

<b>Studiengangkurzbeschreibung</b> (gemäß APO §6 Abs. 3 Nr. 1a)	
Studiengang (Langbezeichnung): <sup>1)</sup>	Mathematik (alte SPO)
Studiengang (Kurzbezeichnung): <sup>2)</sup>	MA
Abschlussgrad:	Bachelor of Science (B.Sc.)
Sprache:	de
Erstellt von (Nachname, Fakultät):	Prof. Dr. W. Lauf, IM
SPO vom (tt.mm.jjjj):	27.05.2013 (konsolidierte Fassung)
Erstelldatum (tt.mm.jjjj):	19.03.2026
Gültigkeitszeitraum (Semester):	SoSe 26

HIS-Modulnr.	Modulnr. laut SPO	Modulkurzbezeichnung	(Teil-) Modulbezeichnung Deutsch (lang)	(Teil-) Modulbezeichnung Englisch (lang)	Modultyp <sup>3)</sup>	Schwerpunkt	Studiensemester <sup>4)</sup>
5110010	1	AN1	Analysis 1	Analysis 1	PM	---	1
5110020	3	LA1	Lineare Algebra 1	Linear Algebra 1	PM	---	1
5110030	6	INF	Grundlagen der Informatik	Theory of Computation	PM	---	1
5110040	7	PG1	Programmieren 1	Programming 1	PM	---	1
5110050	9.1	MS1	Mathematische Software 1	Mathematical Software 1	TPM	---	1
5110060	2	AN2	Analysis 2	Analysis 2	PM	---	2
5110070	4	LA2	Lineare Algebra 2	Linear Algebra 2	PM	---	2
5110080	5	WS1	Wahrscheinlichkeitstheorie und Statistik 1	Probability and Statistics 1	PM	---	2
5110090	8	PG2	Programmieren 2	Programming 2	PM	---	2
5110110	9.2	MS2	Mathematische Software 2	Mathematical Software 2	TPM	---	2
5110100	10	AWP	AW: Präsentation	Presenting	PM	---	2
5120010	11	AN3	Analysis 3	Analysis 3	PM	---	3
5120020	12	GDG	Gewöhnliche Differentialgleichungen	Ordinary Differential Equations	PM	---	4
5120030	13	ZTH	Elementare Zahlentheorie	Elementary Number Theory	PM	---	3
5120040	14	WS2	Wahrscheinlichkeitstheorie und Statistik 2	Probability and Statistics 2	PM	---	3
5120050	15	NM1	Numerische Mathematik 1	Numerical Analysis 1	PM	---	3
5120060	17	SEM	Mathematisches Seminar	Mathematical Seminar	PM	---	4
5120070	18	DAB	Datenbanken	Databases	PM	---	4
5120080	16	VE1	Versicherungsmathematik 1	Insurance Mathematics 1	PM	---	4
5120090	19	PHY	Physik	Physics	PM	---	4
5120100	27.1	PXO	OOP-Projekt	OOP-Project	TPM	---	5
5120110	27.2	PXS	Statistik -Software-Projekt	Statistical Software Project	TPM	---	5
5120120	27.3	PXR	Fallbeispiele Recht	Case Studies in Law	TPM	---	5
5120140	27.4	PXA	Projekt Artificial Intelligence	Project Artificial Intelligence	TPM	---	5
5120130	20	BWW	BWL-Wirtschaft	Business Economics	PM	---	6.
