

Durham University Postgraduate Module Handbook

These programme regulations should be read in conjunction with the University's <u>core regulations for modular taught master's degrees, postgraduate diplomas and postgraduate certificates</u>.

MSc Mathematical Sciences (G1K509)

1. Location: Durham City

2. Duration: 12 months (full-time)

Programme structure

3. Candidates shall study and be assessed in the following modules:

		Credit value
Dissertation	<u>MATH51460</u>	60
Mathematical Sciences I	<u>MATH51860</u>	60
Mathematical Sciences II	MATH51760	60

For Mathematical Sciences I and II candidates must choose six modules from the following lists (Please note candidates can only take two courses from those marked with *):

List 1 Advanced Quantum Theory Algebraic Topology Codes and Cryptography* **Decision Theory*** Differential Geometry* Dynamical Systems* Galois Theory* General Relativity Mathematical Biology* Mathematical Finance Number Theory* Operations Research* Partial Differential Equations Quantum Information* Quantum Mechanics* Representation Theory Riemannian Geometry Statistical Methods*

Topics in Algebra and Geometry

List 2 (2019-2020)

Topology*

Analysis
Bayesian Statistics
Continuum Mechanics
Solitons
Stochastic Processes

List 3 (2020-2021)

Geometry
Probability
Topics in Statistics
Numerical Differential Equations
Statistical Mechanics

Lists 2 and 3 will be offered in alternate years. List 1 will run in both years.

Assessment, progression and award

4. Modules MATH 51860 and MATH 51760 will be assessed by written examinations.