

2011/12 Maths Modules - with lecturer.

Module Code	Module Title	Credits	Co-taught with	Sem	Lecturer(s) 2011/12
MATH0111	Elementary Differential Calculus (1)	10	MATH0131	1	Prof S B Cooper
MATH0131	Elementary Differential Calculus (2)	20	MATH0111	1	Prof S B Cooper
MATH0212	Elementary Integral Calculus	10		2	Prof C Read
MATH0360	Introduction to Applied Mathematics 1	10		1	Prof S Tobias
MATH0365	Foundation Probability and Statistics	10		1	Dr P Walker
MATH0370	Introduction to Applied Mathematics 2	10		2	Dr T Wagenknecht
MATH0380	Foundation Applied Mathematics for Business	10		2	Dr M Mobilia
MATH1010	Mathematics 1	25		1	Dr M Daws, Prof S Tobias
MATH1012	Mathematics 2	25		2	Prof S Falle
MATH1025	Number Systems	15		1	Prof J Truss
MATH1026	Sets, Sequences and Series	15		2	Dr M Speight
MATH1050	Calculus and Mathematical Analysis	10		1	Dr S Griffiths
MATH1055	Numbers and Vectors	10		1	Dr C Harris
MATH1060	Introductory Linear Algebra	10		2	Dr C Harris
MATH1225	Introduction to Geometry	10		1	Dr R Elwes
MATH1331	Linear Algebra with Applications	15		1	Prof C Read
MATH1400	Modelling with Differential Equations	10		2	Prof A Rucklidge
MATH1510	Financial Mathematics	15		2	Dr J Niesen
MATH1715	Introduction to Probability	10		1	Dr R Aykroyd
MATH1725	Introduction to Statistics	10		2	Dr A Baczkowski
MATH1920	Computational Maths	10		2	Dr R Sturman
MATH2015	Analysis 2	20		1&2	Prof J Wood & Dr K Houston
MATH2033	Rings, Polynomials and Fields	10		2	Prof P Martin
MATH2040	Mathematical Logic 1	10		1	Prof M Rathjen
MATH2051	Geometry of Curves and Surfaces	10		1	Dr J M Speight
MATH2080	Further Linear Algebra	10		1	Prof W Crawley-Boevey
MATH2090	Real and Complex Analysis	10		2	Dr A Parker
MATH2200	Linear Algebra 2	10		1	Dr P Schuster
MATH2210	Introduction to Discrete Mathematics	10		2	Dr D Lockett, Dr D Penazzi
MATH2340	The Mathematics of Music	10		1	Dr R Sturman
MATH2365	Vector Calculus	15		1	Dr O Chalyk
MATH2375	Linear Differential Equations and Transforms	15		2	Dr P Walker
MATH2391	Nonlinear Differential Equations	10		2	Prof A Mikhailov
MATH2410	Special Relativity	10		2	Prof S Komissarov
MATH2420	Multiple Integrals and Vector Calculus	10		1	Dr N Morrison
MATH2431	Fourier Series, PDEs and Transforms	10		2	Prof S Ruijsenaars
MATH2450	Mathematics for Geophysical Sciences 3	10		1	Dr G Lythe
MATH2490	Mathematics for Geophysical Sciences 4	10		2	Prof A Fordy
MATH2515	Financial Mathematics 2	10		1	Dr J Niesen
MATH2525	Financial Mathematics 3	10		2	Dr N Abourashchi
MATH2600	Numerical Analysis	10		1	Dr E Kersalé
MATH2620	Fluid Dynamics	10		2	Dr E Kersalé
MATH2640	Introduction to Optimisation	10		1	Prof C Jones
MATH2650	Calculus of Variations	10		1	Prof D Hughes
MATH2715	Statistical Methods	10		1	Dr A Baczkowski
MATH2735	Statistical Modelling	10		1	Dr A Gusnanto
