

# MATHEMATICAL SCIENCES

## DIVISION OF MATHEMATICAL AND PHYSICAL SCIENCES

### Lecture List for Hilary Term 2010

There may be late changes and amendments to this Lecture List. For an up-to-date version, please check the Mathematical Institute Website:  
<http://www.maths.ox.ac.uk/notices/lecture-lists>

This version updated 25 January 2010

Events shown on this list are generally one hour long unless stated otherwise.

<i>Subject</i>	<i>Lecturer</i>	<i>Time*</i>	<i>Place</i>
<b>GRADUATE SEMINARS</b>			
Algebra Seminar	Prof. M J Collins, Prof. Rouquier and Prof. D Segal	T.5	Mathematical Institute, L2
Algebraic and Symplectic Geometry	Prof Joyce and Dr Szendroi	T.3.45	Mathematical Institute, L3
Analytic Topology in Maths and Computer Science	Prof. Abramsky, Dr P J Collins, Dr Knight, Prof. Priestley, Prof. Roscoe and Dr Suabedissen	W.4-5.30	Mathematical Institute, L3
Applied Dynamical Systems and Inverse Problems	Dr Moroz	Th.11-12:30	Mathematical Institute, DHSR3
Combinatorial Theory	Prof. McDiarmid and Prof. Scott	T.2:30-3:45[L3] T.4.30[SR2]	Mathematical Institute, L3, SR2
Computational Mathematics and Applications	Prof. Trefethen and Dr Dollar (RAL)	Th.2	Mathematical Institute, Seminar Room, 3 Worcester Street
Computing Laboratory Seminar	Prof. Gottlob	T.4:30	Computing Laboratory
Differential Equations and Applications	Prof. Howison, Prof. J Ockendon and Prof. Chapman	Th.4.30	Mathematical Institute, DHSR1 (weeks 1-6) DHSR3 (weeks 7-8)
Functional Analysis	Prof. Batty	T.5	Mathematical Institute, L3
Geometry and Analysis	Prof. Hitchin	M.2:15	Mathematical Institute, L3
Geophysical and Non-linear fluid dynamics	Prof. Read and Dr Moroz	T.2.15	Atmospheric Physics
Junior Applied Mathematics	Mr C Yates	T.1 (even weeks)	Mathematical Institute, DHSR1
Junior Geometric Group Theory	Mr Kielak	T.4	Mathematical Institute, SGSR1
Junior Geometry and Topology Seminar	Mr Schlueter	Th.12-1.30	Mathematical Institute, SGSR1
Junior Logic	Mr W Anscombe	M.3	Mathematical Institute, SR2
Junior Number Theory	T.B.C	M.4	Mathematical Institute, SGSR1

