) with 180 ECTS credits, pla-					

07-S1-LP1-102-m01	Labora	atory practical course I									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S		P (no	P (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	methe nation per ca asses	methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami- nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course						
	other prerequisites Admission prerequisite to assessment: regular attendance of lab course as specified at the beginning of the course consult with academic advisory service in advance.										
07-S1-Ex1-102-m01	Excurs	Excursion I									
	ECTS	5	Duratio	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	s	<u>.</u>	E (no	information on SWS	(weekly contact hours) and course language availa	ıble)				
	Metho	d of ass	essment	metho nation per ca asses	thods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami- ion of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the sessment prior to the course						
	other p	orerequi	sites	Admi: sult w	ssion prerequisite to vith academic adviso	assessment: regular attendance of field trip as spe ory service in advance.	ecified at the be	ginning of the course; please con-			
07-S1-IP1-102-m01	Interdi	sciplina	ry Projec	tl							
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	s		R (no	information on SWS	(weekly contact hours) and course language availa	able)				
	Metho	d of ass	essment	metho nation per ca asses	methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exam nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes) per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course						
	other p	orerequi	sites	Admi: pleas	ssion prerequisite to e consult with acade	assessment: regular attendance of project sessior emic advisory service in advance.	ns as specified a	t the beginning of the course;			
07-5EP-102-m01	Extern	al Pract	ical Cours	e							
	ECTS	10	Duratio	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	5		P (no	information on SWS	(weekly contact hours) and course language availa	able)				
	Metho	d of ass	essment	metho nation per ca asses	methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami- nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course						
	other p	orerequi	sites	Admi: consu	ssion prerequisite to Ilt with academic ad	assessment: regular attendance of lab course as s visory service in advance.	pecified at the b	peginning of the course; please			

07-S2-EX2-102-	Excurs	ion II								
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es		E (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	metho	methods of assessment: a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral exami-					
				natio	nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes					
				asses	assessment prior to the course					
	other prerequisites			Admis sult w	ssion prerequisite to vith academic adviso	o assessment: regular attendance of field trip as spe ory service in advance.	cified at the be	ginning of the course; please con-		
07-S2-IP2-102-	Interdi	sciplina	ry Projec	t II			_			
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es		R (no	information on SWS	$\overline{\mathfrak{b}}$ (weekly contact hours) and course language availa	ble)			
	Method of assessment			metho	ods of assessment:	a) written examination (approx. 45 to 60 minutes) o	r b) log (approx.	10 to 20 pages) or c) oral exami-		
				natio	nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes) or d) procentation (approx. 20 minutes), students will be informed about the method and length of the					
				assessment prior to the course						
	other prerequisites			Admission prerequisite to assessment: regular attendance of project sessions as specified at the beginning of the course; please consult with academic advisory service in advance.						
07-S2-LP2-102-	Labora	tory Pra	ictical Co	urse II						
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es		P (no	P (no information on SWS (weekly contact hours) and course language available)					
	Metho	d of ass	essment	metho	ods of assessment:	a) written examination (approx. 45 to 60 minutes) o	r b) log (approx.	10 to 20 pages) or c) oral exami-		
				natio	nation of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes					
				asses	per candidate) or e) presentation (approx. 20 to 30 minutes); students will be informed about the method and length of the assessment prior to the course					
	other p	orerequi	sites	Admis consu	Admission prerequisite to assessment: regular attendance of lab course as specified at the beginning of the course; please consult with academic advisory service in advance.					

07-SQF-OSB-102-	Organisation and Safety in Biosciences									
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + S	(no information on S	SWS (weekly contact	hours) and course language av	vailable)			
	Method of a	issessment	a) wri	) written examination (30 to 60 minutes) and b) presentation (approx. 10 minutes) or term paper (approx. 5 to 10 pages)						
	Participants cation of pla	and allo- aces	Numb follow dits. S Bache will be Bache of the ber of from t re will poner cessfu waitir prima ked a studie thema ding t to the lated the sa (5%): achie amon catioe	ter of places: 15. Sho ys: Places will prima Should the module b elor's degree subject application-oriente places available in the other quota. Sho be a uniform regula to that are concerned ally completed at lea or that are concerned and that are conce	build the number of a rily be allocated to s be used in other sub t Biologie (Biology) w nts of the Bachelor's ts Computational Ma d subject Biology (a one quota exceed th ould there be, within ation for the courses d will be allocated in ast one other module ined and places re-a ording to the applic ber of ECTS credits to omponents in the su at the time of applic e weighted accordin CTS credits achieved two rankings, and p will be allocated according to the dule components of illocated by lot. Quo e same number of sp	pplications exceed the number tudents of the Bachelor's degre- jects, there will be two quotas: with 180 ECTS credits and 5% of degree subject Biologie (Biologiathematics and Mathematik (M s well as potentially to student: the number of applications, the one module component, sever of one module component, sever of one module component. In a standardised procedure. In a standardised procedure. In a standardised procedure in the provious academic achieves hey have achieved and their av ubject of Biologie (Biology) (exc ation. This will be done as follon g to the number of ECTS credit (quantitative ranking). The applicates will be allocated according to the qualitative ranking is the Faculty of Biology; among a ta 2 (25% of places): number of ubject semesters, places will be in the Bachelor's degree subjects and a subject semesters.	r of available pla es subject Biolog 95% of places w f places (a minin gy) with 60 ECTS athematics), eac s of other 'import remaining places al courses with a this case, places this procedure, a module will be g able. Selection p vements. For this verage grade of a luding Chemie (( ws: First, application s (qualitative ran plicants' position ng to this third ran g or otherwise b % of places): tot applicants with the f subject semest e allocated by log	apper (approx. 5 to 10 pages) aces, places will be allocated as gie (Biology) with 180 ECTS cre- will be allocated to students of the hum of one participant in total) acredits and to students of the th with 180 ECTS credits, as part ting' subjects). Should the num- s will be allocated to applicants a restricted number of places, the- on all courses of a module com- applicants who already have suc- iven preferential consideration. A rocess group 1 (95%): Places will purpose, applicants will be ran- ll assessments taken during their Chemistry), Physik (Physics), Ma- ants will be ranked, firstly, accor- thing) and, secondly, according in a third ranking will be calcu- anking. Among applicants with by lot. Selection process group 2 al number of ECTS credits already he same number of ECTS credits ers of the respective applicant; t. Quota 3 (25% of places): allo- logy) with 180 ECTS credits already		
			ces w	ill be allocated acco	rding to the selectio	n process of group 1.	ect biologie (biol	logy) with 180 ECTS credits, pla-		
Application-oriente	d Subject Ch	iemistry (40	ECTS o	redits)						
Application-oriente	d Subject Ch	emistry Cor	npulso	ry Courses (26 ECTS	credits)					
08-CM1-112-m01	Introduction	n to Inorgan	ic Chen	nistry for Students o	of Mathematics and	other Subjects				
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (no	information on SWS	(weekly contact hou	urs) and course language availa	able)			
	Method of a	issessment	writte	n examination (app	rox. 90 minutes)					

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08-0C1-092-m01	Organic Chem	ganic Chemistry 1									
	ECTS 5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of ass	sessment	a) 1 to	3 written examinat	ions (1 written examii	nation: approx. 90 minutes; 2	written examina	tions: 60 or 90 minutes each; 3			
			writte	written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examina-							
	othor proroqu	icitoc	Admission proroquicity to accoss ment, successful completion of eversions in the respective classes as specified at the basin								
		151105	ning o	ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually							
	Defermed to in		a max	inaximum of 2 incluents of unexcused absence).							
	Referred to in		9 62 (	3 62 (1) 2. Chemie Organische und Bioorganische Chemie							
08-PC1-092-m01		nistry 1						l un devene du ete			
	ECIS 8	Duratio	n Iv.ü	1 Semester	wethod of grading	numerical grade		undergraduate			
	Courses		v + 0		ion on SWS (weekly (	contact nours) and course lang	guage available)	tione (e erec minutes coch e			
	Method of ass			vritten examinations: 60 of 90 minutes each; 3 vritten examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examina- ion in groups (groups of 2, approx. 30 minutes)							
	other prerequ	isites	Admis ning o a max	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							
11-EFNF-072-m01	Introduction t	o Physics	for Stu	dents of Non-physic	cs-related Minor Sub	jects					
	ECTS 7	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + V	V + V (no information on SWS (weekly contact hours) and course language available)							
	Method of ass	sessment	writte	written examination (approx. 120 minutes)							
	Participants a cation of place	nd allo- es	Only a	Inly as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.							
Application-oriente	ed Subject Chei	misty Com	pulsor	y Electives (14 ECTS	credits)						
08-0C2-102-m01	Organic Chem	istry 2									
	ECTS 9	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + V -	+ Ü (no information	on SWS (weekly cont	act hours) and course languag	ge available)	·			
	Method of ass	sessment	a) 1 to	3 written examinati	ions (1 written examii	nation: approx. 90 minutes; 2	written examina	tions: approx. 60 or 90 minutes			
			each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English								
	Modules succ completed	essfully	08-00	1							
	other prerequ	isites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).								