5124010	28	PXK	Praxisseminar	Internship Seminar	PM	---	5
5126010	23	DIM	MG A: Diskrete Mathematik	Discrete Mathematics	WPM	---	6 o. 7
5126020	23	VAR	MG A: Variationsrechnung	Calculus of Variations	WPM	---	6 o. 7
5126080	23	FT1	MG A: Funktionentheorie 1	Function Theory 1	WPM	---	6 o. 7
5126210	23	FT2	MG A: Funktionentheorie 2	Function Theory 2	WPM	---	6 o. 7
5126090	23	DFG	MG A: Differentialgeometrie	Differential Geometry	WPM	---	6 o. 7
5126220	23	FOU	MG A: Fourieranalysis	Fourier Analysis	WPM	---	6 o. 7
5126240	23	TOP	MG A: Topologie	Topology	WPM	---	6 o. 7
5126400	23	GEO	MG A: Elementare Geometrie	Elementary Geometry	WPM	---	6 o. 7
5126410	23	APP	MG A: Approximationstheorie	Approximation Theory	WPM	---	6 o. 7
5126030	24	MKP	MG B: Markow-Ketten und -Prozesse	Markov Chains and Processes	WPM	---	6 o. 7
5126100	24	LOP	MG B: Lineare Optimierung	Linear Programming	WPM	---	6 o. 7
5126110	24	SPV	MG B: Stichprobenverfahren	Sampling Theory	WPM	---	6 o. 7
5126190	24	KOP	MG B: Kombinatorische Optimierung	Combinatorial Optimization	WPM	---	6 o. 7
5126200	24	MIT	MG B: Maß- und Integrationstheorie	Measure and Integration Theory	WPM	---	6 o. 7
5126230	24	NM2	MG B: Numerische Mathematik 2	Numerical Analysis 2	WPM	---	6 o. 7
5126420	24	RKL	MG B: Regression und Klassifikation	Regression and Classification	WPM	---	6 o. 7
5126530	24	KOPT	MG B: Online Optimization	Online Optimization	WPM	---	6 o. 7
5126540	24	MVS	MG B: Multivariate Statistik	Multivariate Statistics	WPM	---	6 o. 7
5126550	24	ZRP	MG B: Zeitreihenprognose	Time Series Forecasting	WPM	---	6 o. 7
	24	NEN	MG B: Neuronale Netzwerke	Neural Networks	WPM	---	6 o. 7
5126040	25	BWV	MG C: BWL-Versicherungen	Business Administration of Assurances	WPM	---	6 o. 7
5126050	25	VE2	MG C: Versicherungsmathematik 2	Insurance Mathematics 2	WPM	---	6 o. 7
5126120	25	SVM	MG C: Schadenversicherungsmathematik	Non-Life Insurance Mathematics	WPM	---	6 o. 7
5126170	25	VPS	MG C: Versicherungsplanspiel	Insurance Business Simulation	WPM	---	6 o. 7
5126430	25	EFI	MG C: Einführung in die Finanzmathematik	Introduction to Financial Mathematics	WPM	---	6 o. 7
5126060	26	ELT	MG D: Elektrotechnik	Electricity and Magnetism	WPM	---	6 o. 7
5126070	26	SEN	MG D: Software-Engineering	Software Engineering	WPM	---	6 o. 7
5126130	26	BIV	MG D: Grundlagen der Bildverarbeitung	Introduction to Image Processing	WPM	---	6 o. 7
5126140	26	KRY	MG D: Grundlagen der Kryptographie	Introduction to Cryptography	WPM	---	6 o. 7
5126150	26	TPH	MG D: Technische Physik	Applied Physics	WPM	---	6 o. 7
5126250	26	ROB	MG D: Robotik	Robotics	WPM	---	6 o. 7
5126260	26	AD	MG D: Algorithmen und Datenstrukturen	Algorithms and Data Structures	WPM	---	6 o. 7
5126270	26	MTI	MG D: Moderne Theoretische Informatik	Modern Theoretical Computer Science	WPM	---	6 o. 7
5126280	26	CFD	MG D: Einführung in CFD	Introduction into CFD	WPM	---	6 o. 7
5126290	26	DOCO	MG D: Quanten-Computing	Quantum Computing	WPM	---	6 o. 7
5126300	26	ZNNZ	MG D: Zeitreihenprognose: Neuronale Netze und Machine Learning	Time Series Forecast: Neuronal Networks and Machine Learning	WPM	---	6 o. 7
5126440	26	MBV	MG D: Medizinische Bildverarbeitung	Medical Image Processing	WPM	---	6 o. 7
5126450	26	DDLI	MG D: Deep Learning for Image Classification and Segmentation	Deep Learning for Image Classification and Segmentation	WPM	---	6 o. 7
5126460	26	RT	MG D: Regelungstechnik	Control Engineering	WPM	---	6 o. 7
5126470	26	DDAT	MG D: Digitale Audioteknik	Digital Audio Technology	WPM	---	6 o. 7
5126480	26	BMDB	MG D:	Data Wrangling with MongoDB	WPM	---	6 o. 7
5126490	26	DHPC	MG D: High Performance Computing	High Performance Computing	WPM	---	6 o. 7
5126500	26	KDSP	MG D: Applied Data Science with Python	Applied Data Science with Python	WPM	---	6 o. 7
5126510	26	MML	MG D: Mathematische Grundlagen des Maschinellen Lernens	Mathematical Machine Learning	WPM	---	6 o. 7
5126520	26	MUS	MG D: Modellierung und Simulation	Modelling and Simulation	WPM	---	6 o. 7
