

Master "Quantitative Decision Making in Economics and Management"

Stand: April 2026

Study Plan (Start Winter Semester)

1. Semester (WiSe)				SWS	ECTS	2. Semester (SuSe)				SWS	ECTS	3. Semester (WiSe)				SWS	ECTS	4. Semester (SuSe)			SWS	ECTS
core modules 6x (36 ECTS)	Mathematics/Statistics (Schank/Staal)			2+2	6																	
	Programming (Staal)			2+2	6																	
	Econometrics of Cross Section and Panel Data (Schank)			2+2	6																	
	Management Science/Operations Research (Irnich)			2+2	6																	
	Economic Decision Making and Strategic Interactions (Gerster)			2+2	6																	
Specialisationsmodules (min. 5 modules) (min. 30 ECTS; max. 42 ECTS)	Specialisation: Econometrics			Academic Skills					2+2	6	Economic Analysis of Micro Data (Schank)				2+2	6						
				Data Analysis Using Causal Econometrics (van Ewijk)					2+2	6	Data Governance (Werhan, FDZ Rentenversicherung)				2+2	6						
				Economic Methods and Applications with Non-Standard Outcome Variables (Schank)					2+2	6	Official Statistics and Survey Methods (Berg, DeStatis)				2+2	6						
				Advanced Time Series (Staal)					2+2	6	Informations- und Datenschutzrecht (Bäcker)				3	6						
				Introduction to Computational Statistics and Data Analysis					2+2	6												
	Specialisation: Management Science & Business Intelligence			Einführung in die Mehrebenen- und Panelanalyse (Nisic, FB02)*				Schiener	2	6												
				Contemporary Psychometrics in the Study of Human Capital (Federiakin)					1+1	6												
				*unregelmäßiges Angebot im WiSe und SoSe																		
				Data Science und Maschinelles Lernen: Einführung und Anwendung (Rothlauf)					2+2	6	Location Planning and Network Design (Irnich)				2+2	6						
				Programming Operations Research Models (Irnich)					2+2	6	Transportation II (Irnich)				4	6						
	Specialisation: Economic Behavior & Decision Making			Advanced Learning Strategies for AI Systems (Terhörst)					3	6	Data Analytics (Rothlauf, Görtz)				2+2	6						
				Applied AI Prototyping (Terhörst)					3	6												
				Datenbanken (Bouros, FB08)					2+2	6												
				Advanced Digital Economics (Hett)					2+2	6	Behavioral Measurement (Hett)				2+2	6						
				Behavioral and Experimental Economics (Schunk)					2+2	6	Advanced Corporate Finance (Gill)				2+2	6						
				Behavioral Finance (Gill)					2+2	6	Topics in Environmental Economics (Gerster)				2+2	6						
				Theoretical Labour Economics (Wälde)					4	6	Empirical Social Choice (Barbaro)				2+2	6						
				Economics of Education (Schunk)					2+2	6												
										Cross Channel Management (Emrich)				2+2	6							
				Corporate Risk Management (Koch)					2+2	6	Crafting Management Research (Tumasjan)				4	6						
Free Part (max. 2 modules; min. 0 ECTS; max. 12 ECTS)				Quantitative Methods in Epidemiology A (Uni-Medizin)				2 out of 4 modules	2+6	6	Empirical Corporate Governance (Koch)				2+2	6						
				Quantitative Methods in Epidemiology B (Uni-Medizin)					2+6	6	Quantitative Methoden der empirischen Sozialforschung für Fortgeschrittene (FB02):				2	6						
				Quantitative Methoden der empirischen Sozialforschung für Fortgeschrittene (FB02)					2	6	Quantitative Methods in Epidemiology: Prevention and Health Promotion (Vorlesung + Kleingruppen)					3						
				Asset Management (Leisen)					2+3	6	Training emotionaler und sozialer Kompetenzen (TESK)				2+2	6						
				International Financial Markets (Sauré)					2+2	6	Marketing Intelligence (Huber)				2+2	6						
				Market Research (Huber)					2+2	6	Governance and Internal Auditing (Koch)				3	6						
										Tätigkeit als Tutorin oder Tutor ^b				4	6							
										^b Modul wird auch im SoSe angeboten ^b kann auch in anderen Semestern belegt werden												
				Project Seminars (2x) (12 ECTS)			Applied Project Seminar								2	6	Applied Project Seminar				2	6
Master Thesis & Research Colloquium (30 ECTS)																Research Colloquium		2	5			
																Master Thesis			25			
ECTS in Total				30		30				30				30								