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08-PC3-092-m01	Physical and T	heoretica	l Chem	nistry 3: Symmetry	and Quantum Chemis	stry				
	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	+ V + Ü (no informa	ation on SWS (weekly	contact hours) and course lang	guage available)			
	Method of ass	essment	a) 1 to exami group	<ul> <li>1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</li> </ul>						
	other prerequi	sites	Admis ning c a max	dmission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ing of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually maximum of 2 incidents of unexcused absence).						
08-TC-092-m01	Theoretical Mo	odels in C	hemist	ry						
	ECTS 3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language a	vailable)			
	Method of ass	essment	a) 1 tc each; c) ora	) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes ach; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or ) oral examination in groups (groups of 2, approx. 30 minutes)						
	other prerequi	sites	Admis ning c a max	ssion prerequisite of the course (usua imum of 2 inciden	to assessment: succes Ily 70% of exercises to ts of unexcused abser	ssful completion of exercises in b be successfully completed) a nce).	n the respective s well as regular	classes as specified r attendance of exerc	at the begin- ises (usually	
Application-oriente	ed Subject Geog	raphy (40	<b>ECTS</b>	credits)						
Application-oriente	ed Subject Geog	raphy - B	asics o	of the Scientific Dis	cipline (10 ECTS credi	ts)				
09-HG1SI-102-m01	Introduction to	the Geo	graphy	of Cities, Towns a	nd Villages					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + T (	(no information on	SWS (weekly contact	hours) and course language av	/ailable)			
	Method of ass	essment	writte	written examination (approx. 45 minutes)						
	Referred to in I	LPO I	§ 47 ( § 66 (	§ 47 (1) 1. Geographie Humangeographie § 66 (1) 1. Geographie Humangeographie						
09-HG1WI-102-	Introduction to	o Econom	ic Geoទួ	graphy						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + T (	(no information on	SWS (weekly contact	hours) and course language av	/ailable)			
	Method of ass	essment	writte	n examination (ap	prox. 45 minutes)					
	Referred to in I	LPO I	§ 47 ( § 66 (	1) 1. Geographie Hi 1) 1. Geographie H	umangeographie umangeographie					
09-HG1SO-102-	Introduction to	o Social a	nd Pop	ulation Geography	/					
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + T (	(no information on	SWS (weekly contact	hours) and course language av	/ailable)			
	Method of ass	essment	writte	n examination (ap	prox. 45 minutes)					
	Referred to in I	LPO I	§ 47 ( § 66 (	1) 1. Geographie Hi 1) 1. Geographie H	umangeographie umangeographie					
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09-PG1ExD-102-	Genera	l Physic	cal Geogr	aphy 1	(Earth System: Exo	geneous Dynamics -	Geomorphology)				
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + T	/ + T (no information on SWS (weekly contact hours) and course language available)						
	Method	l of ass	essment	writte	written examination (approx. 45 minutes)						
	Referre	d to in l	PO I	§ 47 (	3 47 (1) 1. Geographie Physiogeographie						
				§66	3 66 (1) 1. Geographie Physiogeographie						
09-PG1KS-102-	Genera	l Physic	cal Geogr	aphy 2	2 (Earth System: Clin	nate System)					
moi	ECTS 5 Duratio			n	1 semester         Method of grading         numerical grade         Modul level         undergraduate						
	Course	S		V + T	+ T (no information on SWS (weekly contact hours) and course language available)						
	Method	l of ass	essment	writte	en examination (app	rox. 45 minutes)					
	Referred to in LPO I			§ 47 ( § 66	47 (1) 1. Geographie Physiogeographie 66 (1) 1. Geographie Physiogeographie						
09-PG1En-	Genera	l Physic	cal Geogr	aphy 3	(Earth System: End	ogenic Dynamics)					
D-102-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + T	T (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			writte	en examination (app	rox. 45 minutes)					
	Referred to in LPO I		§ 47 (	(1) 1. Geographie Phy	/siogeographie						
				§ 66	(1) 1. Geographie Phy	ysiogeographie					
Application-oriente	ed Subje	ct Geog	raphy - S	pecial	Topics (10 ECTS cre	dits)					
09-KART1-102-m01	Cartog	raphy 1									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + T	/ + T (no information on SWS (weekly contact hours) and course language available)						
	Methoo	l of ass	essment	written examination (approx. 75 minutes) and practice work (approx. 30 hours for creating approx. 3 maps or diagrams); weighted 1:1							
	Referre	d to in l	PO I	§ 66	§ 66 (1) 2. Geographie Methoden der Geographie						
09-FERN1-102-m01	Remote	e Sensiı	ng 1								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + T	(no information on S	SWS (weekly contact	hours) and course language	ge available)			
	Method	l of ass	essment	writte	en examination (app	rox. 45 minutes)					
	Referre	d to in l	POI	§ 66	(1) 2. Geographie Me	ethoden der Geograp	hie				
09-FERN2-102-m01	Remote	e Sensiı	1g 2								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + T	(no information on S	SWS (weekly contact	hours) and course language	ge available)			
	Method	l of ass	essment	writte	en examination (app	rox. 45 minutes)					

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09-HG2T1-102-	Special Issue	es of Huma	an Geography 1							
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	•	S (no	S (no information on SWS (weekly contact hours) and course language available)						
	Method of as	sessment	prese	presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1						
09-HG2T2-102-	Special Issue	es of Huma	n Geog	Geography 2						
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	δ (weekly contact hou	rs) and course language availa	ble)			
	Method of as	sessment	prese	ntation (approx. 30	minutes) with writter	elaboration (approx. 20 pages	), weighted 1:1			
09-MT2-082-m01	Theories and	Methodol	ogy in	Human Geography						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	(no information on SWS (weekly contact hours) and course language available)						
	Method of as	sessment	writte	ritten examination (45 minutes) and presentation (approx. 20 minutes), weighted 1:1						
	Referred to ir	I LPO I	§ 66 (	(1) 2. Geographie Me	ethoden der Geograp	hie				
09-MT4-102-m01	Quantitative	and Qualit	ative R	tive Regional Analysis						
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		This r	<ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o9-MT4-1-102: S (no information on SWS (weekly contact hours) and course language available)</li> <li>o9-MT4-2-102: S (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of as	sessment	Asses stated Asses Asses	ssment in this modu d otherwise, succes <b>ssment in module co</b> 5 ECTS, Method of presentation (app <b>ssment in module co</b> 5 ECTS, Method of a) presentation (ap tations (10 minute	Ile comprises the ass sful completion of the <b>omponent og-MT4-1-</b> grading: numerical g rox. 30 minutes) with <b>omponent og-MT4-2-</b> grading: numerical g oprox. 30 minutes) w s each) and one port	essments in the individual mode e module will require successfu ro2: Quantitative Regional Anal rade written elaboration (approx. 20 102: Qualitative Regional Analy rade ith written elaboration (approx. folio (including approx. 5 logs o	lule component l completion of ysis pages), weigh sis 20 pages), we f practical exer	ts as specified below. Unless all individual assessments. ted 1:1 ighted 1:1 or b) 2 short presen- cises as well as approx. 3 exer-		
	Referred to ir	LPO I	§ 66 (	(1) 2. Geographie Me	1:2 ethoden der Geograp	hie				

