		Master Courses Applied Mathematics				
Courses	Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B		
in or	Continuous Optin	Continuous Optimization (Mastermath 6)		Scientific Computing (6)		
o WE				Pioneers of Applied Mathematics (5 EC)		
OR Courses	Discrete Optimi	Discrete Optimization (Mastermath 6 )		Applied Queueing models (5)		
	Game Theory (5)	Markov Decision Theory (5)	Mixed-Integer Optimization (5)			
	Measure & Probability (5)	Stochastic Processes (5)				
	Complex Networks (5)		Scheduling (Mastermath 6)			
	Limits to Computing (5)		Information Theory and Statistics (5)	Spatial Statistics (5)		
			Applied Statistics (Mastermath 6)			
			· · · · · · · · · · · · · · · · · · ·	,		
SACS Courses	Applied Functional Analysis (6)		Finite Element Methods: theory and applications (6)			
		Optimal Control (5)	, i	. ,		
	Systems & Control (6)		Introduction to Partial Differential Equations (5)	Time Series Analysis (5)		
	Nonlinear Dynamics (5)	Numerical Techniques for PDE (5)	Robust Control (5)			
	Measure & Probability (5)		Partial Differential Equations (6)			
			Inverse problems in imaging (Mastermath 6)			
MDS Courses s	Complex Networks (5)	Deep Learning (5)*		Graphical Models and causality (5)		
	Machine Learning I (5)*	Beep zearring (5)		Spatial Statistics (5)		
	Statistical Learning (5) *		<u> </u>	Spatial Statistics (5)		
	Data Science (5)	Data Science (5)	Data Science (5)	Time Series Analysis (5)		
		Optimization (6)	Succession (3)	Reinforcement learning (5)		
	Markov Decision theory (5)		-	Remotement learning (3)		
		Markov Decision theory (5)				
AldHealth Courses	Machine Learning I (5)**	Deep Learning (5)**	Mixed-Integer Optimization (5) ***	Graphical Models and causality (5)  ***		
	Statistical Learning (5)**	Markov Decision theory (5)**	Uncertainty quantification and data-driven modeling (5)  ***	Reinforcement learning (5) ***		
	Complex Networks (5)	Optimal Control (5)	Deep learning medical image analysis (5) ***			
	Applied Statistical Learning (5)	Optimization of Healthcare processes (5)	Information Theory and statistics (5)			
		Inverse problems in imaging (Mastermath 6)				
र्वे		Case studies in Data Science and AI (6-10 EC in total)				

Note that the course load for semester courses might not be split 50/50 over both quartiles. Check the timetable or mastermath site for more specific scheduling information.

Mandatory for all AM students	OR Three out of eight	Mandatory for SACS	MDS three out of six,including one	Mandatory for AI4Health **
			out of the three marked *	and also two out of five marked ***
recommended electives	OR electives	SACS electives	MDS electives	Al4Health electives

Capita Selecta AM: all tracks

To explore a specific topic within the field of Applied Mathematics one can contact a specific AM research chair and formulate as assignment with a studyload of 2-5 EC further details to be found on capita selecta registration form: https://www.utwente.nl/en/am/rules/form-capita-selecta.pdl