

DEPARTMENT OF MATHEMATICS EXAMINATION ARRANGEMENTS

HONOURS YEAR 1

Module Code	Module Title	Term	Exam Duration
MATH0003	Analysis 1	1	Two hours (January exam)
MATH0004	Analysis 2	2	Two hours
MATH0005	Algebra 1	1	Two hours (January exam)
MATH0006	Algebra 2	2	Two hours
MATH0007	Algebra for Joint Honours Students	2	Two hours
MATH0008	Applied Mathematics 1	1	Two hours (January exam)
MATH0009	Newtonian Mechanics	2	Two hours
MATH0010	Mathematical Methods 1	1	Two hours (January exam)
MATH0011	Mathematical Methods 2	2	Two hours

HONOURS YEAR 2

MATH0013	Analysis 3: Complex Analysis	1	Two hours (January exam)
MATH0014	Algebra 3: Further Linear Algebra	1	Two hours
MATH0015	Fluid Mechanics	1	Two hours
MATH0016	Mathematical Methods 3	1	Two hours (January exam)
MATH0051	Analysis 4: Real Analysis	2	Two hours
MATH0052	Geometry and Groups	2	Two hours
MATH0053	Algebra 4: Groups and Rings	2	Two hours
MATH0055	Mathematics of Electromagnetism and Special Relativity	2	Two hours
MATH0056	Mathematical Methods 4	2	Two hours
MATH0057	Probability and Statistics	2	Two hours
MATH0058	Computational Methods and Programming	2	Two hours
MATH0034	Number Theory	2	Two hours

HONOURS YEAR 3

MATH0017	Measure Theory	1	Three hours
MATH0018	Functional Analysis	2	Three hours
MATH0019	Multivariable Analysis	1	Three hours
MATH0020	Differential Geometry	2	Three hours
MATH0021	Commutative Algebra	2	Three hours
MATH0022	Galois Theory	1	Three hours
MATH0023	Algebraic Topology	1	Three hours
MATH0024	Geophysical Fluid Dynamics	2	Three hours
MATH0025	Mathematics For General Relativity	1	Three hours
MATH0026	Biomathematics	1	Three hours
MATH0027	Mathematical Methods 5	2	Three hours
MATH0028	Combinatorial Optimisation	2	Three hours
MATH0029	Graph Theory and Combinatorics	1	Three hours
MATH0030	Mathematical Ecology	1	Three hours
MATH0031	Financial Mathematics	2	Three hours
MATH0032	An Introduction to Mathematica	1	N/A - Mathematica tests
MATH0033	Numerical Methods	1	Three hours
MATH0035	Algebraic Number Theory	2	Three hours
MATH0036	Elliptic Curves	2	Three hours
MATH0037	Mathematical Logic	2	Three hours
MATH0038	History of Mathematics	2	Three hours
MATH0054	Analytical Dynamics	2	Three hours

HONOURS YEAR 4

MATH0065	Advanced Modelling Mathematical Techniques	1	Three hours
MATH0069	Probability	2	Three hours
MATH0070	Linear Partial Differential Equations	1	Three hours
MATH0071	Spectral Theory	1	Three hours
MATH0072	Riemannian Geometry	1	Three hours
MATH0073	Representation Theory	2	Three hours
MATH0074	Topology and Groups	1	Three hours
MATH0075	Lie Groups and Lie Algebras	1	Three hours
MATH0076	Algebraic Geometry	1	Three hours
MATH0077	Real Fluids	1	Three hours
MATH0078	Asymptotic Methods and Boundary Layer Theory	2	Three hours
MATH0079	Cosmology	2	Three hours
MATH0080	Waves and Wave Scattering	2	Three hours
MATH0082	Evolutionary Games and Population Genetics	2	Three hours
MATH0083	Prime Numbers and their Distribution	1	Three hours
MATH0084	Project in Mathematics	1/2	N/A - Project
MATH0086	Computational and Simulation Methods	1	Three hours
MATH0088	Quantitative and Computational Finance	1	Three hours
MATH0090	Elliptic Partial Differential Equations	2	Three hours
MATH0092	Variational Methods for Partial Differential Equations	2	Three hours
MATH0102	Applied Stochastic Methods	2	Three hours
MATH0104	Modular Forms	2	Three hours

ANCILLARY COURSES

MATH0012	Mathematical Methods for Arts and Sciences	1	Two hours
MATH0039	Differential and Integral Calculus	1	Two hours
MATH0040	Mathematics for Science 1	1	Two hours
MATH0041	Mathematics for Science 2	2	Two hours
MATH0042	Mathematical Methods in Chemistry	1	Two hours
MATH0043	Mathematics for Physics and Astronomy	2	Two hours
MATH0045	Calculus and Linear Algebra	1	Two hours
MATH0046	Calculus in Several Dimensions	2	Two hours
MATH0047	Advanced Linear Algebra	1	Two hours
MATH0048	Mathematical Analysis	2	Two hours
MATH0049	Mathematics for Engineers 1	1	Two hours
MATH0050	Logic	2	Two hours
MATH0101	Linear Algebra for Data Science	2	Two hours
MATH0103	Discrete Mathematics	1	Two hours