09-MT6-102-m01	Methods of Pla	Methods of Planning in Human Geography										
	ECTS 10	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		This module comprises • 09-MT6-1-082: S • 09-MT6-2-102: S	2 module components (no information on SW (no information on SW	. Information on courses will b 'S (weekly contact hours) and o S (weekly contact hours) and o	be listed separate course language course language	ely for each module component. available) available)					
	Method of ass	essment	Assessment in this moo stated otherwise, succe	ssessment in this module comprises the assessments in the individual module components as specified below. Unl tated otherwise, successful completion of the module will require successful completion of all individual assessmen								
			<ul> <li>Assessment in module component og-MT6-1-082: Methods of Planning in Human Geography 1         <ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>a) presentation (approx. 25 minutes) with written elaboration (approx. 12 pages), weighted 1:1 or b) term paper (approx. 20 pages) or c) several small assessments (total length/expenditure of time comparable to a) and/or b)), weighted 1:1</li> </ul> </li> <li>Assessment in module component og-MT6-2-102: Planning Methods in Human Geography 2</li> </ul>									
			<ul> <li>5 ECTS, Method (</li> <li>a) presentation (</li> <li>or c) several small</li> </ul>	<ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>a) presentation (approx. 25 minutes) with written elaboration (approx. 12 pages) or b) term paper (approx. 20 pages) or c) several small assessments (total length/expenditure of time comparable to a) and/or b))</li> </ul>								
09-HG3-102-m01	Applied Human Geography											
	ECTS 10	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		This module comprises • 09-HG3-1-082: S • 09-HG3-2-102: S	<ul> <li>og-HG3-2-102: S (no information on SWS (weekly contact hours) and course language available)</li> <li>og-HG3-2-102: S (no information on SWS (weekly contact hours) and course language available)</li> </ul>								
	Method of ass	essment	<ul> <li>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</li> <li>Assessment in module component og-HG3-1-o82: Project-oriented Seminar 1 for Applied Human Geography         <ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1</li> </ul> </li> <li>Assessment in module component og-HG3-2-102: Project-oriented Seminar 2 for Applied Human Geography         <ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1</li> </ul> </li> </ul>									
	Modules succe completed	essfully	09-HG1 and 09-MT2 and	d o9-MT4 and o9-STAT-	1 and 09-KART-1 and either 09	-STAT-2 or 09-KA	RT-2					
09-PG2T1-102-m01	Special Proble	ms of Phy	ysical Geography 1									
	ECTS 5	Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V (no information on SV	VS (weekly contact hou	rs) and course language availa	able)						
	Method of ass	essment	written examination (ap	prox. 45 minutes)								
09-PG2T2-102-	Special Proble	ms of Phy	ysical Geography 2									
m01	ECTS 5	Duration	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		S (no information on SV	VS (weekly contact hou	rs) and course language availa	able)						
	Method of ass	essment	presentation (approx. 3	o minutes) with written	elaboration (approx. 20 page	s), weighted 1:1						
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09-MT1-102-m01	Data Acq	Acquisition and Processing in Physical Geography										
	ECTS 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			S (no	S (no information on SWS (weekly contact hours) and course language available)							
	Method o	ofasse	ssment	prese	ntation (approx. 15 r	ninutes) with written	elaboration (15 pages), weight	ed 1:1				
09-MT3-082-m01	Working	Metho	ds: Solic	Earth System								
	ECTS 1	.0	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			This r •	<ul> <li>Inis module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o9-MT3-1-082: S (no information on SWS (weekly contact hours) and course language available)</li> <li>o9-MT3-2-082: Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul>							
	Method o	of asse	essment	Asses stated	ssment in this modul d otherwise, success	le comprises the asso ful completion of the	essments in the individual mod module will require successfu	lule component l completion of	s as specified below. Unless all individual assessments.			
				<ul> <li>Assessment in module component 09-M13-1-082: Mineral and Rock Identification</li> <li>5 ECTS, Method of grading: numerical grade</li> <li>written or oral examination of one candidate each (30 minutes each)</li> <li>Assessment in module component 09-MT3-2-082: Geological Maps and Structures</li> <li>5 ECTS, Method of grading: numerical grade</li> </ul>								
				•	written or oral exan	nination of one cand	date each (approx. 30 minutes	each) or term p	oaper (approx. 20 pages)			
	Referred	to in L	POI	§ 66 (	(1) 2. Geographie Me	thoden der Geograph	nie					
09-MT5-102-m01	Working	Metho	ds of Ph	ysical Geography								
	ECTS 1	CTS 10 Duratior		1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			<ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o9-MT5-1-082: P (no information on SWS (weekly contact hours) and course language available)</li> <li>o9-MT5-2-102: S (no information on SWS (weekly contact hours) and course language available)</li> </ul>								
	Method o	of asse	essment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.								
				<ul> <li>Assessment in module component og-MT5-1-082: Introduction to physiogeographical Fieldwork Skills, Field Mapping and Measuring         <ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 15 pages)</li> </ul> </li> <li>Assessment in module component og-MT5-2-102: Data management, -analysis and -interpretation         <ul> <li>5 ECTS, Method of grading: numerical grade</li> </ul> </li> </ul>								
				•	presentation of pro	ject (approx. 30 min	utes) with written elaboration (a	approx. 20 page	es)			

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09-PG3-102-m01	Applie	d Physi	cal Geogra	aphy	phy								
	ECTS	10	Duration	1	1 semester	Method of grading n	umerical grade	Modul level	undergraduate				
	Course	!S		This n •	<ul> <li>inis module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o9-PG3-1-082: S (no information on SWS (weekly contact hours) and course language available)</li> <li>o9-PG3-2-102: S (no information on SWS (weekly contact hours) and course language available)</li> </ul>								
	Metho	d of ass	essment	Asses stated	sment in this modu I otherwise, success	le comprises the assess oful completion of the m	sments in the individual mod nodule will require successful	ule component l completion of	s as specified below. Unless all individual assessments.				
				<ul> <li>Assessment in module component og-PG3-1-082: Project Seminar: Establishing Current Status and Data Acquisition         <ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>presentation (30 minutes) with written elaboration (20 pages), weighted 1:1</li> </ul> </li> <li>Assessment in module component og-PG3-2-102: Project Seminar: Data Evaluation, Data Visualisation and Presentation         <ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>project report (approx. 20 pages)</li> </ul> </li> </ul>									
Application-oriente	ed Subje	Subject Computer Science (40 ECTS credits)											
10-I-ADS-102-m01	Algorit	hm and	data stru	ctures	tures								
	ECTS	10	Duration	1	1 semester	Method of grading n	umerical grade	Modul level	undergraduate				
	Course	S		V + Ü	/ + U (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of ass	essment	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.									
	other prerequisites			Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).									
	Referre	ed to in l	LPO I	§ 49 ( § 69 (	1) 1. a) Informatik Th 1) 1. a) Informatik Th	eoretische Informatik, eoretische Informatik,	Algorithmen und Datenstrukt Algorithmen und Datenstrukt	turen turen					
10-I-AGT-122-m01	Algorit	hmic G	raph Theo	ry									
	ECTS	5	Duration	1	1 semester	Method of grading n	umerical grade	Modul level	undergraduate				
	Course	S		V + Ü	(no information on S	SWS (weekly contact ho	ours) and course language ava	ailable)					
	Metho	d of ass	essment	writte writte didate	n examination (appl n examination can b e each: 15 minutes, ;	rox. 50 to 60 minutes); be replaced by an oral e groups of 2: 20 minutes	if announced by the lecturer l xamination of one candidate s, groups of 3: 25 minutes)	by four weeks p each or an ora	prior to the examination date, the l examination in groups (one can-				
	a the a cross		-:	Langu	age of assessment:	English, German if agre	eed upon with the examiner						
	other p	rerequi	sites	wnere	e applicable, prereq	uisites as specified by t	the lecturer at the beginning of	or the course (e	. g. completion of exercises).				

10-I-AR-102-m01	Autom	ation an	d Control	Techn								
	ECTS	8	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			writte writte 90 mi (appro Langu	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. Language of assessment: German, English if agreed upon with the examiner							
	other	prerequi	sites	Admis cours	ssion prerequisite to e).	assessment: exercis	ses (type and scope to be annot	unced by the lea	cturer at the beginning of the			
10-I-KT-102-m01	Theory	y of Com	plexity									
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V + Ü	) (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can- didate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner								
	other prerequisites			Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).								
10-I-DB-102-m01	Datab	ases										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)				
	Method of assessment		written examination (approx. 50 to 60 minutes) if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minu- tes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner									
	other	prerequi	sites	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).								
	Referr	ed to in l	PO I	§ 49 ( § 69 (	1) 1. b) Datenbanksy 1) 1. b) Datenbanksy	/steme und Software /steme und Software	technologie technologie					

10-l-lÜ-102-m01	Information Tr	ansmissi	on							
	ECTS 10	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses	_	V + Ü	(no information on	SWS (weekly contact hours) and course languag	ge available)				
	Method of ass	essment	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.							
	other prerequi	sites	Admi: cours	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
	Referred to in I	_PO I	§ 69 (	(1) 1. c) Informatik Te	echnische Informatik					
10-I-LOG-102-m01	Logic for inform	matics				<u>.</u>				
	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact hours) and course languag	ge available)				
	Method of ass	essment	writte writte didate	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)						
	other prerequi	sites	Admi: cours	ssion prerequisite to e).	o assessment: exercises (type and scope to be a	announced by the le	ecturer at the beginning of the			
10-I-00P-102-m01	Object-oriented Programming									
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on	SWS (weekly contact hours) and course languag	ge available)				
	Method of ass	essment	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one can- didate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner							
	other prerequisites		Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).							
10-I-PP-102-m01	Practical Cours	se in Prog	rammi	ng						
	ECTS 10	Duratio	n	1 semester	Method of grading (not) successfully comple	ted Modul level	undergraduate			
	Courses		P (no	information on SWS	5 (weekly contact hours) and course language av	/ailable)				
	Method of assessment		written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.							
	other prerequi	sites	Admi: cours	ssion prerequisite to e).	o assessment: exercises (type and scope to be a	announced by the le	ecturer at the beginning of the			
	Additional Info	ormation	Addit	ional information or	n module duration: 1 to 2 semesters.					
	Referred to in I	PO I	§ 49 ( § 69 (	1) 1. c) Informatik Pi 1) 1. d) Informatik P	raktische Softwareentwicklung raktische Softwareentwicklung					