Logic	Dr Koenigsmann	Th.5	Mathematical Institute, L3
Mathematical Behavioural Finance	Prof. Zhou	W.3	Oxford-Man Institute of Quantitative Finance, Eagle House, Walton Well Road.
Mathematical Biology	Prof. Maini, Dr Baker and Dr Gaffney	F.2	Mathematical Institute, L3
Mathematical Finance Internal Seminar	Prof. Zhou	Th.1 (odd weeks)	Mathematical Institute, DHSR1 (weeks 1,3,5) L3 (week 7)
Mathematical Finance Nomura	Prof. Zhou	F.2:15	Mathematical Institute, DHSR1 (weeks 1-6), L1 (weeks 7-8)
Mathematical Genetics and Bioinformatics	Dr Myers	T.4.30	Oxford Centre for Gene Function, Seminar Room
Mathematical Geoscience	Dr Ellis & Dr Peppin	F.2:30 (even weeks)	Mathematical Institute, DHSR3
Number Theory	Prof. Heath-Brown	Th.4	Mathematical Institute, L3
Oxford Advanced Seminar on Informatic Structures	Dr Sadrzadeh	F.2	Computing Laboratory
Partial Differential Equations	Dr Capdeboscq	M.5	Gibson Building Seminar Room
Quantum Field Theory/Relativity	Dr Hannabuss and Dr Tsou	T.12	Mathematical Institute, L3
Representation Theory	Dr Erdmann and Dr Henke	Th.2:30	Mathematical Institute, L3
Statistics Applied Probability and Operational Research	Dr Steinsaltz	Th.2:15 (weeks 1.3.4.5.6)	Statistics Department
Statistics General Seminar	Dr Steinsaltz	Th.2:15 (weeks 2 & 8)	Statistics Department
Statistics Graduate Seminar	Prof. Reinert and Prof. Sir David Cox	Th.3:45(weeks 1.3.4.5.6)	Statistics Department
Statistics Graduate Student Presentations	Dr Clifford	Th.2:15 (week 7)	Statistics Department
Stochastic Analysis	Prof. Lyons	M.2.15-3.45, 3.45-5.00	Oxford-Man Institute of Quantitative Finance, Eagle House, Walton Well Road
String Theory	Prof. Candelas and Dr de la Ossa	M.12	Mathematical Institute, L3
String Theory Discussion Seminar	Dr de la Ossa	W.12	F20
Topology	Prof. Tillmann and Prof. Lackenby	M.3.45	Mathematical Institute, L3
Twistor Theory Seminar	Dr Kremnizer and Prof. Rouquier	M.10-12	Mathematical Institute, SGSR1

<b>WORKSHOPS</b>			
Industrial and Interdisciplinary Workshops	Dr Gower and Dr Breward	F.9-2	Mathematical Institute, DHSR1 (weeks 1-6, 8-9) DHSR3 (week 7)
<b>GRADUATE WORKSHOPS</b>			
Stochastic Analysis	Prof. Lyons	T.11-1	Oxford-Man Institute of Quantitative Finance, Eagle House, Walton Well Road.
<b>ADVANCED CLASSES</b>			
Algebra	Dr Craven	T.2	Mathematical Institute, SGSR1 (odd weeks) T14 (even weeks)
Logic	Prof. Zilber	Th.11	Mathematical Institute, SGSR2
Junior Representation Theory	Dr Craven	W.4	Mathematical Institute, SGSR1
<b>GRADUATE LECTURES</b>			
Topics in Profinite Groups	Prof. D Segal	W.2-4	Mathematical Institute, SGSR1
Computing with Finitely Presented Groups	Prof. Vaughan-Lee	T.10, W.11	Mathematical Institute, L3
Representations of Algebraic Groups Over Finite Fields	Prof. Rouquier	F.2-4	Mathematical Institute, SGSR1
Nonlinear Partial Differential Equations	Prof. Chen	W.4-6	Gibson Building Seminar Room
<b>TAUGHT COURSE CENTRE</b>			
<p>The Taught Course Centre is a collaboration between the Mathematics Departments at the Universities of Bath, Bristol, Imperial, Oxford and Warwick. It aims to offer approximately 25 graduate level courses over the academic year. Access grid technology will be used so that audiences in all five universities can participate in the lectures. Graduate students should register in advance in order to attend the lectures. For more information about the Taught Course Centre, and for their lecture timetable, please see the website at <a href="http://tcc.maths.ox.ac.uk/">http://tcc.maths.ox.ac.uk/</a></p>			
<b>M.Sc. AND DIPLOMA IN APPLIED STATISTICS</b>			
<i>To follow</i>			
<b>M.Sc. MATHEMATICAL AND COMPUTATIONAL FINANCE</b>			
Levy Processes and Finance	Dr Winkel	M.W.12	Mathematical Institute, L2
Stochastic Calculus and Fixed Income Markets	Dr Hambly	T.Th.12	Mathematical Institute, DHSR1 (weeks 1-6,8), L2 (week 7)
Financial Derivatives 2	Dr Obloj	T.Th.11	Mathematical Institute, DHSR1(weeks 1-6, 8), L3 (week 7)
Numerical Methods 2	Prof. Giles & Dr Reisinger	M.2 (weeks 1-8) Th.2 (weeks 1-7) W.9 (week 8 only)	Mathematical Institute, DHSR1 (weeks 1-6,8), Seminar Room, 3 Worcester Street (M.2 week 7 only), DHSR3 (Th.2 week 7 only).

