

# MSc Computational Sciences - Course Offers

## Elective Mathematics and Computer Science Area

last updated: 12.06.2025

Module Code	Module Name	Course Title	WS25	SS26	WS26	SS27
5725 CFuncA	Functional Analysis	Functional analysis		x		(x)
5725 CAppIA	Selected Topics of Applied Analysis	Introduction to partial differential equations		tbc		tbc
5871 CGeoPh	Geometry in Physics					
5871 CMThPh	Mathematics in Theoretical Physics					
5725 CNumME	Einführung in die Numerische Mathematik	Introduction to Numerical Methods for Partial Differential Equations	x		(x)	
		Numerische Mathematik		x		(x)
5725 CNumMS	Numerical Mathematics Seminar	Seminar on methods of mathematical modeling in life sciences	x		(x)	
5871 CNumMT	Selected Topics of Numerical Mathematics	Performance-Engineering	x		(x)	
		Scientific Computing: Introduction to Atmospheric Flow Simulation				
		Numerische Strömungsmechanik				
		Introduction in Climate Modeling				
5871 CConvO	Convex Optimization	Convex Optimization				
5871 CDiscr	Methods and problems in discrete mathematics	Methods and problems in discrete mathematics				

**Please note:** the course availabilities on this list are not binding and only meant as a guide for your long-term planning. Always double-check the course catalogue in KLIPS2.0!

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5871 CProba	Probability Theory 2	Probability Theory II				
5871 CStcha	Selected Topics of Stochastics	Random graphs				
		Statistics				
		Probability Theory I		x		(x)
		Gaussian random fields				
5751 CStat0	Statistics	Statistics		(x)		
5871 CStoch	Probability Theory, Stochastic Processes and Network Science	Probability Theory and Stochastic Pocesess for Physicists	x		(x)	
		Introduction to Network Science		x		(x)
		Complex Networks and Energy Grids				
5871 CInfTh	Information Theory and Statistical Physics					
5871 CQMeth	Qualitative Methods in Theoretical Physics					
5871 CMathS	Mathematics Seminar	various				

Legend:	x	(x)	tbc
	confirmed	planned	to be confirmed

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