

Master Courses Applied Mathematics (CONCEPT)			
AM courses	Quarter 1A	Quarter 1B	Quarter 2A
	Quarter 2B		
	<u>Continuous Optimization (6)</u>		<u>Scientific Computing (6)</u>
			<u>Pioneers of Applied Mathematics (5 EC)</u>
OR Courses	<u>Discrete Optimization (6)</u>		<u>Queueing Theory (6)</u>
	<u>Game Theory (5)</u>	<u>Markov Decision Theory (5)</u>	<u>Optimization Modeling (5)</u>
	<u>Measure & Probability (5)</u>	<u>Stochastic Processes (5)</u>	
	<u>Complex Networks (5)</u>		<u>Scheduling (6)</u>
	<u>Limits to Computing (5)</u>		<u>Information Theory and Statistics (5)</u>
			<u>Spatial Statistics (5)</u>
			<u>Applied Statistics (6)</u>
			<u>Capita Selecta OR (5)</u>
SACS Courses	<u>Advanced linear programming (6)</u>		
	<u>Applied Functional Analysis (6)</u>		<u>Applied Finite Elements (6)</u>
		<u>Optimal Control (5)</u>	
	<u>Systems & Control (6)</u>		<u>Introduction to Partial Differential Equations (5)</u>
	<u>Time Series Analysis (5)</u>		
	<u>Nonlinear Dynamics (5)</u>	<u>Numerical Techniques for PDE (5)</u>	<u>Robust Control (5)</u>
	<u>Measure & Probability (5)</u>		<u>Partial Differential Equations (6)</u>
		<u>Random Signals and Filtering (5)</u>	
DS Courses	<u>Stochastic Differential Equations (6)</u>		
	<u>Data Science (5)</u>	<u>Data Science (5)</u>	<u>Data Science (5)</u>
		<u>Deep Learning (5)</u>	
	<u>Complex Networks</u>	<u>Markov Decision theory (5)</u>	<u>Information Theory and statistics</u>
	<u>Spatial Statistics</u>		
	<u>Discrete Optimization (6)</u>		<u>Random Signals and Filtering</u>
<u>Basic Machine Learning (5)</u>	<u>Advanced Machine learning (5)</u>	<u>Probabilistic programming (5)</u>	<u>Time Series Analysis (5)</u>
<u>Game Theory</u>	<u>Managing big data (5)</u>		

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.

Obligatory for all AM students	OR Three out of eight	Obligatory for SACS students	Obligatory for all DS students
	OR courses	SACS courses	DS three out of six
			DS electives