Stochastic Control and Dynamic Asset Allocation	Prof. Zhou	M.9 (weeks 1-8) Th.9 (weeks 1-7) W. 10 (week 8 only)	Mathematical Institute, DHSR1 (weeks 1-6,8), L3 (week 7)
<b>M.Sc IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING</b>			
<b>CORE</b>			
A2 Applied Partial Differential Equations	Dr Norbury	M.W.2	Mathematical Institute, L2
A2 Further Applied Partial Differential Equations	Dr Moroz	W.12 [L3], Th.3 [L2] (weeks 5-8)	Mathematical Institute, L2, L3
B2 Finite Element Methods for Partial Differential Equations	Dr Wathen	T.12, F.9	Computing Laboratory
Case Studies in Mathematical Modelling	Dr Oliver and Dr Muench	F.12 (weeks 1-2) F.12-2 (weeks 7-8)	Mathematical Institute, L3
Case Studies in Scientific Computing	Dr K. Gillow	M.9 (week 1 only)	Mathematical Institute, L3
Introduction to LaTeX	Dr Schlackow	Th.5(week 1 only)	Mathematical Institute, L1
<b>SPECIAL TOPICS</b>			
Applied Complex Variables	Prof. Chapman	M.11, F.3	Mathematical Institute, L2
Continuous Optimisation	Dr Robinson	T.11, Th.10	Computing Laboratory
Elasticity and Plasticity	Dr Majumdar	T.4, F.5	Mathematical Institute, L1
Mathematical Methods for Signal Processing	Dr Orphanidou and Dr Drobnyak	W.11, F.2 (weeks 1-6)	Mathematical Institute, L1
Mathematical Models of Financial Derivatives	Dr Jin	M.10[L2], W.10[L1]	Mathematical Institute, L2, L1
Mathematical Physiology	Prof. Bressloff	Th.12 (weeks 2-8)[L1] F.10 (week 1 only)[L2] F.4 [L2, L3 week 7]	Mathematical Institute, L1, L2, L3
Nonlinear Systems	Dr Porter	M.12, T.5	Mathematical Institute, L1
Numerical Solution of Differential Equations II	Dr Sobey	W.9, F.11	Computing Laboratory
Stochastic Modelling of Biological Processes	Dr Erban	M.W.3 (weeks 1-6)	Mathematical Institute, DHSR1
Waves and Compressible Flow	Dr Whittaker	M. 4 (week 2 only) T.9 (weeks 1-8) Th.9 (weeks 1-2, 4-8)	Mathematical Institute, L2
<b>M.Sc IN COMPUTER SCIENCE</b>			
<b>Schedule A</b>			
Compilers	Prof. Kwiatkowska	M.W.11 T.5 (week 2 only)	Computing Laboratory
Concurrency	Prof. Roscoe	T.Th.11	Computing Laboratory

