CONSTRUCTOR UNIVERSITY

BSc Mathematics, Modeling and Data Analytics (180 CP)

	CHOICE / CORE / CAREER (3 x 45 = 135 CP)				CONSTRUCTOR Track (45 CP)	
3rd Year CAREER	Bachelor Thesis / Seminar (research or industry) m, 15 CP	MMDA Specialization IV me, 5 CP	Summer Internship / Start-Up (after 2nd year) m, 15 CP		Argumentation, Data Visualization and Communication** m, 5 CP	Agency, Leadership & Accountability OR Community Impact Project me, 5 CP
	MMDA Specialization II me, 5 CP	MMDA Specialization III me, 5 CP				Linear Model and Matrices OR Complex Problem Solving me, 5 CP
2nd Year CORE	Discrete Mathematics m, 5 CP	Computational Modeling m, 5 CP	Real Analysis m, 5 CP	MMDA Specialization I me, 5 CP	Machine Learning m, 5 CP	Statistics and Data Analytics m, 5 CP	Causation / Correlation** m, 2.5 CP
	Number Theory m, 5 CP		Algebra m, 5 CP	Complex Analysis m, 5 CP	Scientific Data Analysis m, 5 CP	Probability and Random Processes m, 5 CP	Logic** m, 2.5 CP
1st Year CHOICE	Linear Algebra m, 7.5 CP		Mathematical Modeling m, 7.5 CP	Own Selection me, 7.5 CP		Matrix Algebra & Advanced Calculus II m, 5 CP	German / Humanities me, 2.5 CP
	Analysis m, 7.5 CP		Scientific Programming with Python m, 7.5 CP	Own Selection me, 7.5 CP		Matrix Algebra & Advanced Calculus I m, 5 CP	German / Humanities me, 2.5 CP
	Minor Option Math (30 CP)						

CP: Credit Points

m: mandatory
me: mandatory elective

Study abroad Option in 5th Semester (22.5 CP)

** Different module perspectives available