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10-I-RAK-102-m01	Compu	ter Arch	itecture								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)			
	Methoo	d of asse	essment	writte writte didate Langu	written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner						
	other p	rerequis	sites	Admis cours	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
	Referre	d to in L	.PO I	§69 (	1) 1. c) Informatik Te	chnische Informatik					
10-I-RAL-102-m01	Digital	comput	er systen	ıs							
	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)			
	Method of assessment			written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.							
	other p	other prerequisites			Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).						
	Referre	d to in L	.PO I	§ 69 (1) 1. c) Informatik Technische Informatik							
10-I-RK-102-m01	Compu	ter Netv	vorks and	Comn	nunication Systems						
	ECTS	8	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)			
	Method of assessment			written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. Language of assessment: German, English if agreed upon with the examiner							
	other p	rerequis	sites	Admis cours	ssion prerequisite to e).	assessment: exerci	ses (type and scope to be annot	unced by the lea	cturer at the beginning of the		

10-l-ST-102-m01	Software Technology										
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of asse	essment	writte	written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the						
				90 mi	90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each. a 30 minute						
				(appr	ox.) oral examinatio	n in groups of 2 and a	a 40 minute (approx.) oral exam	ination in grou	ps of 3.		
	other p	orerequis	sites	Admis cours	ssion prerequisite to e).	cturer at the beginning of the					
	Referred to in LPO I			§ 49 ( § 69 (	1) 1. b) Datenbanksy 1) 1. b) Datenbanksy	/steme und Software /steme und Software	technologie technologie				
10-I-SWP-102-m01	Practic	al cours	e in softv	vare	are						
	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			P (no	information on SWS	(weekly contact hou	rs) and course language availal	ole)			
	Method of assessment			comp	letion of project ass	ignments, presentati	on				
	Referred to in LPO I			§ 49 (1) 1. c) Informatik Praktische Softwareentwicklung § 69 (1) 1. d) Informatik Praktische Softwareentwicklung							
10-I-TI-102-m01	Theore	tical inf	ormatics								
	ECTS	10	Duratio	<u>1</u>	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment		written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.								
	other prerequisites			Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).							
	Referre	ed to in L	PO I	§ 49 ( § 69 (	(1) 1. a) Informatik Th (1) 1. a) Informatik Th	neoretische Informati neoretische Informati	k, Algorithmen und Datenstrukt k, Algorithmen und Datenstrukt	uren			

Application-orient	ed Subject Philosophy (4	o ECTS credits)						
Application-orient	ed Subject Philosophy C	ompulsory Courses (20 ECTS credits)						
06-B-P1-122-m01	Principles of Philosoph	y .						
	ECTS 10 Duratio	n 1 semester Method of grading numerical grade Modul level undergraduate						
	Courses	<ul> <li>This module comprises 3 module components. Information on courses will be listed separately for each module component.</li> <li>o6-B-P1-1-122: Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>o6-B-P1-2-122: S (no information on SWS (weekly contact hours) and course language available)</li> <li>o6-B-P1-3-122: V + S (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment	<ul> <li>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</li> <li>Assessment in module component o6-B-P1-1-122: Introduction to academic working techniques <ul> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>1 small written assessment (approx. 1 page) and/or 1 oral assessment (approx. 5 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of exercises (a maximum of 2 incidents of unexcused absence).</li> </ul> </li> <li>Assessment in module component o6-B-P1-2-122: Introduction to formal logic <ul> <li>3 ECTS, Method of grading: (not) successfully completed</li> <li>written examination (approx. 90 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).</li> </ul> </li> <li>Assessment in module component o6-B-P1-3-122: Principles of Philosophy: historical epochs, main works, authors Principles of Philosophy: historical epochs, main works, authors Principles</li> </ul>						
	other prerequisites	<ul> <li>5 ECTS, Method of grading: numerical grade</li> <li>oral examination (approx. 25 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).</li> <li>By way of exception, additional prerequisites are listed in the section on assessments.</li> </ul>						

06-B-P2-102-m01	Philosophy and	Philosophy and the sciences											
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses	-	This n	nodule comprises 2 06-B-P2-1-102: V 06-B-P2-2-102: V	2 module components + S (no information on + S (no information or	. Information on cours SWS (weekly contact SWS (weekly contact	es will be listed separat hours) and course lang hours) and course lang	tely for each module component. uage available) uage available)					
	Method of asse	essment	Asses stated	ssment in this mod d otherwise, succes	ule comprises the ass ssful completion of the	essments in the indivi e module will require s	dual module componen successful completion o	ts as specified below. Unless f all individual assessments.					
			Asses arts a •	<ul> <li>Assessment in module component o6-B-P2-1-102: Philosophical principles of arts and humanities Philosophical principles of arts and humanities</li> <li>5 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 90 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).</li> <li>Assessment in module component o6-B-P2-2-102: Philosophical principles of natural sciences and technology Philosophical principles of natural sciences and technology</li> <li>5 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 90 minutes)</li> <li>Other prerequisites: Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).</li> </ul>									
			Asses princi										
	other prerequis	sites	By wa	y of exception, add	ditional prerequisites a	are listed in the section	n on assessments.						
	Participants an cation of place	ıd allo- s	Only a seme	as part of pool of ge sters. Among appli	eneral key skills (ASQ) cants with the same n	: max. 20 places. Plac umber of subject seme	es will be allocated acc esters, places will be all	ording to the number of subject located by lot.					
Application-oriente	ed Subject Philo	sophy Co	mpuls	ory Electives (10 EC	CTS credits)								
06-B-P3-122-m01	Theoretical Phi	ilosophy											
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses	-)	V + S	+ S (no information	n on SWS (weekly cont	act hours) and course	language available)						
	Method of asse	essment	oral e	oral examination (approx. 25 minutes) in one of the seminars (seminar to be selected by students)									
	other prerequis	sites	Admis	Admission prerequisite to assessment: regular attendance of seminars (a maximum of 2 incidents of unexcused absence).									
06-B-P4-122-m01	Practical Philo	sophy											
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V + S	+ S (no informatior	n on SWS (weekly cont	act hours) and course	language available)						
	Method of asse	essment	writte	n examination (app	prox. 120 minutes) in (	one of the seminars (se	eminar to be selected by	y students)					
	other prerequis	sites	Admis	ssion prerequisite I	to assessment: regula	r attendance of semina	ars (a maximum of 2 inc	idents of unexcused absence).					
06-B-P5-122-m01	History of Phile	osophy											
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses		V + S	+ S (no informatior	n on SWS (weekly cont	act hours) and course	language available)						
	Method of asse	essment	writte	n examination (app	prox. 120 minutes) in (	one of the seminars (se	eminar to be selected b	y students)					
	other prerequis	sites	Admi	ssion prerequisite I	to assessment: regula	r attendance of semina	ars (a maximum of 2 inc	idents of unexcused absence).					
	·		·										
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06-B-P6-122-m01	Issues of resea	arch in ph	ilosop	hy						
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + S	V + S + S (no information on SWS (weekly contact hours) and course language available)						
	Method of asse	essment	oral examination (approx. 25 minutes) in one of the seminars (seminar to be selected by students)							
	other prerequis	sites	Admission prerequisite to assessment: regular attendance of seminars (a maximum of 2 incidents of unexcused absence).							
06-B-W1-122-m01	Text Analysis:	Ancient F	hiloso	phy						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact hour	rs) and course language availa	ble)			
	Method of asse	essment	writte	written examination (approx. 120 minutes) or term paper (approx. 12 pages)						
	other prerequis	sites	Admis	ssion prerequisite to	assessment: regular	attendance of seminar (a max	imum of 2 incid	lents of unexcused absence).		
06-B-W2-122-m01	Text Analysis: Medieval Philosophy									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact hour	rs) and course language availa	ble)			
	Method of asse	essment	writte	n examination (appr	ox. 120 minutes) or te	erm paper (approx. 12 pages)				
	other prerequis	sites	Admis	dmission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).						
06-B-W3-122-m01	mo1 Text Analysis: Modern Philosophy									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact hour	rs) and course language availa	ble)	_		
	Method of asse	essment	writte	n examination (appr	ox. 120 minutes)					
	other prerequis	sites	Admis	Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).						
06-B-W4-122-m01	Text Analysis:	Contemp	orary F	Philosophy						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no information on SWS (weekly contact hours) and course language available)							
	Method of asse	essment	written examination (approx. 120 minutes)							
	other prerequis	sites	Admis	ssion prerequisite to	assessment: regular	attendance of seminar (a max	imum of 2 incid	lents of unexcused absence).		
06-B-W5-122-m01	Basic disciplin	es of the	oretica	l philosophy						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact hour	rs) and course language availa	ble)			
	Method of asse	essment	term	oaper (approx. 12 pa	ges)					
	other prerequis	sites	Admis	ssion prerequisite to	assessment: regular	attendance of seminar (a max	imum of 2 incid	lents of unexcused absence).		
06-B-W6-122-m01	Specific discip	lines of t	heoreti	cal philosophy						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		S (no	information on SWS	(weekly contact hour	rs) and course language availa	ble)			
	Method of asse	essment	term	oaper (approx. 12 pa	ges) or oral examinat	ion (approx. 25 minutes)				
	other prerequis	sites	Admis	ssion prerequisite to	assessment: regular	attendance of seminar (a max	imum of 2 incid	lents of unexcused absence).		