Concurrent Programming	Dr Lowe	M.12 (weeks 1 and 2 only) T.Th.10	Computing Laboratory
<b>Schedule B</b>			
Computational Complexity	Dr Kreutzer	W.F.10	Computing Laboratory
Computer Security	Mr Sufrin	T.Th.9	Computing Laboratory
Intelligent Systems II	Dr Baltag	M.12 (weeks 4, 5, 7, 8) T.Th.2 (weeks 1, 3, 4, 5, 7, 8)	Computing Laboratory
Logic of Multi-agent Information Flow	Dr Sadrzadeh	T.Th.12	Computing Laboratory
Machine Learning	Dr Palade	F.2-4	Computing Laboratory
<b>Schedule C</b>			
Automata, Logic and Games	Prof. Ong	M.W.4	Computing Laboratory
Database System Implementation	Dr Olteanu	M.10 (weeks 1-6,8) W.12 (weeks 1-6, 8) F.12 (weeks 1-6)	Computing Laboratory
Information Retrieval	Dr Crook	M.T.W.3, F.11	Computing Laboratory
Quantum Computer Science	Dr Doering	W.5, Th.4-6	Computing Laboratory
Requirements	Dr Jirotko	M.W.2	Computing Laboratory
Software Verification	Dr Kroening	W.F.9	Computing Laboratory
Theory of Data and Knowledge Basis	Prof. Gottlob	M5, Th.3	Computing Laboratory
<b>M.Sc IN MATHEMATICS AND THE FOUNDATIONS OF COMPUTER SCIENCE</b>			
<b>Section A: Mathematical Foundations</b>			
<b>Schedule I</b>			
Algebraic Number Theory	Prof. Flynn	M.3, T.4	Mathematical Institute, L2
Axiomatic Set Theory	Prof. Zilber	T.2 [L2], F.4 [SGSR1]	Mathematical Institute, L2, SGSR1
Group Theory	Dr Grabowski	T.3, F.2	Mathematical Institute, L2
Model Theory	Dr Koenigsmann	W.3, F.9	Mathematical Institute, L3
<b>Schedule II</b>			
Representation Theory of Semisimple Lie Algebras	Dr Kremnizer	M.9 [SGSR1] , F.5 [L3]	Mathematical Institute, SGSR1, L3
Representation Theory of Symmetric Groups	Dr Erdmann	M.11, Th.10	Mathematical Institute, L3
<b>Section B: Applicable Theories</b>			
<b>Schedule I</b>			
Computational Complexity	Dr Kreutzer	W.F.10	Computing Laboratory
Concurrency	Prof. Roscoe	T.Th.11	Computing Laboratory

Logic of Multi Agent Flow	Dr Sadrzadeh	T.Th.12	Computing Laboratory
<b>Schedule II</b>			
Automata, Logic and Games	Prof. Ong	M.W.4	Computing Laboratory
Computing with Finitely Presented Groups	Prof. Vaughan-Lee	T.10, W.11	Mathematical Institute, L3
Elliptic Curves	Prof. Heath-Brown	M.12 [SGSR1], Th.12[L3]	Mathematical Institute, SGSR1, L3
Probabilistic Combinatorics	Prof. Riordan	Th.2, F.12	Mathematical Institute, L2
Quantum Computer Science	Dr Doering	W.5, Th.4-6	Computing Laboratory
Theory of Data and Knowledge Bases	Prof. Gottlob	M5, Th.3	Computing Laboratory
<b>MATHEMATICS</b>			
<b>Moderations</b>			
A: Linear Algebra	Dr Neumann	T.F.11 (weeks 1-4)	University Museum
A: An Introduction to Groups, Rings and Fields	Prof. Priestley	T.F.11 (weeks 5-8)	University Museum
B: Analysis II:	Dr Dyson	W.Th.12	University Museum
C: Probability	Dr Marchini	M.T.12 (weeks 1-4)	University Museum
D: Fourier Series and Two Variable Calculus	Dr Capdeboscq	M.Th.11	University Museum
D: Partial Differential Equations in Two Dimensions and Applications	Dr Day	W.11 F.12	University Museum
D: Statistics	Prof. Silverman	M.T.12 (weeks 5-8)	University Museum
MAPLE	Dr Wilkins	M.2 (weeks 1 and 3 only)	University Museum
<b>Part A</b>			
Introduction to Fields	Dr Kremnizer	M.W.2 (weeks 1-4)	Mathematical Institute, L1
Group Theory	Dr Szendroi	M.W.2 (weeks 5-8)	Mathematical Institute, L1
Integration	Prof. Etheridge	W.10, F.11	Mathematical Institute, L2
Topology	Prof. Drutu	T.Th.3	Mathematical Institute, L1
Calculus of Variations	Prof. Tod (weeks 1-4)	T.Th.2	Mathematical Institute, L1
Classical Mechanics	Prof. Tod (weeks 5-8)	T.Th.2	Mathematical Institute, L1
Quantum Theory	Dr Sparks	F.4	Mathematical Institute, L1
Fluid Dynamics and Waves	Dr Howell	M.F.10	Mathematical Institute, L1
Probability	Dr Laws & Dr M. Lunn	M.9 (weeks 1, 3-8) T.12 (week 2 only) W.9 (weeks 1-8)	Mathematical Institute, L2
Statistics	Dr Myers	M.W.3	Mathematical Institute, L1