MATH2740	Environmental Statistics	10		2	Dr P Thwaites

Module Code	Module Title	Credits	Co-taught with	Sem	Lecturer(s) 2011/12
MATH2750	Introduction to Markov Processes	10		2	Dr R Aykroyd
MATH2775	Survival Analysis	10		2	Dr L Bogachev
MATH2800	Mathematics into Schools	10		1&2	Dr M Messmer
MATH3000	Information Skills in Mathematics	10		1&2	Prof D Lesnic
MATH3015	History of Mathematics	15		2	Dr R Sturman / Dr K Houston / Prof C Taylor
MATH3021	Philosophy of Logic and Mathematics	20	MATH5021	2	Prof M Rathjen, Lecturer from Philosophy
MATH3024	Homotopy and Surfaces	15		2	Prof J Wood
MATH3033	Graph Theory	15	MATH5033	1	Prof H D Macpherson
MATH3044	Number Theory	15		2	Prof R Bielawski
MATH3071	Groups and Symmetry	15		1	Dr A Parker
MATH3082	Project in Pure Mathematics 1	15		1	Prof P Martin
MATH3083	Project in Pure Mathematics 2	15		2	Prof P Martin
MATH3113	Differential Geometry	15	MATH5113	2	Prof R Bielawski
MATH3123	Set Theory	15	MATH5124	1	Dr A Lewis
MATH3143	Combinatorics	15		2	Prof A Pillay
MATH3153	Coding Theory	15		2	Dr C Harris
MATH3163	Computability and Unsolvability	15	MATH5164	1	Prof S B Cooper
MATH3172	Algebra and Numbers	15		1	Dr C Harris
MATH3193	Algebras and Representations	15		1	Dr A Hubery
MATH3215	Hilbert Spaces and Fourier Analysis	15		2	Dr V Kisil
MATH3224	Topology	15		1	Dr P Schuster
MATH3232	Transformation Geometry	15		1	Prof J Truss
MATH3355	Hamiltonian Systems	15	MATH5356	2	Prof A Fordy
MATH3375	Hydrodynamic Stability	15	MATH5376	1	Prof D Hughes
MATH3385	Quantum Mechanics	15	MATH5386	1	Dr P Walker
MATH3397	Nonlinear Dynamics	15	MATH5398	1	Prof C Jones
MATH3414	Analytic Solutions of Partial Differentiation Equations	15		1	Prof D Lesnic
MATH3422	Project in Applied Mathematics	15		1	Dr R Sturman
MATH3423	Project in Applied Mathematics	15		2	Dr R Sturman
MATH3451	Introduction to Polimeric Fluids	15	MATH5452	2	Dr O Harlen, Dr D Read
MATH3457	Geophysical and Astrophysical Fluid Dynamics	15	MATH5457	2	Dr S Griffiths, Prof S Tobias
MATH3474	Numerical Methods	10		1	Prof M Kelmanson
MATH3475	Modern Numerical Methods	15	MATH5476	2	Prof M Kelmanson
MATH3501	Modelling with Fluids	10		1	Dr O Harlen
MATH3531	Cosmology	10		2	Prof S Komissarov
MATH3565	Mathematical Biology	15	MATH5566	1	Dr G Lythe
MATH3714	Linear Regression and Robustness	15	MATH5714	1	Dr P Thwaites
MATH3723	Statistical Theory	15		2	Prof A Veretennikov
MATH3733	Stochastic Financial Modelling	15		1	Prof A Veretennikov
MATH3752	Project in Statistics 1	15		1	Prof A Veretennikov
MATH3753	Project in Statistics 2	15		2	Prof A Veretennikov
MATH3772	Multivariate Analysis	10	MATH5772	1	Dr JP Gosling
MATH3802	Time Series	10	MATH5802	2	Dr J Voss
MATH3823	Generalised Linear Models	10	MATH5824	2	Prof J Kent
MATH3841	An Introduction to Hidden Markov Models	10	MATH5841	2	Prof W Gilks