5126530	26	AML	MG D: Advanced Machine Learning	Advanced Machine Learning	WPM	---	6 o. 7
	26	KAPT	MG D: Applied Optimization	Applied Optimization	WPM	---	6 o. 7
	26	DTSM	MG D: Time Series Modeling and Prediction	Time Series Modeling and Prediction	WPM	---	6 o. 7
4444351	22.2	BAS	Bachelorarbeit (mündliche Präsentation)	Bachelor Thesis (Presenting)	WPM	---	6 o. 7

HS-Modulnr.	Modulnr. laut SPO	Modulkurzbezeichnung	Prüfungstyp <sup>1)</sup>	Prüfungsdauer in Min. <sup>2)</sup>	Ausgestaltung und Erläuterungen <sup>3)</sup>	Erstprüfer/in <sup>4)</sup>	Zweitprüfer/in <sup>4)</sup>	Besondere Zulassungsvoraussetzungen	Zugelassene Hilfsmittel	Unterrichts- und Prüfungssprache <sup>1)</sup>	Regelungen zu Bonusleistungen <sup>2)</sup>	Besonderer Prüfungstermin	Zentrale Prüfungsplanung (im Prof.-prüfungsraum) J/N	Angebot im Ergänzungsprüfungsraum <sup>3)</sup> 17.09. - 30.09.26 J/N	LV findet statt J/N	Import aus <sup>7)</sup>	Export nach <sup>7)</sup>	Bemerkungen
5110010	1	AN1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5110020	3	LA1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5110030	6	INF	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5110040	7	PG1	schrP	90	---	Hann	Bum	Übungsabgabe m.E.	k	de	---	---	J	N	J	---	RSDS: PG1	---
5110050	9,1	MS1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5110060	2	AN2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5110070	4	LA2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5110080	5	WS1	schrP	90	---	---	---	Übungsabgabe m.E.	Sk (Rth), Tr	de	---	---	J	N	J	---	---	---
5110090	8	PG2	schrP	90	---	---	---	Übungsabgabe m.E.	Sf (1 DIN A4-Blatt beidseitig)	de	max. eine Notenstufe Verbesserung durch Präsentation	---	J	N	J	---	U4: PG2, RSDS: PG2	---
5110110	9,2	MS2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5110100	10	AWP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5120010	11	AN3	schrP	90	---	---	---	---	a	de	---	30.04.2026	vW	N	N	---	---	---
5120020	12	GDG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5120030	13	ZfH	schrP	90	---	---	---	---	Kk (Los), Tr	de	---	---	J	N	N	---	---	---
5120040	14	WS2	schrP	90	---	---	---	---	Sk (eigene Mitschrift), Tr	de	---	---	J	N	J	---	---	---
5120050	15	NM1	schrP	90	---	---	---	erfolgreiche Bearbeitung von 2 praktischen Aufgaben	Kk, Sf (1 DIN A4 Blatt beidseitig)	de	---	---	J	N	J	---	---	---
5120060	17	SEM	Pra	45	---	---	---	---	TN (75%)	---	---	---	N	N	J	---	---	---
5120070	18	DAB	schrP	90	---	---	---	Übungsabgabe m.E.	Sf (1 DIN A4-Blatt beidseitig, handschriftlich)	de	---	---	J	N	J	---	ISE4a: DB	---
5120080	16	VE1	schrP	90	---	---	---	---	Sf (max. 2 DIN A4 Seiten, handschriftlich), Tr	de	---	---	J	N	J	---	---	---
5120090	19	PHY	schrP	90	---	---	---	---	Kuy, Ilg	de	---	---	J	N	N	---	---	---
5120100	27,1	PX0	---	---	---	---	---	---	Sf, Sf (1 DIN A4 Blatt beidseitig)	---	---	---	---	---	---	---	---	---
5120110	27,2	PXS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5120120	27,3	PXR	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5120140	27,4	PXA	prLN	---	Modellierungsprojekt, kommentierter Code, Kurzpräsentation	Vos	---	---	---	de	---	---	N	N	J	---	---	---
5120130	20	BWW	schrP	90	---	---	---	---	Fiml, Zsg	---	---	---	J	N	J	---	---	---
5124010	28	PXK	Prä	15-45	---	---	---	---	Dozenten Fakultät IM	---	---	---	N	N	J	---	---	---
5126010	23	DIM	schrP	90	---	---	---	---	Los, Ilg	de	---	---	J	N	J	---	---	---
5126020	23	VAR	schrP	90	---	---	---	---	a, Pim	de	---	---	J	N	J	---	---	---
5126080	23	PA1	schrP	90	---	---	---	---	a	de	---	19.06.2026	vW	N	N	---	---	---
5126210	23	FT2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126090	23	DFG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126220	23	FOJ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126240	23	TOP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126400	23	GEO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126410	23	APP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126030	24	MKP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126100	24	LOP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126110	24	SPV	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126190	24	KOP	mdIP	30	---	---	---	erfolgreiche Bearbeitung einer praktischen Aufgabe	k	de	---	KW 21	vW	N	N	---	---	---