Numerical Analysis	Prof. Wendland	T.Th.9	Computing Laboratory
Introduction to LaTeX	Dr Schlackow	Th.5(week 1 only)	Mathematical Institute, L1
Jobs for Mathematicians	Mrs Bird	M.4-6 (week 4 only)	Mathematical Institute, L2
<b>Part B</b>			
B1b Set Theory	Dr Knight	W.3, Th.4	Mathematical Institute, L2
B2b Group Theory	Dr Grabowski	T.3, F.2	Mathematical Institute, L2
B3b Algebraic Curves	Prof. Joyce	M.11. T.9	Mathematical Institute, L1
B4b Hilbert Spaces	Prof. Batty	M.F. 9	Mathematical Institute, L1
B5b Applied Partial Differential Equations	Dr Norbury	M.W.2	Mathematical Institute, L2
B6b Waves and Compressible Flow	Dr Whittaker	M. 4 (week 2 only) T.9 (weeks 1-8) Th.9 (weeks 1-2, 4-8)	Mathematical Institute, L2
C7.1b Quantum Theory and Quantum Computers	Dr Hannabuss	W.Th.11	Mathematical Institute, L2
C7.2b General Relativity I	Prof. Chrusciel	T.10,W.9	Mathematical Institute, L1
B8b Nonlinear Systems	Dr Porter	M.12, T.5	Mathematical Institute, L1
B9b Algebraic Number Theory	Prof. Flynn	M.3, T.4	Mathematical Institute, L2
B10b Mathematical Models of Financial Derivatives	Dr Jin	M.10[L2], W.10[L1]	Mathematical Institute, L2, L1
B21b Numerical Solutions of Differential Equations II	Dr Sobey	W.9, F.11	Computing Laboratory
C3.2b Differentiable Manifolds	Prof. Hitchin	T.12 [SGSR2], F.3[L3]	Mathematical Institute, SGSR2, L3
OBS1b Applied Statistics	Dr Meinshausen	Th.11, F.12 (weeks 1-5)	Department of Statistics
OBS3b Statistical Lifetime-Models	Dr Steinsaltz	T.Th.10	Mathematical Institute, L2
OBS4b Actuarial Science II	Mr Clarke	T.11,W.4	Mathematical Institute, L2
OCS1b Design and Analysis of Algorithms	Dr Nickau	T.Th.9	Computing Laboratory
N101: History of Philosophy: Locke	Dr Lodge	T.10	Faculty of Philosophy, 10 Merton Street
N101: History of Philosophy: Hume	Dr Kail	Th.10	Examination Schools
Introduction to LaTeX	Dr Schlackow	Th.5(week 1 only)	Mathematical Institute, L1
*Projects: Some points and reminders about writing mathematics	Prof. Heath-Brown	W.5 (week 4 only)	Mathematical Institute, L2
Jobs for Mathematicians	Mrs Bird	M.4-6 (week 4 only)	Mathematical Institute, L2
*These lectures will be useful to students offering an Extended Essay or Dissertation.			

