Studienverlaufsplan, M.Sc. Data Science, Studienbeginn zum Wintersemester

1st semester		2nd semester		3rd semester		4th semester	
Module	ECTS	Module	ECTS	Module	ECTS	Module	ECTS
MD 1: Statistical Theory		**MD 2: Advanced Statistical Learning**		**MD 5: Project Work**		**MD 9: Master Thesis**	
Statistical Theory (4L + 2T)	9	Advanced Statistical Learning (4V + 2T)	9	Advanced Case Studies (4P) or External Internship	8	Master Thesis Advanced Seminar	30
				Seminar	4		
MD 7: Applied Data Science		**MD 6: Advanced Machine Learning**					
One elective course (4L + 2T) or Two elective courses (2L + 1T)	9	One elective course (4L + 2T) or Two elective courses (2L + 1T)	9	One elective course (4L + 2T) or Two elective courses (2L + 1T)	9		
MD 4 Data Science in Practice		**MD 8: Methodical Data Science**					
Data Science in Context (2L)	3	One elective course (4L + 2T) or Two elective courses (2L + 1T)	9	One elective course (4L + 2T) or Two elective courses (2L + 1T)	9		
Advanced Programming Course (2L)	3						
MD 3: Advanced Programming in R							
Advanced R: Theory, Concepts, and Paradigms (2L + 1T)	4.5	Visualization of Complex Data Structures (2L + 1T)	4.5				
	28.5		**31.5**		**30**		**30**

Advanced Statistics | Specialization | Data Science Tools | Independent work/presentation

Studienverlaufsplan, M.Sc. Data Science, Studienbeginn zum Sommersemester

1st semester		2nd semester		3rd semester		4th semester	
Module	ECTS	Module	ECTS	Module	ECTS	Module	ECTS
MD 2: Advanced Statistical Learning		**MD 1: Statistical Theory**		**MD 5: Project Work**		**MD 9: Master Thesis**	
Advanced Statistical Learning (4V + 2T)	9	Statistical Theory (4L + 2T)	9	Advanced Case Studies (4P) or External Internship	8	Master Thesis Advanced Seminar	30
				Seminar	4		
MD 7: Applied Data Science		**MD 8 Methodical Data Science**					
One elective course (4L + 2T) or Two elective courses (2L + 1T)	9	One elective course (2L + 2T)	4.5	One elective course (4L + 2T) and One elective course (2L + 1T)	9 4.5		
MD 6: Advanced Machine Learning							
One elective course (4L + 2T) or Two elective courses (2L + 1T)	9	One elective course (4L + 2T) or Two elective courses (2L + 1T)	9				
MD 4 Data Science in Practice							
Advanced Programming Course (2L)	3	Data Science in Context (2L)	3				
		MD 3: Advanced Programming in R					
		Visualization of Complex Data Structures (2L + 1T)	4.5	Advanced R: Theory, Concepts, and Paradigms (2L + 1T)	4.5		
	30		**30**		**30**		**30**

Advanced Statistics	Specialization	Data Science Tools	Independent work/presentation