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06-B-W7-122-m01	Basic discip	olines of pra	ctical p	hilosophy						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	(weekly contact hours) and course language ava	ilable)				
	Method of a	assessment	term p	oaper (approx. 12 pa	ges) or oral examination (approx. 25 minutes)					
	other prerec	other prerequisites Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).								
06-B-W8-122-m01	Specific dis	ciplines of p	ractica	ll philosophy						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses S (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment term paper (approx. 12 pages) or oral examination (approx. 25 minutes)									
	other prerequisites Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absence).									
06-B-W9-122-m01	Problems of Older Philosophy									
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses S (no information on SWS (weekly contact hours) and course language available)									
	Method of assessment term paper (approx. 12 pages)									
	other prerequisites Admission prerequisite to assessment: regular attendance of seminar (a maximum of 2 incidents of unexcused absenc									
06-B-W10-122-m01	Problems of	f Modern Ph	ilosopl	ıy						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	(weekly contact hours) and course language available	ilable)				
	Method of a	assessment	term p	oaper (approx. 12 pa	ges)					
	other prerec	quisites	Admis	ssion prerequisite to	assessment: regular attendance of seminar (a m	aximum of 2 inci	dents of unexcused absence).			
06-B-W11-122-m01	Problems of	f Theoretica	Philos	sophy						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	(weekly contact hours) and course language available	ilable)				
	Method of a	assessment	term p	paper (approx. 12 pa	ges)					
	other prerec	quisites	Admis	ssion prerequisite to	assessment: regular attendance of seminar (a m	aximum of 2 inci	dents of unexcused absence).			
06-B-W12-122-m01	Problems of	f Practical P	hilosop	phy						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		S (no	information on SWS	(weekly contact hours) and course language available	ilable)				
	Method of a	assessment	term p	oaper (approx. 12 pa	ges)					
	other prerec	quisites	Admis	ssion prerequisite to	assessment: regular attendance of seminar (a m	aximum of 2 incid	dents of unexcused absence).			

Application-oriented Subject Physics (40 ECTS credits)										
Application-orient	ed Subject Phys	ics Comp	ulsory	Electives 1: Basics	s (16 ECTS credits)					
11-ENNF1-062-m01	Introduction to	o Physics	Part 1 f	for students of Ph	ysics Related Minor	Subjects				
	ECTS 7	Duration	1	1 semester	Method of gradin	g numerical grade		Modul level	undergraduate	
	Courses		V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of ass	essment	writte	written examination (approx. 120 minutes)						
	Participants ar cation of place	nd allo- es	Only a	as part of pool of g	general key skills (AS	Q): 20 places. Places v	will be alloc	ated by lot.		
11-ENNF2-062-m01	Introduction to	o Physics	Part 2	for students of Ph	ysics Related Minor	Subjects				
	ECTS 7 Duration		1	1 semester	Method of gradin	g numerical grade		Modul level	undergraduate	
	Courses		V + Ü	(no information o	n SWS (weekly conta	ct hours) and course la	anguage av	ailable)		
	Method of ass	essment	writte	n examination (ap	prox. 120 minutes)					
	Participants ar cation of place	nd allo- es	Only a	as part of pool of g	general key skills (AS	Q): 20 places. Places v	will be alloc	ated by lot.		
11-KP-092-m01	Classical Phys	ics (Mech	anics, Thermodynamics, Waves, Oscillations, Electricity, Magnetism and Optics)							
	ECTS 16	Duration	1	2 semester	Method of gradin	g numerical grade		Modul level	undergraduate	
	Method of ass	essment	(2 wee Klassi + Ü (2 This n 1. Top 120 2. Top 120	<ul> <li>(2 weekly contact hours), once a year (winter semester)</li> <li>Klassische Physik 2 (Elektromagnetismus, Optik) (Classical Physics 2 (Electromagnetism, Optics)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)</li> <li>This module has the following assessment components</li> <li>1. Topics covered in lectures and exercises in part 1 (Klassische Physik 1 (Classical Physics 1)): written examination (approx. 120 minutes).</li> <li>2. Topics covered in lectures and exercises in part 2 (Klassische Physik 2 (Classical Physics 2)): written examination (approx. 120 minutes).</li> </ul>						
	other prerequi	sites	usually chosen) or written examination (approx. 120 minutes). Assessment component 3 will be offered in German; English if agreed upon with examiner(s). Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment components 1 and 2. To qualify for admission to assessment component 3, students must pass assessment component 1 and/or 2. Students are highly recommended to attend both courses Klassische Physik 1 (Classical Physics 1) and Klassische Physik 2 (Classical Physics 2). The topics discussed in these two courses will be covered in assessment component 3. Students must register for assessment components 1 through 3 online (details to be announced). To pass this module, students must first pass assessment component 1 or 2 and must then pass assessment component 3. The grade achieved in assessment component 1 or 2 (whichever is better) and the grade achieved in assessment component 50% towards the overall grade awarded for the module. Bridge course Mathematische Rechenmethoden der Physik (Mathematical Methods of Physics) for first-semester students.							

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Application-oriente	ed Subject Physi	cs Comp	pulsory Electives 2: Lab Course (9 ECTS credits)						
11-PNNF-062-m01	Physics Labora	tory Cou	se for students of Physics Related Minor Subjects						
	ECTS 3	Duration	on 1 semester Method of grading (not) successfully completed Modul level undergraduate						
	Courses		' (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment		a) oral test (approx. 15 minutes) during experiment and b) ungraded written examination (approx. 90 minutes)						
	Participants an cation of places	d allo- s	Only as part of pool of general key skills (ASQ): 15 places. Places will be allocated by lot.						
11-P-PA-112-m01	Lab Course A								
	ECTS 5	Duration	on 1 semester Method of grading (not) successfully completed Modul level undergraduate						
	Courses		Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis): V (1 weekly contact hour) + Ü (1 weekly contact hour), once a year (winter semester) Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity, BAM): P (2 weekly contact hours)						
	Method of asse	POI	<ul> <li>This module has the following assessment components <ol> <li>Topics covered in lectures and exercises: written examination (approx. 120 minutes)</li> <li>Lab course: a) Preparing, performing and evaluating the experiments will be considered successfully completed if a Testat (exam) is passed. b) Talk (with discussion) to test the students' understanding of the physics-related contents of the cours (approx. 30 minutes).</li> </ol> </li> <li>Successful completion of approx. 50% of practice work is a prerequisite for admission to assessment component 1. To pass assessment component 2, students must pass both elements a) and b). Students will be offered one opportunity to retake element a) and/or element b). Students must register for assessment components 1 and 2 online (details to be announced). Students must register for assessment components 1 and 2 online (details to be announced). Students must attend Auswertung von Messungen und Fehlerrechnung (Measurements and Data Analysis) before attending Beispiele aus Mechanik, Wärmelehre und Elektrik (Examples from Mechanics, Thermodynamics and Electricity). To pass this module, students must pass both assessment component 1 and assessment component 2. § 53 (1) 1. a) Physik Mechanik, Wärmelehre, Elektrizitätslehre, Optik, der speziellen Relativitätstheorie § 53 (1) 1. a) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik "Grundlagen der Experimentalphysik" § 77 (1) 1. d) Physik</li></ul>						
11-P-NFB-122-m01	Basic Practical	Course B	B (Minor Studies)						
	ECTS 4	Duratio	on 1 semester Method of grading (not) successfully completed Modul level undergraduate						
	Courses	ļ	P (no information on SWS (weekly contact hours) and course language available)						
	Method of asse	essment	a) Preparing, performing and evaluating (lab report) the experiments will be considered successfully completed if a Testat (ex- am) is passed. Experiments that were not successfully completed can be repeated once. And b) talk (with discussion; approx. 30 minutes) to test the candidate's understanding of the physics-related contents of the module component. Talks that were not successfully completed can be repeated once. Both components of the assessment have to be successfully completed.						
	Modules succes completed	ssfully	11-P-PA						
	Additional Info	rmation	Additional information on module duration: 1 to 2 semesters.						

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#### Application-oriented Subject Physics Compulsory Electives 3 (24 ECTS credits)

Out of several module components covering the same contents, students may only use one each. This means that the following combinations are not permitted: - 11-KM may neither be combined with 11-QAM nor with 11-FKP.

- 11-STE may neither be combined with 11-ST nor with 11-ED.

- 11-TQM may neither be combined with 11-TM nor with 11-QM.