<b>Part C</b>			
C1.1b Model Theory	Dr Koenigsmann	W.3, F.9	Mathematical Institute, L3
C1.2b Axiomatic Set Theory	Prof. Zilber	T.2 [L2], F.4 [SGSR1]	Mathematical Institute, L2, SGSR1
C2.1b Representation Theory of Symmetric Groups	Dr Erdmann	M.11, Th.10	Mathematical Institute, L3
C2.2 Representation Theory of Semisimple Lie Algebras	Dr Kremnizer	M.9 [SGSR1], F.5 [L3]	Mathematical Institute, SGSR1, L3
C3.2b Differentiable Manifolds	Prof. Hitchin	T.12[SGSR2], F.3[L3]	Mathematical Institute, SGSR2, L3
C3.3b Groups, Trees and Hyperbolic Spaces	Dr Papazoglou	T.3, F.2	Mathematical Institute, SGSR2
C4.1b Banach and C*-Algebras	Dr Edwards	W.10[L3], F.11[L1]	Mathematical Institute, L3, L1
C5.1b Fixed Point Methods for Nonlinear PDEs	Prof. Neithammer	M.10, T.9	Mathematical Institute, L3
C5.2b Calculus of Variations	Prof. Seregin	M.3 [SGSR1], W.2[L3]	Mathematical Institute SGSR1, L3
C6.2b Elasticity and Plasticity	Dr Majumdar	T.4, F.5	Mathematical Institute, L1
C6.3b Applied Complex Variables	Prof. Chapman	M.11, F.3	Mathematical Institute, L2
C7.1b Quantum Theory and Quantum Computers	Dr Hannabuss	W.Th.11	Mathematical Institute, L2
C7.2b General Relativity I	Prof. Chrusciel	T.10,W.9	Mathematical Institute, L1
C7.4b Theoretical Physics II	Prof. Chalker and Dr Lukas	M.9, W.10, Th.9	Department of Physics
C8.1b Mathematical Physiology	Prof. Bressloff	Th.12 (weeks 2-8)[L1] F.10 (week 1 only)[L2] F.4 [L2, L3 week 7]	Mathematical Institute, L1, L2, L3
C9.1b Elliptic Curves	Prof. Heath-Brown	M.12 [SGSR1], Th.12[L3]	Mathematical Institute, SGSR1, L3
C10.1b Brownian Motion in Complex Analysis	Dr Cass	Th.3, F.10	Mathematical Institute, SGSR1
C11.1b Probabilistic Combinatorics	Prof. Riordan	Th.2, F.12	Mathematical Institute, L2
C12.1b Continuous Optimisation	Dr Robinson	T.11, Th.10	Computing Laboratory
C12.2b Finite Element Methods for Partial Differential Equations	Dr Wathen	T.12, F.9	Computing Laboratory
MS1b Statistical Data Mining	Dr Meinshausen	M.4, T.3	Department of Statistics
MS2b Stochastic Models in Mathematical Genetics	Prof. Griffiths and Dr Myers	M.5, T.2	Department of Statistics
MS3b Levy Processes and Finance	Dr Winkel	M.W.12	Mathematical Institute, L2
MS5b High-throughput Data	Dr Clifford	M.2, Th.9	Department of Statistics

Analysis			
CCS3b Quantum Computer Science	Dr Doering	W.5, Th.4-6	Computing Laboratory
CCS4b Automata, Logics and Games	Prof. Ong	M.W.4	Computing Laboratory
Rise of Modern Logic	Dr Halbach	T.11	Examination Schools
Introduction to LaTeX	Dr Schlackow	Th.5(week 1 only)	Mathematical Institute, L1
Projects: Some points and reminders about writing mathematics	Prof. Heath-Brown	W.5 (week 4 only)	Mathematical Institute, L2
Jobs for Mathematicians	Mrs Bird	M.4-6 (week 4 only)	Mathematical Institute, L2
<b>“Extra” Part C subjects</b>			
[Note: No “Extra” Part C subjects are planned for HT 2010]			
<b>COMPUTER SCIENCE</b>			
<b>Moderations</b>			
CS1 Design and Analysis of Algorithms	Dr Nickau	T.Th.9	Computing Laboratory
CS2 Imperative Programming I	Dr Spivey	M.W.10 W.11 (weeks 2-8)	Computing Laboratory
CS3 Linear Algebra	Dr Kay	F.10-12 (weeks 1-4)	Computing Laboratory
CS4 Logic and Proof	Dr Kreutzer	W.F.12	Computing Laboratory
Probability	Dr Marchini	M.T.12 (weeks 1-4)	University Museum
<b>MATHEMATICS AND COMPUTER SCIENCE</b>			
<b>Moderations</b>			
CS1 Design and Analysis of Algorithms	Dr Nickau	T.Th.9	Computing Laboratory
CS2 Imperative Programming I	Dr Spivey	M.W.10 W.11 (weeks 2-8)	Computing Laboratory
Linear Algebra	Dr Neumann	T.F.11 (weeks 1-4)	University Museum
Probability	Dr Marchini	M.T.12 (weeks 1-4)	University Museum
An Introduction to Groups, Rings and Fields	Prof. Priestley	T.F.11 (weeks 5-8)	University Museum
Analysis II	Dr Dyson	W.Th.12	University Museum
<b>COMPUTER SCIENCE</b>			
<b>Part A</b>			
Advanced Data Structures and Algorithms	Dr Worrell	W.F.12	Computing Laboratory
Compilers	Prof. Kwiatkowska	M.W.11	Computing Laboratory