5126200	24	MIT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126230	24	NM2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126420	24	RKL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126530	24	KOP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126540	24	MUS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	K1: MUS
5126550	24	ZBP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0	24	NEN	schrP	90	---	---	---	---	k	de	---	---	J	N	J	---	K14: NN	---
5126040	25	BWW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126050	25	VE2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126120	25	SVM	schrP	90	---	---	---	---	Sf (1 DIN A4-Blatt beidseitig), Tr	de	---	---	J	N	J	---	---	---
5126170	25	VPS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126430	25	ETI	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126060	26	ELT	schrP	90	---	---	---	---	Sf (1 DIN A4-Blatt beidseitig), Tr	de	---	---	J	N	N	---	---	---
5126070	26	SEN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126130	26	BIV	schrP	90	---	---	---	Übungsabgabe m.E.	k	de und en	---	---	J	N	J	---	---	en, falls # Studierende ohne Deutsch -> Q, sonst de
5126140	26	KRY	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126150	26	TPH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126250	26	ROB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126260	26	AD	schrP	90	---	---	---	Übungsabgabe m.E.	2 handschriftliche Seiten	de	Sammeln von 5 Bonuspunkten in den Übungen	---	J	N	J	---	IV3: AD	---
5126270	26	MT1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126280	26	CFD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126290	26	DOCO	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126300	26	ZMNZ	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126440	26	MBV	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126450	26	DDL1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126460	26	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126470	26	DDAT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126480	26	DMDB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126490	26	DHPC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126500	26	KESP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126510	26	MMIL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5126520	26	MUS	schrP	90	---	---	---	erfolgreiche Bearbeitung einer praktischen Aufgabe	Tr, Sf (2 DIN A4 Seiten, handschriftlich)	de und en	---	---	J	N	J	---	K16: MUS	---
5126530	26	AML	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
0	26	KAPT	schrP	60	---	---	---	---	Kk/Lra	Lra/Kk	---	17.04.2026	N	N	J	---	---	weitere schrP 60 im 2. Teil in Clermont-Ferrand
0	26	DTSM	StA	---	---	---	---	---	Chgo	Vos	---	1.b.d.	N	N	J	---	16: DTSM	---
4444351	22.2	BAS	Pra	15-45	---	---	---	hauptsächlich, nicht geneigte Professorinnen / Professoren Fakultät IM, Ausnahmen auf Antrag	---	---	de und en	---	N	N	J	---	---	Anmeldung über Sharepoint

Legende:	
xxx	= importiertes Modul
---	= vorgezogene Wiederholungsprüfung (W). Tristgerechte Anmeldung direkt bei Erstprüferinnen bzw. Erstprüfern erforderlich
a	= alle Folgenden
sk	= Skriptum
AU	= Arbeits- und Übungsblätter
pf	= publizierte Formelsammlung
k	= keine
Kol	= Kolloquium
Ksk	= Kurzschrift (Def. u. Satze)
L	= Literatur
mdIP	= mündliche Prüfung
m.E.	= mit Erfolg (unbenotet)
N	= Notebook
pr	= Portfolioprüfung
Pra	= Präsentation (inkl. schriftl. Ausarbeitung bei SEM)
prLN	= praktischer Leistungsnachweis
schrB	= schriftlicher Bericht
schrP	= schriftliche Prüfung
Sf	= selbstverfasste Formelsammlung
StA (m.P.)	= Studienarbeit (mit Präsentation)
THE	= Taschenrechner
TN (%)	= Taschenrechner mit %-Taste
Tr	= Taschenrechner (nicht programmierbar)