

Module plan for courses in summer semester 2023

As of: 19.12.2022

For more specific provisions, please refer to the respective examination regulations (PO).

Lecture	Lecturer	SWS (weekly teaching hours)	Credits	Bachelor mathematics				Master mathematics			BA / MA teacher education			ADILT		
				Obligatory module (previous PO: basic/advanced module)	Elective module B.Sc. (previous PO: Supplementary module)	(previous PO: Specialization module)		Main module	Elective module M.Sc.	Specialisation module	Basic module BA teacher edu.	Advanced module BA	Specialisation module (final oral examination)			
in/from the 2nd semester bachelor's programme	Analysis II	Racke	4+2	9	x							x				
	Computational Mathematics	Frei	2+1	4,5	x							x			1	
	Linear Algebra II	Michalek	4+2	9	x							x				
	Mathematical Modelling	Junk	2+1	4,5	x											
	Vectors, Matrices and Tensors for Data Analysis with Julia (ADILT course)	Schweighofer	2+1	4,5		x h)										1
in/from the 4th semester bachelor's programme	Numerics for ordinary differential equations	Junk	2+1	4,5	x b)	x	x			x				x d)		
	Optimisation I	Volkwein	2+1	4,5	x b)	x	x			x				x d), e)		
	Statistics	Bürkel	2+1	4,5	x							x a)			1	
	Probability Theory	Neamtu	2+1	4,5	x							x a)				
	Geometry I for teacher education	Berchtold	3+1	4,5								x c)				
	Stochastics for teacher education	Kupper	4+2	9								x a)			1	
	Algebra II	Schweighofer	2+1	4,5		x	x			x				x		
	Algebraic Number Theory	Schweighofer	2+1	4,5		x	x			x				x		
	Functional Analysis	Gmeineder	2+1	4,5		x	x			x				x		
	Function Theory	Gmeineder	2+1	4,5		x	x			x			x			
	Stochastic Processes	Neamtu	2+1	4,5		x	x	x g)	x g)	x				x		
	Advanced Set Theory: Forcing and the Independence of the Cont. Hypothesis	Brickhill	2+0	3		x				x				x i)		1
	Fourier Analysis	Denk	2+1	4,5		x				x				x		
	Verification Numerics	Garloff	2+0	3		x	x			x						
<i>Subject to change: Model theory</i>	<i>Bagayoko, Kuhlmann</i>	<i>2+1</i>	<i>4,5</i>		<i>x</i>				<i>x</i>							

Seminars and other courses in summer semester 2023

If you would like to participate in one of the seminars, please contact the lecturers in good time (before the start of lectures) by email.								
Title of seminar	Lecturer	Mathematics BSc Seminar	Mathematics BSc Advanced seminar	Mathematics MSc Advanced seminar	Mathematics teacher education Seminar	Mathematical Finance BSc Seminar	Mathematical Finance BSc Seminar for BSc thesis	Mathematical Finance MSc Seminar
Numerics	Frei, Schropp, Junk		x	x	x			
Seminar for teacher education	Junk				x			
Algebraic methods for physics	Michalek		x	x				
Algebra	Scheiderer		x					
Long time behaviour for the Keller-Segel model	Trussardi			x				
Fractals and Fractal Processes	Beran		x	x		x		x
Seminar Optimisation	Azmi, Volkwein		x	x	x	x	x	x
Seminar Stochastic Differential Equ.	Neamtu			x				x

Subject-specific didactics	
Subject-specific didactics 1 (2 parallel groups)	Racke, Schühle
Subject-specific didactics 3	Schühle

Mathematical service	
Mathematics II for Chemistry, Life Science and Nanoscience	Frei
Mathematics 2 for physics students	Kunze
Mathematics II for economics students	Schropp

Start of studies	
Introduction to mathematics 2	Freistühler, Pippich
Plenary exercise Analysis II	Pippich
Plenary exercise Linear Algebra II	Pippich

Research seminars and colloquia	
Real Geometry and Algebra	Kuhlmann, Michalek, Scheiderer, Schweighofer
Complexity, Model Theory, Set Theory	Kuhlmann, Michalek, Antos-Kuby (Philosophy)
Stochastic Analysis	Denk, Kunze, Kupper, Neamtu
Partial Differential Equations	Freistühler, Gmeineder, Racke, Trussardi
Doctoral researcher seminar: Stochastics	Beran, Kupper

Numerical Optimisation	Azmi, Volkwein
Interdisciplinary Logic Colloquium	Kuhlmann, Antos-Kuby (Philosophy)
Department Colloquium	Lecturers of the department