		T.5 (week 2 only)	
Concurrency	Prof. Roscoe	T.Th.11	Computing Laboratory
Concurrent Programming	Dr Lowe	M.12 (weeks 1 and 2 only) T.Th10.	Computing Laboratory
Numerical Analysis	Prof. Wendland	T.Th.9	Computing Laboratory
<b>MATHEMATICS &amp; COMPUTER SCIENCE</b>			
<b>Part A</b>			
Concurrency	Prof. Roscoe	T.Th.11	Computing Laboratory
Logic and Proof	Dr Kreuzer	W.F.12	Computing Laboratory
Numerical Analysis	Prof. Wendland	T.Th.9	Computing Laboratory
[In addition, the lectures above for Mathematics Part A are applicable.]			
<b>COMPUTER SCIENCE, MATHEMATICS &amp; COMPUTER SCIENCE</b>			
<b>Part B</b>			
<i>Schedule B1</i>			
Advanced Data Structures and Algorithms	Dr Worrell	W.F.12	Computing Laboratory
Compilers	Prof. Kwiatkowska	M.T.11 T.5 (week 2 only)	Computing Laboratory
Concurrent Programming	Dr Lowe	M.12 (weeks 1 and 2 only) T.Th10.	Computing Laboratory
Numerical Analysis	Prof. Wendland	T.Th.9	Computing Laboratory
<i>Schedule B2</i>			
Computational Complexity	Dr Kreuzer	W.F.10	Computing Laboratory
Computer Security	Mr Sufrin	T.Th.9	Computing Laboratory
Geometric Modelling	Dr Voiculescu	T.Th.11	Computing Laboratory
Intelligent Systems II	Dr Baltag	M.12 (weeks 4, 5, 7, 8) T.Th.2 (weeks 1, 3, 4, 5, 7, 8)	Computing Laboratory
Logic of Multi-Agent Information Flow	Dr Sadrzadeh	T.Th.12	Computing Laboratory
Numerical Solution of Differential Equations II	Dr Sobey	W.9, F.11	Computing Laboratory
Lectures under Mathematics Part B: B1, B2, B4, B5, B9 and B11a are applicable. If you wish to offer an additional Maths Part B subject under this Schedule, please contact the Academic Administrator, Computing Laboratory, for details.			
<b>Part C</b>			
Automata, Logic and Games	Prof. Ong	M.W.4	Computing Laboratory
Database System Implementation	Dr Olteanu	M.10 (weeks 1-6,8) W.12 (weeks 1-6, 8) F.12 (weeks 1-6)	Computing Laboratory
Information Retrieval	Dr Crook	M.T.W.3, F.11	Computing Laboratory

Quantum Computer Science	Dr Doering	W.5, Th.4-6	Computing Laboratory
Requirements	Dr Jirotko	M.W.2	Computing Laboratory
Software Verification	Dr Kroening	W.F.9	Computing Laboratory
Theory of Data and Knowledge Bases	Prof. Gottlob	M5, Th.3	Computing Laboratory

