

# Bachelorstudiengang APPLIED MATHEMATICS

## Englischsprachiges Studienangebot ab WS 2018/19

Fakultätsratsbeschluss vom 16.05.2018

	1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
<b>Modul 1</b>	<b>Analysis I</b> Ms/120 4+2+1 SWS 10 CP	<b>Analysis II</b> Ms/120, alt. Mm/30 4+2+1 SWS 10 CP	<b>Analysis III</b> Ms/120, alt. Mm/30 4+2+1 SWS 10 CP	<b>Numerical Mathematics</b> Ms/120, alt. Mm/30, LT 2+2+3 SWS 10 CP	<b>Math. Seminar</b> Vo/60, mTe/15 0+4+0 SWS 5 CP	<b>Internship</b> $M=(2PIsnB+PIIm/30)/3$
<b>Modul 2</b>	<b>Linear Algebra I</b> Ms/120 4+2+1 SWS 10 CP	<b>Linear Algebra II</b> Ms/120, alt. Mm/30 4+2+1 SWS 10 CP	<b>Algebra and Number Theory</b> Ms/120, alt. Mm/30 4+2+1 SWS 10 CP	<b>Probability and Statistics</b> Ms/120, alt. Mm/30 4+2+1 SWS 10 CP	<b>Computational Statistics</b> Ms/120, alt. Mm/30, LT 2+2+3 SWS 10 CP	0+1+0 SWS 15 CP
<b>Modul 3</b>	<b>Propaedeutic</b> Ms/90 0+4+0 SWS 5 CP	<b>Computer Algebra and LaTeX</b> Ms/90, alt. Msn/B, LT 0+0+4 SWS 5 CP	<b>Graphs and Networks</b> Ms/90, alt. Mm/30 2+1+1 SWS 5 CP	<b>Theoretical Computer Science</b> Ms/90, alt. Mm/30 2+1+1 SWS 5 CP	<b>Machine Learning/ Pattern Recognition</b> $M= (2PIIm/30+PIIn/B)/3$ 3+2+2 SWS 10 CP	<b>Bachelor Project</b> $M=(2BA+PI4m/K45)/3$ - Bachelor Thesis mit Tutorium 1 SWS 12 CP - Colloquium 3 CP
<b>Modul 4</b>	<b>Studium Generale I</b> $M = (PI4s/60+2PI4s/90)/3$ - Academic Skills and English PI4s/60/1/3 0+2+0 SWS - Basic German PI4s/90/2/3 0+4+0 SWS Für Deutsch-Muttersprachler: Statt Basic German zwei aus: - Interkulturelles Training, PI4sn/B/1/3 - Rhetorik, PI4sn/R/1/3 - Kommunikationstraining, PI4sn/B/1/3 - 2. Fremdsprache A1-A2, PI4s/90/1/3 jeweils 0+2+0 SWS 0+6+0 SWS 5 CP	<b>Introduction to Programming</b> Ms/90 2+0+2 SWS 5 CP	<b>Selective Modules (3 out of 7):</b> - Selected Topics in Pure Mathematics (2+1+1 SWS/ 5 CP/ Mm/30) - Selected Topics in Applied Mathematics (2+1+1 SWS/ 5 CP/ Mm/30) - Selected Topics in Computer Science (2+1+1 SWS/ 5 CP/ Ms/90, alt. Mm/30, alt. Msn/B) - Selected Topics in Engineering Sciences (2+1+1 SWS/ 5 CP/ Ms/90, alt. Mm/30, alt. Msn/B) - Mathematical Project (0+0+4 SWS/ 5 CP/ Msn/PA, alt. Msn/B) - Studium Generale II (2+2+0 SWS/ 5 CP) - Interdisciplinary Module (2+1+1 SWS/ 5 CP/ Ms/90, alt. Mm/30, alt. Msn/B) 12 SWS		15 Credits	0+1+0 SWS 12+3 CP
<b>Gesamt</b>	<b>24 SWS 30 Credits</b>	<b>22 SWS 30 Credits</b>	<b>22 SWS 30 Credits</b>	<b>22 SWS 30 Credits</b>	<b>22 SWS 30 Credits</b>	<b>2 SWS 30 Credits</b>