

## Course Programme Applied Mathematics 2015/2016

### Programme requirements:

- a) Continuous Optimization (6 EC) and Scientific Computing (6)
- b) Philosophy of Engineering 5 EC.
- c) In addition for the OR specialization a minimum of three courses out of a list of six have to be chosen; in addition for the SACS specialization three core courses are obligatory
- d) a minimum of 12 EC in national courses (offered via [www.mastermath.nl](http://www.mastermath.nl));
- e) electives so that the total number of EC's adds up to at least 60;
- f) 20 EC traineeship and 40 EC final project

Note. Depending on previous knowledge and the research area of your choice, the contact of your chair can add additional obligatory courses to your programme.

In the following table an overview of the courses is presented:

Mandatory courses for all students in red.

Mandatory courses for SACS students in blue.

Mandatory courses for OR students in green.

Elective courses in light blue (SACS) and light green (OR).

Master Courses Applied Mathematics			
Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
<a href="#">Continuous Optimization</a> (6)		<a href="#">Scientific Computing</a> (6)	
	Philosophy of engineering (5)		<a href="#">Pioneers of Applied Mathematics</a> (5 EC)
<a href="#">Discrete Optimization</a> (6)		<a href="#">Queueing Theory</a> (6)	
<a href="#">Game Theory</a> (5)	<a href="#">Markov Decision Theory</a> (5)		<a href="#">Networks Of Queues</a> (5)
<a href="#">Stochastic Processes</a> (6)			
<a href="#">Measure &amp; Probability</a> (6)		Scheduling (6)	
		<a href="#">Optimization Modeling</a> (5)	
		<a href="#">Applied Statistics</a> (2017) / <a href="#">Spatial Statistics</a> (2016)(6)	
<a href="#">Applied Functional Analysis</a> (6)		<a href="#">Optimal Control</a> (5)	
		<a href="#">Applied Finite Elements</a> (6)	
<a href="#">Time Series Analysis</a> (5)	<a href="#">Nonlinear Dynamics</a> (5)	<a href="#">Theory of Partial Differential Equations</a> (5)	<a href="#">Partial Differential Equations II</a> (5)
<a href="#">Systems &amp; Control</a> (6)		<a href="#">Robust Control</a> (5)	<a href="#">Hybrid Dynamical Systems</a> (5)
	<a href="#">Numerical Techniques for PDE</a> (5)	<a href="#">Partial Differential Equations I</a> (6)	
		<a href="#">Random Signals and Filtering</a> (5)	
		<a href="#">Stochastic Differential Equations</a> (6)	

OR Courses	Obligatory for all AM students	SACS Courses
OR Three out of Six		Obligatory for SACS students