11-ED-092-m01	Theore	tical Ele	ctrodyna	mics							
	ECTS	8	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact	hours) and course language ava	ailable)			
	Methoo	d of asse	essment	writte specif Asses nounc 2009.	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	other p	rerequis	sites	Certai tive de on to the lee sessm ficatio	n prerequisites mus etails at the beginni assessment. If stude cturer will put their r nent in the current o on for admission to a	t be met to qualify fo ng of the course. Reg ents have obtained th egistration for asses r in the subsequent s assessment anew.	or admission to assessment. The distration for the course will be of the qualification for admission to sment into effect. Students who semester. For assessment at a la	e lecturer will in considered a de o assessment o o meet all prere ater date, stude	form students about the respec- eclaration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		
11-FKP-092-m01	Solid State Physics 1										
	ECTS 8 Duration		ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			writte specif Asses nounc 2009.	n examination (appr ïed) sment offered: Whe ed in due form unde	ox. 120 minutes, for n and how often asse er observance of Sect	modules with less than 4 ECTS essment will be offered depend tion 32 Subsection 3 ASPO (gen	credits approx. s on the metho eral academic a	90 minutes; unless otherwise d of assessment and will be an- and examination regulations)		
	other p	rerequis	sites	Certai tive de on to the lee sessm ficatio	n prerequisites mus etails at the beginni assessment. If stude cturer will put their r tent in the current o on for admission to a	t be met to qualify fo ng of the course. Reg ents have obtained th egistration for asses r in the subsequent s assessment anew.	r admission to assessment. The istration for the course will be contracted in the course will be contracted in the second second	e lecturer will in considered a de o assessment o o meet all prere ater date, stude	form students about the respec- claration of will to seek admissi- ver the course of the semester, quisites will be admitted to as- ents will have to obtain the quali-		

11-QAM-092-m01	Quanta, Atoms, Molecules										
	ECTS 8	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		Ü + Ü	(no information on	SWS (weekly contact	hours) and course langua	ge available)				
	Method of as	sessment	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations)								
	other prerequ	uisites	Certai tive d on to the le sessn ficatio	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew							
11-QM-092-m01	Quantum Me	chanics									
	ECTS 8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course langua	ge available)				
	Method of as	sessment	writte specif Asses nound 2009 Certai tive d on to	specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009. Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester,							
			sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
11-ST-092-m01	Statistical M	echanics a	nd The	rmodynamics							
	ECTS 8	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course langua	ge available)				
	Method of assessment		written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be announced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.								
	other prerequisites		Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.								
Bachelor's with 1 major N	lathematics (2013)					JMU Würzburg • generated 26	-Aug-2024 • exam. reg. data re	ecord 82 105 - - H 2013 page 48 / 60			

11-TM-092-m01	Theore	tical Me	chanics								
	ECTS	8	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S	_	V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of asse	essment	writte specif Asses nound 2009.	written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified) Assessment offered: When and how often assessment will be offered depends on the method of assessment and will be an- nounced in due form under observance of Section 32 Subsection 3 ASPO (general academic and examination regulations) 2009.						
	other prerequisites			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							
11-KET-122-m01	Nuclear and Elementary Particle Physics										
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asse	essment	written examination (approx. 120 minutes)							
	other p	rerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.							

11-KM-092-m01	Conde	nsed Ma	atter (Quan	nta, Atoms, Molecules, Solid State Physics)								
	ECTS	16	Duration	2 semes	ster	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		Kondensierte Materie 1 (Quanten, Atome, Moleküle) (Condensed Matter 1 (Quanta, Atoms, Molecules)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester) Kondensierte Materie 2 (Festkörperphysik 1) (Condensed Matter 2 (Solid State Physics)): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)								
	Metho	d of ass	essment	This module ha 1. Topics cover prox. 120 mi 2. Topics cover prox. 120 mi 3. Topics cover	is module has the following assessment components Topics covered in lectures and exercises in part 1 (Kondensierte Materie 1 (Condensed Matter 1)): written examination (ap- prox. 120 minutes). Topics covered in lectures and exercises in part 2 (Kondensierte Materie 2 (Condensed Matter 2)): written examination (ap- prox. 120 minutes). Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 minutes,							
				<ul> <li>3. Topics covered in lectures and exercises in parts 1 and 2: oral examination of one candidate each (approx. 30 minutes, usually chosen) or written examination (approx. 120 minutes).</li> <li>Assessment component 3 will be offered in German; English if agreed upon with examiner(s).</li> <li>Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment components 1</li> <li>2.</li> <li>To qualify for admission to assessment component 3, students must pass assessment component 1 and/or 2. Students a highly recommended to attend both courses Kondensierte Materie 1 (Condensed Matter 1) and Kondensierte Materie 2 (Condensed Matter 2). The topics discussed in these two courses will be covered in assessment component 3.</li> <li>Students must register for assessment components 1 through 3 online (details to be announced).</li> <li>To pass this module, students must first pass assessment component 1 or 2 and must then pass assessment component The grade achieved in assessment component 1 or 2 (whichever is better) and the grade achieved in assessment component</li> </ul>								

11-STE-092-m01	Statist	ical Mee	chanics, Th	ermodynamics and Elect	rodynamics					
	ECTS	16	Duration	2 semester	Method of grading num	erical grade	Modul level	undergraduate		
	Course	S		Statistische Mechanik und Thermodynamik (Statistical Mechanics and Thermodynamics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (winter semester) Theoretische Elektrodynamik (Theoretical Electrodynamics): V (4 weekly contact hours) + Ü (2 weekly contact hours), once a year (summer semester)						
	Methoo	d of ass	essment	This module has the follor 1. Topics covered in lectur Thermodynamics)): writ 2. Topics covered in lectur amination (approx. 120 3. Topics covered in lectur usually chosen) or writt Assessment component 3 Successful completion of 2. Students are highly recorr and Thermodynamics) and courses will be covered in Students must register for to pass this module, stud The grade achieved in ass will each count 50% towa	wing assessment compon res and exercises in part 1 iten examination (approx. res and exercises in part 2 minutes). res and exercises in parts en examination (approx. 1 will be offered in German approx. 50% of practice w mended to attend both co d Theoretische Elektrodyn assessment component 3 r assessment component 3 r assessment component 1 or 3 ressment component 1 or 3 ressmen	ents (Statistische Mechanik un 120 minutes). (Theoretische Elektrodyna 1 and 2: oral examination of 20 minutes). (Findersteine Statistische Mechan amik (Theoretical Electrody 3. (5 1 through 3 online (details ssment component 1 or 2 a 2 (whichever is better) and rded for the module.	d Thermodynar amik (Theoretica of one candidat th examiner(s). for admission to nik und Thermo ynamics). The to s to be announc nd must then p the grade achie	nik (Statistical Mechanics and al Electrodynamics)): written ex- e each (approx. 30 minutes, o assessment components 1 and dynamik (Statistical Mechanics opics discussed in these two red). ass assessment component 3. eved in assessment component 3		
	other p	rerequi	sites 1	10-M1-PHY and 10-M2-PH	f or 10-M1-NST and 10-M2	-NST				

11-TQM-092-m01	Theoretical	heoretical Mechanics and Quantum Mechanics										
	ECTS 16	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		Theo	retische Mechanik (	(Theoretical Mechanic	s): V (4 weekly contact hours) +	- Ü (2 weekly cor	ntact hours), once a year (winter				
			seme	ster)	atum Machanica). V (	weakly cantact hours) . Ü (au	vaaldu santast b					
			mest	er)		weekly contact hours) + 0 (2 v		ours), once a year (summer se-				
	Method of a	ssessment	This ı	nodule has the foll	owing assessment co	nponents						
			1. Toj (ar	pics covered in lect	ures and exercises in	part 1 (Theoretische Mechanik	(Theoretical Mec	hanics)): written examination				
			2. Top	pics covered in lect	ures and exercises in	part 2 (Quantenmechanik (Qua	ntum Mechanics	5)): written examination (approx.				
			3. Toj usi	pics covered in lectually chosen) or wri	ures and exercises in tten examination (app	parts 1 and 2: oral examination prox. 120 minutes).	of one candidat	e each (approx. 30 minutes,				
			Successful completion of approx. 50% of practice work each is a prerequisite for admission to assessment co									
	To qualify for admission to assessment component 3, students must pass assessment component 1 and/or 2. Students highly recommended to attend both courses Theoretische Mechanik (Theoretical Mechanics) and Quantenmechanik (Q											
			tum N	Mechanics). The top	oics discussed in thes	e two courses will be covered in	n assessment co	omponent 3.				
			To pa	iss this module. stu	idents must first pass	assessment component 1 or 2	and must then p	ass assessment component 3.				
			The g	rade achieved in as	ssessment componen	t 1 or 2 (whichever is better) an	d the grade achi	eved in assessment component 3				
			will e	ach count 50% tow	ards the overall grade	awarded for the module.						
	other prerec	quisites	10-M	1-PHY, 10-M2-PHY a	nd 11-MPI-3 or 10-M1-	NST, 10-M2-NST and MPI-3						
Application-oriente	ed Subject Bu	usiness Man	ageme	ent and Economics	(40 ECTS credits)							
Application-oriente	ed Subject Bu	usiness Man	ageme	ent and Economics	Compulsory Courses	30 ECTS credits)						
12-EBWL-G-082-	Introduction	n to Busines	s Adm	inistration								
m01	ECTS 5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü	(no information on	SWS (weekly contact	hours) and course language av	vailable)					
	Method of a	assessment	writte	en examination (app	prox. 60 minutes)							
	Participants	and allo-	Numl	per of places: 640.	No restrictions with re	gard to available places for Bac	chelor's students	s of Wirtschaftswissenschaft				
	cation of pla	aces	(Busi	ness Management	and Economics), wirts	g places will be allocated to st	udents of other s	s) and Wirtschaftsinformatik				
			appli	cations exceed the	number of available p	laces, places will be allocated	in a standardise	ed procedure among all appli-				
			cants	irrespective of the	ir subjects according	o the following quotas: Quota	1 (50% of places	): total number of ECTS credits				
			alrea	dy achieved in the i	respective degree sub	ject; among applicants with the	e same number ( rs of the respecti	of ECTS credits achieved, places				
	with the same number of subject semesters, places will be allocated by lot. Quota $2(25\%)$ of places): number of subject semesters.											
			cants	who already have	successfully complete	ed at least one module compon	ent of the respe	ctive module will be given prefe-				
			rentia	al consideration. Pla	aces on all courses of	the module component with a	restricted number	er of places will be allocated in				
					annig not will be illdi	nameu anu places le-allocalec	as they become	ב מימוומטוב.				

