

# MATHEMATICAL SCIENCES

## DIVISION OF MATHEMATICAL AND PHYSICAL SCIENCES

### Lecture List for Hilary Term 2012

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 20 January 2012

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 and Prof. Rouquier	T.5	Mathematical Institute, L2
Algebraic and Symplectic Geometry	Prof. Joyce and Dr Szendroi	T.3.45	Mathematical Institute, L3
Analytic Topology in Mathematics 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	T.11-12.30	Mathematical Institute, DHSR3
Aspects of Mathematical Foundations of Physics	Prof. Zilber	W.2	Department of Computer Science
Combinatorial Theory	Prof. McDiarmid and Prof. Scott	T.2.30-3.45[L3] T.4.30[SGSR2]	Mathematical Institute, L3, SGSR2
Computational Mathematics and Applications	Prof. Trefethen and Dr Thorne (RAL)	Th.2	Mathematical Institute, Gibson Building RI.0.48
Department of Computer Science Seminar	Prof. Gottlob	T.4.30	Department of Computer Science
Industrial and Applied Mathematics	Dr Porter	Th.4	Mathematical Institute, DHSR1
Functional Analysis	Prof. Batty	T.5	Mathematical Institute, L3
Geometry and Analysis	Prof. Hitchin	M.2.15	Mathematical Institute, L3
Geophysical and Nonlinear Fluid Dynamics	Prof. Read and Dr Moroz	T.2.15	Atmospheric Physics
Junior Applied Mathematics	Miss Warneford	T.1.15 (even weeks)	Mathematical Institute, DHSR1
Junior Geometric Group Theory	Mr Sisto	W.4	Mathematical Institute, SGSR2
Junior Geometry and Topology Seminar	Mr Roser	Th.1	Mathematical Institute, SGSR2
Junior Logic	Mr Anscombe	T.2	Mathematical Institute, T14

Junior Number Theory	Prof. Heath-Brown	M.4	Mathematical Institute, SGSR1
Logic	Dr Pila	Th.5	Mathematical Institute, L3
Mathematical Biology and Ecology	Prof. Maini, Dr Baker and Dr Gaffney	F.2 (odd weeks)	Mathematical Institute, L1
Mathematical Finance Internal Seminar	Dr Gyurko	Th.1	Mathematical Institute, DHSR1
Mathematical Finance Nomura	Dr Monoyios, Dr Obloj and Dr Reisinger	F.2.15	Mathematical Institute, DHSR1
Mathematical Genetics and Bioinformatics	Dr Marchini & Dr Myers	T.4.30	Oxford Centre for Gene Function, Seminar Room
Mathematical Geoscience	Dr Farmer & Dr Fowler	F.2.30 (even weeks)	Mathematical Institute, DHSR3
Networks Journal Club	Dr Porter	Th.12.30	Mathematical Institute, T14
Nonlinear PDEs	Prof. Chen	Th. 4–6	Mathematical Institute, Gibson Building RI1.28
Number Theory	Prof. Heath-Brown	Th.4	Mathematical Institute, L3
Oxford Advanced Seminar on Informatic Structures	Dr Sadrzadeh	F.2	Department of Computer Science
Partial Differential Equations	Dr Capdeboscq	M.5	Mathematical Institute, Gibson Building RI1.28
Quantum Field Theory/Relativity	Dr Hannabuss and Dr Tsou	T.12	Mathematical Institute, L3
Representation Theory	Dr McGerty, Dr Henke and Dr Kremnizer	Th.2	Mathematical Institute, L3
Statistics Applied Probability and Operational Research	Prof. Doucet	Th.2.15 (weeks 1–6, 8)	Department of Statistics
Statistics Graduate Seminar	Dr Marchini	Th.3.45(weeks 1.3.4.5.6)	Department of Statistics
Statistics Graduate Student Presentations	Dr Marchini	Th.2.15 (week 7)	Department of Statistics
Stochastic Analysis	Prof. Lyons	M.2.15-3.30, 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	RI1.28
Topology	Prof. Tillmann and Prof. Lackenby	M.3.45	Mathematical Institute, L3
<b>GRADUATE WORKSHOPS</b>			
Stochastic Analysis	Prof. Lyons	T.10-12	Oxford-Man Institute of Quantitative Finance, Eagle House, Walton Well Road.

