

MSC (MATHEMATICAL MODELLING AND MACHINE LEARNING)

Programme Requirements

Code	Title	Credits
Students take 90 credits as follows:		
Part I ¹		
Students take 60 credits as follows:		
<i>Core Modules</i>		
AM6004	Numerical Methods and Applications	5
AM6005	Nonlinear Dynamics	5
AM6007	Scientific Computing with Numerical Examples	10
AM6015	Computational Techniques with Networks	5
AM6016	Dynamic Machine Learning with Applications	5
AM6017	Complex and Neural Networks	5
AM6020	Open Source Infrastructure for Modelling with Data	5
CS6421	Deep Learning	5
EE6024	Engineering Machine Learning Solutions	5
ST6040	Machine Learning and Statistical Analytics I	5
ST6042	Machine Learning and Statistical Analytics II	5
Part II		
<i>Dissertation</i>		
Students take 30 credits as follows:		
<i>Core Modules</i>		
AM6021	Dissertation in Mathematical Modelling and Machine Learning	30
Total Credits		90

¹ Students who have taken any of these modules in a previous degree must select alternative modules (subject to availability and timetabling) in consultation with the Programme Coordinator.

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.