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12-EVWL-G-082-	Introdu	uction to	Economi	ics								
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	writte	n examination (appr	ox. 60 minutes)						
	Partici cation	oants an of place	d allo- s	Numb (Busir (Busir applic cants alreac will be with t cants rentia the sa	Number of places: 640. No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics), Wirtschaftsmathematik (Mathematics for Economics) and Wirtschaftsinformatik (Business Information Systems). The remaining places will be allocated to students of other subjects. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all appli- cants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Appli- cants who already have successfully completed at least one module component of the respective module will be given prefe- rential consideration. Places on all courses of the module component with a restricted number of places will be allocated in the same procedure. A waiting list will be maintained and places re-allocated as they become available.							
12-ExtUR-G-082-	Financ	ial Accou	unting									
m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S	,	V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	writte	written examination (approx. 60 minutes)							
	Participants and allo- cation of places				er of places: 640. Notes Management and ness Management and attions exceed the notes in the second to th	o restrictions with re nd Economics), Wirts stems). The remainin umber of available p subjects according t spective degree sub uota 2 (25% of place subject semesters, p uccessfully complete es on all courses of iting list will be main	gard to available places for Back schaftsmathematik (Mathematic g places will be allocated to stu- olaces, places will be allocated i o the following quotas: Quota 1 ject; among applicants with the s): number of subject semesters claces will be allocated by lot. Que at least one module component the module component with a re- ntained and places re-allocated	helor's students of or Economic dents of other s n a standardise (50% of places same number of the respect uota 3 (25% of ent of the respec estricted numb as they become	s of Wirtschaftswissenschaft s) and Wirtschaftsinformatik subjects. Should the number of ed procedure among all appli- ): total number of ECTS credits of ECTS credits achieved, places ive applicant; among applicants places): allocation by lot. Appli- ctive module will be given prefe- er of places will be allocated in e available.			

12-IntUR-G-082-	Manag	erial Ac	counting							
m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information on S	WS (weekly contact	hours) and course language ava	ailable)		
	Method	d of asse	essment	writte	n examination (appr	ox. 60 minutes)				
	Particip cation	oants an of place	d allo- s	Numb (Busir (Busir applic cants alreac will be with th cants rentia the sa	Number of places: 640. No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics), Wirtschaftsmathematik (Mathematics for Economics) and Wirtschaftsinformatik (Business Information Systems). The remaining places will be allocated to students of other subjects. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Applicants who already have successfully completed at least one module component of the respective module will be given preferential consideration. Places on all courses of the module component with a restricted number of places will be allocated in the same procedure. A waiting list will be maintained and places re-allocated as they become available.					
12-Mak1-G-082-	Macroe	economi	CS 1							
m01	ECTS	5	Duration	۱ 	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		V + Ű	+ Ü (no information on SWS (weekly contact hours) and course language available)					
	Metho	d of asse	essment	writte	written examination (approx. 60 minutes)					
	Participants and allo- cation of places			Numb (Busir (Busir applic cants alreac will be with th cants rentia the sa	er of places: 640. Noness Management and thess Management and thess Information System ations exceed the n irrespective of their ly achieved in the re e allocated by lot. Que he same number of so who already have su l consideration. Place the procedure. A wa	o restrictions with re and Economics), Wirts stems). The remainir umber of available p subjects according f spective degree sub uota 2 (25% of place subject semesters, p uccessfully complete es on all courses of iting list will be main	gard to available places for Bac schaftsmathematik (Mathematic g places will be allocated to stu places, places will be allocated i to the following quotas: Quota 1 ject; among applicants with the s): number of subject semesters places will be allocated by lot. Q ed at least one module component the module component with a re ntained and places re-allocated	helor's students of a standardise (50% of places same number of the respect outa 3 (25% of ent of the respect estricted number as they become	s of Wirtschaftswissenschaft s) and Wirtschaftsinformatik subjects. Should the number of ed procedure among all appli- ): total number of ECTS credits of ECTS credits achieved, places ive applicant; among applicants places): allocation by lot. Appli- ctive module will be given prefe- er of places will be allocated in e available.	

12-Mik1-G-082-	Micro	Microeconomics 1								
m01	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	(no information on S	SWS (weekly contact hours) and course language av	/ailable)			
	Metho	d of asse	essment	written examination (approx. 60 minutes)						
	Participants and allo- cation of places			Numb (Busin (Busin applic cants alread will bo with t cants rentia the sa	Number of places: 640. No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics), Wirtschaftsmathematik (Mathematics for Economics) and Wirtschaftsinformatik (Business Information Systems). The remaining places will be allocated to students of other subjects. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Applicants who already have successfully completed at least one module component of the respective module will be given preferential consideration. Places on all courses of the module component with a restricted number of places will be allocated in the same procedure. A waiting list will be maintained and places re-allocated as they become available.					
Application-oriente	ed Subj	ect Busir	iess Man	ageme	nt and Economics C	ompulsory Electives (10 ECTS credits)				
12-BPL-G-082-m01	Suppl	y, Produc	tion and	Opera	tions Management.	An Introduction				
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es		V + Ü	(no information on S	SWS (weekly contact hours) and course language av	/ailable)			
	Metho	d of asse	essment	writte	n examination (app	rox. 60 minutes)				
	Partici cation	pants an of place	d allo- s	Numb (Busin (Busin applic cants alread will b with t cants rentia the sa	er of places: 405. N ness Management a ness Information Sys- cations exceed the n irrespective of their dy achieved in the re- e allocated by lot. Q he same number of who already have s l consideration. Place ame procedure. A wa	o restrictions with regard to available places for Bac nd Economics), Wirtschaftsmathematik (Mathemati stems). The remaining places will be allocated to st number of available places, places will be allocated subjects according to the following quotas: Quota sepective degree subject; among applicants with the uota 2 (25% of places): number of subject semester subject semesters, places will be allocated by lot. O uccessfully completed at least one module compon ces on all courses of the module component with a niting list will be maintained and places re-allocated	chelor's student ics for Economic udents of other in a standardise 1 (50% of places e same number rs of the respect Quota 3 (25% of ent of the respe restricted numb l as they becom	s of Wirtschaftswissenschaft s) and Wirtschaftsinformatik subjects. Should the number of ed procedure among all appli- b): total number of ECTS credits of ECTS credits achieved, places ive applicant; among applicants places): allocation by lot. Appli- ctive module will be given prefe- er of places will be allocated in e available.		

12-1&F-G-082-m01	Investr	ivestment and Finance. An Introduction										
	ECTS 5 Duration		ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V + Ü	' + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	writte	written examination (approx. 60 minutes)							
	Particip cation	oants an of place	d allo- s	Numb (Busir (Busir applic cants alreac will be with t cants rentia the sa	lumber of places: 405. No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft Business Management and Economics), Wirtschaftsmathematik (Mathematics for Economics) and Wirtschaftsinformatik Business Information Systems). The remaining places will be allocated to students of other subjects. Should the number of pplications exceed the number of available places, places will be allocated in a standardised procedure among all appli- ants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits lready achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places vill be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants vith the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Appli- ants who already have successfully completed at least one module component of the respective module will be given prefe- ential consideration. Places on all courses of the module component with a restricted number of places will be allocated in he same procedure. A waiting list will be maintained and places re-allocated as they become available.							
12-Mak2-G-082-	Macroe	economi	CS 2									
m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü (no information on SWS (weekly contact hours) and course language available) written examination (approx. 60 minutes)								
	Metho	d of asse	essment									
	Particiț cation	oants an of place	d allo- s	Numb (Busir (Busir applic cants alreac will be with t cants rentia the sa	er of places: 640. Noness Management and thess Management and thess Information System ations exceed the n irrespective of their ly achieved in the re e allocated by lot. Que he same number of so who already have su l consideration. Place the procedure. A wa	o restrictions with re nd Economics), Wirts stems). The remainin umber of available p subjects according t spective degree sub uota 2 (25% of place subject semesters, p uccessfully complete ses on all courses of iting list will be main	gard to available places for Bac schaftsmathematik (Mathematic g places will be allocated to stu laces, places will be allocated i o the following quotas: Quota 1 ject; among applicants with the s): number of subject semesters laces will be allocated by lot. Q d at least one module component the module component with a ro stained and places re-allocated	helor's students of or Economic dents of other s n a standardise (50% of places same number of the respection of the respection ent of the respection estricted number as they become	s of Wirtschaftswissenschaft s) and Wirtschaftsinformatik subjects. Should the number of ed procedure among all appli- ): total number of ECTS credits of ECTS credits achieved, places ive applicant; among applicants places): allocation by lot. Appli- ctive module will be given prefe- er of places will be allocated in e available.			

