

BSc Physics and Data Science (180 CP)

	CHOICE / CORE / CAREER					3 x 45 = 135 CP		CONSTRUCTOR Track		45 CP
3 rd Year	Bachelor Thesis / Seminar m, 15 CP					Summer Internship / Start-Up (after 2 nd year) m, 15 CP		New Skills / Methods Modules me, 5 CP	New Skills Modules	
CAREER	Specialization Physics I me, 5 CP	Specialization Physics II me, 5 CP	Specialization Data Science me, 5 CP							
2 nd Year	Quantum Mechanics m, 5 CP	Computational Modeling m, 5 CP	Statistical Physics m, 5 CP	Advanced Lab II m, 5 CP	Machine Learning m, 5 CP	Statistics and Data Analytics m, 5 CP		me, 15 CP		
	Analytical Mechanics m, 5 CP		Electrodynamics & Relativity m, 5 CP	Advanced Lab I m, 5 CP	Scientific Data Analysis m, 5 CP	Probability and Random Processes m, 5 CP				
CORE										
1 st Year	Modern Physics m, 7.5 CP		Mathematical Modeling m, 7.5 CP		Own Selection me, 7.5 CP		Matrix Algebra & Adv. Calculus II m, 5 CP		German / Humanities me, 2.5 CP	
	Classical Physics m, 7.5 CP		Scientific Programming with Python m, 7.5 CP		Own Selection me, 7.5 CP		Matrix Algebra & Adv. Calculus I m, 5 CP		German / Humanities me, 2.5 CP	
CHOICE	Minor Option in Physics (30 CP)									
CP: Credit Points m: mandatory me: mandatory elective Study abroad Option in 5 th Semester (22.5 CP)										