

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

1 st semester		2 nd semester		3 rd semester		4 th semester	
Module	ECTS	Module	ECTS	Module	ECTS	Module	ECTS
MD 1: Statistical Theory Statistical Theory (4L + 2T)	9	MD 2: Advanced Statistical Learning Advanced Statistical Learning (4V + 2T)	9	MD 5: Project Work Advanced Case Studies (4P) or External Internship Seminar	8 4	MD 9: Master Thesis Master Thesis Advanced Seminar	30
MD 7: Applied Data Science One elective course (4L + 2T) or Two elective courses (2L + 1T)	9	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 Data Science in Context (2L) Advanced Programming Course (2L)	3 3	MD 8: Methodical Data Science 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 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

1 st semester		2 nd semester		3 rd semester		4 th semester	
Module	ECTS	Module	ECTS	Module	ECTS	Module	ECTS
MD 2: Advanced Statistical Learning Advanced Statistical Learning (4V + 2T)	9	MD 1: Statistical Theory Statistical Theory (4L + 2T)	9	MD 5: Project Work Advanced Case Studies (4P) or External Internship Seminar	8 4	MD 9: Master Thesis Master Thesis Advanced Seminar	30
MD 7: Applied Data Science One elective course (4L + 2T) or Two elective courses (2L + 1T)	9	MD 8 Methodical Data Science 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

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Independent work/presentation