12-Mark-G-082-	Introd	uction to	Market-0	Driented Management							
m01	ECTS 5 Duration			۱	1 semester         Method of grading         numerical grade         Modul level         undergraduate						
	Course	es		V + Ü	(no information on S	WS (weekly contact hours) and course lang	guage available)				
	Metho	d of asse	essment	writte	n examination (appr	ox. 60 minutes)					
	Participants and allo- cation of places			Numb (Busin (Busin applic cants alread will be with t cants rentia the sa	Number of places: 405. No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft Business Management and Economics), Wirtschaftsmathematik (Mathematics for Economics) and Wirtschaftsinformatik Business Information Systems). The remaining places will be allocated to students of other subjects. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all appli- cants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Appli- cants who already have successfully completed at least one module component of the respective module will be given prefe- rential consideration. Places on all courses of the module component with a restricted number of places will be allocated in the same procedure. A waiting list will be maintained and places re-allocated as they become available.						
12-Mik2-G-082-	Microe	economic	CS 2								
m01	ECTS	5	Duratior	1	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of asse	essment	written examination (approx. 60 minutes)							
	Participants and allo- cation of places			Numb (Busin applic cants alreac will be with t cants rentia the sa	per of places: 405. Noness Management and thess Management and thess Information System cations exceed the n irrespective of their dy achieved in the re e allocated by lot. Qu he same number of s who already have su l consideration. Place ame procedure. A wa	o restrictions with regard to available places and Economics), Wirtschaftsmathematik (Ma tems). The remaining places will be allocate umber of available places, places will be all subjects according to the following quotas: spective degree subject; among applicants tota 2 (25% of places): number of subject se subject semesters, places will be allocated accessfully completed at least one module of es on all courses of the module component iting list will be maintained and places re-al	s for Bachelor's students thematics for Economic ed to students of other s located in a standardise Quota 1 (50% of places with the same number emesters of the respect by lot. Quota 3 (25% of component of the respe t with a restricted numb llocated as they become	s of Wirtschaftswissenschaft s) and Wirtschaftsinformatik subjects. Should the number of ed procedure among all appli- ): total number of ECTS credits of ECTS credits achieved, places ive applicant; among applicants places): allocation by lot. Appli- ctive module will be given prefe- er of places will be allocated in e available.			

12-WiPo-G-082-	Introd	uction to	Economi	c Polic	у							
m01	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse	essment	writte	n examination (appr	ox. 60 minutes)						
	Participants and allo- cation of places			Number of places: 405. No restrictions with regard to available places for Bachelor's students of Wirtschaftswissenschaft (Business Management and Economics), Wirtschaftsmathematik (Mathematics for Economics) and Wirtschaftsinformatik (Business Information Systems). The remaining places will be allocated to students of other subjects. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Applicants who already have successfully completed at least one module component of the respective module will be given preferential consideration. Places on all courses of the module component with a restricted number of places will be allocated in the same procedure. A waiting list will be maintained and places re-allocated as they become available.								
Thesis (11 ECTS cre	dits)											
10-M-BAM-122-	Thesis	Mathem	atics (Ba	chelor	Thesis)							
m01	ECTS	11	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		no co	urses assigned							
	Method of assessment			written thesis Language of assessment: German, English if agreed upon with the examiner								
	Modules successfully completed			Where applicable, specific modules/module components as specified by supervisor.								

Subject-specific Ke	ey Skills	(16 ECT	S credits)	I						
10-M-MCO-122-	Mathe	Aathematics and Computer								
m01	ECTS	7	Duration	ı	2 semester	Method of grading	(not) successfully	completed	Modul level	undergraduate
	Course	S		This n	nodule comprises 2 10-M-COM-1-122: V 10-M-PRG-1-122: P	module components / + Ü (no information ( (no information on S)	. Information on co on SWS (weekly co NS (weekly contac	ourses will be ontact hours) ct hours) and	e listed separate and course lang course languag	ely for each module component. guage available) e available)
	Method	d of asso	essment	Asses stated Asses Asses	sment in this module d otherwise, success sment in module co 4 ECTS, Method of project in the form beginning of the co Language of assess Other prerequisites students about the a declaration of wi assessment over th dents who meet al assessment at a la sment in module co 3 ECTS, Method of project in the form beginning of the co Language of assess Other prerequisites students about the a declaration of wi assessment over th dents who meet al assessment at a la	le comprises the asse sful completion of the proponent 10-M-COM- grading: (not) succes n of programming exe burse) sment: German, Engli s: Certain prerequisité e respective details a ill to seek admission he course of the sem ll prerequisites will b ter date, students will proponent 10-M-PRG- grading: (not) succes n of programming exe burse) sment: German, Engli s: Certain prerequisité e respective details a ill to seek admission he course of the sem ll prerequisites will b ter date, students will be respective details a ill to seek admission he course of the sem ll prerequisites will b ter date, students will b	essments in the in module will requi- <b>1-122:</b> Computation sfully completed ercises (type and sh if agreed upon esmust be met to co the beginning of to assessment. If ester, the lecturent e admitted to asse l have to obtain the <b>1-122:</b> Programmin sfully completed ercises (type and sh if agreed upon esmust be met to co the beginning of to assessment. If ester, the lecturent eath of the beginning of to assessment. If ester, the lecturent e admitted to asse l have to obtain the ester, the lecturent e admitted to asse l have to obtain the	dividual mod ire successfu onal Mathema expenditure with the exact the course. students hav r will put their essment in the qualification g course for expenditure with the exact the course. students hav r will put their essment in the students hav r will put their essment in the equalification	lule components lule completion of atics Computati of time to be sp miner nission to asses Registration for ve obtained the ir registration for on for admission students of Mat of time to be sp miner nission to asses Registration for ve obtained the ir registration for the current or in on for admission	s as specified below. Unless all individual assessments. onal Mathematics becified by the lecturer at the assessment. The lecturer will inform the course will be considered qualification for admission to or assessment into effect. Stu- the subsequent semester. For to assessment anew. hematics and other subjects becified by the lecturer at the assent. The lecturer will inform the course will be considered qualification for admission to or assessment into effect. Stu- the subsequent semester. For the subsequent semester. For the subsequent semester. For assessment into effect. Stu- the subsequent semester. For to assessment anew.
	other p	rerequis	sites	ву wa	y or exception, addi	itional prerequisites a	ire listea în the se	ction on asse	essments.	

10-M-MDA-122-	Introduction into mathematical thinking and working							
m01	ECTS 4	Duratio	n 1 semester Method of grading (not) successfully completed Modul level undergraduate					
	Courses		<ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>10-M-MDA-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-MDA-2-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul>					
	Method of asse	essment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.					
			<ul> <li>Assessment in module component 10-M-MDA-1-122: Basic Notions and Methods of Mathematical Reasoning Basic Notions and Methods of Mathematical Reasoning</li> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course)</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment at a later date, students will have to obtain the qualification for admission to assessment anew.</li> <li>Assessment in module component 10-M-MDA-2-122: Reasoning and Writing in Mathematics Reasoning and Writing in Mathematics</li> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course)</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course.</li> <li>2 ECTS, Method of grading: (not) successfully completed</li> <li>project assignments (type and expenditure of time to be specified by the lecturer at the beginning of the course)</li> <li>Language of assessment: German, English if agreed upon with the examiner</li> <li>Other prerequisites: Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the</li></ul>					
	other prerequis	sites	By way of exception, additional prerequisites are listed in the section on assessments.					
	Referred to in L	PO I	§ 73 (1) 5. Mathematik Angewandte Mathematik					
10-M-SEM-122-	Seminar Mathe	ematics						
m01	ECTS 5	Duratio	1 semester Method of grading (not) successfully completed Modul level undergraduate					
	Courses		S (no information on SWS (weekly contact hours) and course language available)					
	Method of asse	essment	talk (approx. 60 to 180 minutes) Language of assessment: German, English if agreed upon with the examiner					
	other prerequis	sites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respec- tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admissi- on to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to as- sessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the quali- fication for admission to assessment anew.					
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