<b>MATHEMATICS AND PHILOSOPHY</b>			
<b>Moderations</b>			
<b>Mathematics:</b>			
A: Linear Algebra	Dr Neumann	T.F.11 (weeks 1-4)	University Museum
A: An Introduction to Groups, Rings and Fields	Prof. Priestley	T.F.11 (weeks 5-8)	University Museum
B: Analysis II:	Dr Dyson	W.Th.12	University Museum
[Papers A and B are compulsory papers for Honour Moderations in Mathematics and Philosophy.]			
<b>Philosophy:</b>			
General Philosophy	Dr Allen and Dr Spener	M.12	Examination Schools
Elements of Deductive Logic	Dr Eagle	T.12	Faculty of Philosophy, 10 Merton Street
<b>Part A Mathematics:</b>			
Introduction to Fields	Dr Kremnizer	M.W.2 (weeks 1-4)	Mathematical Institute, L1
Group Theory	Dr Szendroi	M.W.2 (weeks 5-8)	Mathematical Institute, L1
Integration	Prof. Etheridge	W.10, F.11	Mathematical Institute, L2
Topology	Prof. Drutu	T.Th.3	Mathematical Institute, L1
<b>Part B Mathematics</b>			
B1b Set Theory	Dr Knight	W.3, Th.4	Mathematical Institute, L2
[These lectures are for the compulsory subject "Foundations". Other courses listed under mathematics Part B can be taken: B2, B3, B4, B9 (schedule 1) and O1, C3.2b (schedule 2).]			
<b>Part B Philosophy:</b>			
N101: History of Philosophy: Locke	Dr Lodge	T.10	Faculty of Philosophy, 10 Merton Street
N101: History of Philosophy: Hume	Dr Kail	Th.10	Examination Schools
N122: Philosophy of Mathematics	Dr Isaacson	W.F.12	Faculty of Philosophy, 10 Merton Street
[For further Philosophy lectures, please consult the Philosophy lecture list]			
<b>Part C Mathematics: Logic</b>			
C1.1b Model Theory	Dr Koenigsmann	W.3, F.9	Mathematical Institute, L3
C1.2b Axiomatic Set Theory	Prof. Zilber	T.2[L2], F.4[SGSR1]	Mathematical Institute, L2, SGSR1
[See Philosophy list for Philosophy subjects which may be offered.]			

<b>MATHEMATICS AND STATISTICS</b>			
<b>Moderations</b>			
The Lectures above for MATHEMATICS Moderations all apply.			
<b>Part A</b>			
Graph Theory	Prof. Griffiths	T.Th.11 (weeks 1-4)	Mathematical Institute, L1
Statistical Programming	Dr Marchini	F.2-4 (weeks 3-8)	Oxford University Computing Service, Banbury Road
In addition, the lectures above for Mathematics Part A apply.			
<b>Part B</b>			
BS1b Applied Statistics	Dr Meinshausen	Th.11, F.12 (weeks 1-5)	Department of Statistics
BS3b Statistical Lifetime-Models	Dr Steinsaltz	T.Th.10	Mathematical Institute, L2
BS4b Actuarial Science II	Mr Clarke	T.11,W.4	Mathematical Institute, L2
[Other courses listed under Mathematics Part B can be taken: B1, B2, B3, B4, B5, B6, B8, B9, B10, C3.2.]			
<b>Part C</b>			
MS1b Statistical Data Mining	Dr Meinshausen	M.4, T.3	Department of Statistics
MS2b Stochastic Models in Mathematical Genetics	Prof. Griffiths and Dr Myers	M.5, T.2	Department of Statistics
MS3b Levy Processes and Finance	Dr Winkel	M.W.12	Mathematical Institute, L2
MS5b High-throughput Data Analysis	Dr Clifford	M.2, Th.9	Department of Statistics
[Other courses under Mathematics Part C can also be taken.]			

**FOOTNOTE REFERENCES**

- \* Lectures begin on the first day possible after the beginning of Full Term (Sunday, 17 January), unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1-8) unless otherwise stated.