MATH3880	Introduction to Statistics & DNA	10	MATH5880	1	Dr A Gusnanto
MATH5000M	Dissertation in Mathematics	60		Summer	Prof D Hughes

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MATH5003M	Assignment in Mathematics (30cr.)	30		1&2	Prof P Martin/Dr R Sturman/Prof A Veretennikov
MATH5004M	Assignment in Mathematics (40cr.)	40		1&2	Prof P Martin/Dr R Sturman/Prof A Veretennikov
MATH5015M	Linear Analysis 1	20		1	Dr V Kisil
MATH5021M	Philosophy of Logic and Mathematics	20	MATH3021	2	Prof M Rathjen, Lecturer from Philosophy
MATH5033M	Advanced Graph Theory	20	MATH3033	1	Prof H D Macpherson
MATH5113M	Advanced Differential Geometry	20	MATH3113	2	Prof R Bielawski
MATH5124M	Advanced Set Theory	20	MATH3123	1	Dr A Lewis
MATH5164M	Advanced Computability and Unsolvability	20	MATH3163	1	Prof S B Cooper
MATH5253M	Commutative Algebra and Algebraic Geometry	20		2	Dr A Hubery
MATH5300M	Applied Financial Modelling	15		2	Dr M Mobilia
MATH5310M	Mathematical Review	15		1	Prof R Poulson
MATH5315M	Applied Statistics and Probability	15		1	Dr A Baczkowski
MATH5320M	Discrete Time Finance	15		1	Dr G Aivaliotis
MATH5325M	Models in Actuarial Science	15		2	Dr L Bogachev
MATH5330M	Continuous Time Finance	15		2	Dr J Palczewski
MATH5340M	Risk Management	15		2	Dr G Aivaliotis
MATH5350M	Computations in Finance	15		2	Dr J Palczewski
MATH5356M	Advanced Hamiltonian Systems	20	MATH3355	2	Prof A Fordy
MATH5360M	Optimisation Methods for Finance	15		2	Dr G Aivaliotis
MATH5376M	Advanced Hydrodynamic Stability	20	MATH3375	1	Prof D Hughes
MATH5386M	Advanced Quantum Mechanics	20	MATH3385	1	Dr P Walker
MATH5398M	Advanced Nonlinear Dynamics	20	MATH3397	1	Prof C Jones
MATH5452M	Advanced Polymeric Fluids	20	MATH3451	2	Dr O Harlen, Dr D Read
MATH5457M	Advanced Geophysical and Astrophysical Fluid Dynamics	20	MATH3457	2	Dr S Griffiths, Prof S Tobias
MATH5476M	Advanced Modern Numerical Methods	20	MATH3475	2	Prof M Kelmanson
MATH5566M	Advanced Mathematical Biology	20	MATH3565	1	Dr G Lythe
MATH5714M	Linear Regression, Robustness and Smoothing	20	MATH3714	1	Dr P Thwaites
MATH5772M	Multivariate and Cluster Analysis	15	MATH3772	1	Dr JP Gosling
MATH5802M	Time Series and Spectral Analysis	15	MATH3802	2	Dr J Voss
MATH5824M	Generalised additive models	15	MATH3823	2	Prof J Kent
MATH5825M	Independent Learning and Skills Project	15		2	Dr S Barber
MATH5835M	Statistical Computing	15		1	Dr J Voss
MATH5841M	Hidden Markov Models and their application in Bioinformatics	15	MATH3841	2	Prof W Gilks
MATH5871M	Dissertation in Statistics	60		Summer	Dr S Barber
MATH5875M	Project in Statistics	15		1&2	Prof A Veretennikov
MATH5880M	Statistics and DNA	15	MATH3880	1	Dr A Gusnanto
MATH8001	Training in the Workplace/Year in Industry	120		1&2	Prof M Kelmanson
MATH9001	Year Abroad	120		1&2	Dr G Lythe