

BSc Physics and Data Science (180 CP)

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