<b>WORKSHOPS</b>			
Industrial and Interdisciplinary Workshops	Dr Gower and Dr Breward	F.9-2	Mathematical Institute, DHSR1
<b>ADVANCED CLASSES</b>			
Algebra	Dr Kar	T.3-4.30	Mathematical Institute, SGSR2
Logic	Prof. Zilber	Th.11	Mathematical Institute, SGSR2
Topology	Prof. Tillmann	M.11	Mathematical Institute, L3
<b>GRADUATE LECTURES</b>			
An Introduction to LaTeX	Dr Schlackow	T.5 (week 1 only)	Mathematical Institute, L1
Computational Algebraic Topology	Prof. Tillmann and Prof. Abramsky	T.Th.11	Mathematical Institute, L3
Introduction to Profinite Groups	Prof. Segal	W.4.30-6.30 (week 1) [ SGHR] W.2-4 (weeks 28)[SGSR1]	Mathematical Institute, SGHR, SGSR1
On Zilber–Pink Problems	Dr Pila	T.9-11	Mathematical Institute, SGSR2
The Arithmetic Theory of Fundamental Groups	Prof. Kim	W.10-12	Mathematical Institute, SGSR1
Careers Fair	Careers Service	M.4-7 (week 4 only)	Mathematical Institute, Common Room
Careers in Maths	Careers Service	M.5-5.45 (week 4 only)	Mathematical Institute, L2
Careers in Academia	Careers Service	M.6.30 (week 4 only)	Mathematical Institute, L2
<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. MATHEMATICAL AND COMPUTATIONAL FINANCE[]</b>			
Financial Computing with C++	Dr Gyurko	T.W.12	Mathematical Institute, DHSR1
Financial Derivatives 2	Dr Jin	M.Th.11	Mathematical Institute, DHSR1
Numerical Methods 1	Dr Reisinger	T.W.11 (weeks 5-8)	Mathematical Institute, DHSR1
Numerical Methods 2	Dr Gyurko	T.W.11 (weeks 1-4)	Mathematical Institute, DHSR1
Fixed Income	Dr Obloj	M.Th.10	Mathematical Institute, DHSR1
Stochastic Control and Dynamic Asset Allocation	Dr Jin and Dr Monoyios	T.W.10	Mathematical Institute, DHSR1
Careers Fair	Careers Service	M.4-7 (week 4 only)	Mathematical Institute, Common Room
Careers in Maths	Careers Service	M.5-5.45 (week 4 only)	Mathematical Institute, L2

Careers in Academia	Careers Service	M.6.30 (week 4 only)	Mathematical Institute, L2
<b>M.Sc IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING[]</b>			
<b>CORE</b>			
A2 Applied Partial Differential Equations	Prof. Byrne	W.5 (week 4 only) [L2] Th.10 (weeks1-2,4-8)[L1] F.10 (weeks 1-8) [L1]	Mathematical Institute, L1, L2
A2 Further Applied Partial Differential Equations	Dr Dellar	W.11	Mathematical Institute, SGSR2
B2 Finite Element Methods for Partial Differential Equations	Prof. Süli	M.9 [L3], F.9 [L2]	Mathematical Institute, L3, L2
Case Studies in Mathematical Modelling	Dr Muench	W.4 (week 1 only) [L2] W. 2–4 (weeks 7 and 8) [DHSR1]	Mathematical Institute, L2, DHSR1
Case Studies in Scientific Computing	Dr Gillow	M.3 (week 1 only)	Mathematical Institute, DHSR1
An Introduction to LaTeX	Dr Schlackow	T.5 (week 1 only)	Mathematical Institute, L1
Careers Fair	Careers Service	M.4–7 (week 4 only)	Mathematical Institute, Common Room
Careers in Maths	Careers Service	M.5–5.45 (week 4 only)	Mathematical Institute, L2
Careers in Academia	Careers Service	M.6.30 (week 4 only)	Mathematical Institute, L2
<b>SPECIAL TOPICS[]</b>			
Applied Complex Variables	Dr Oliver	W.Th.12	Mathematical Institute, L2
Approximation of Functions	Prof. Trefethen	Th.9, F.11	Mathematical Institute, L3
Continuous Optimisation	Dr Hauser	M.T.11 [L2]	Mathematical Institute, L2
Elasticity and Plasticity	Prof. Goriely	T.4 (1,3-8) [L2] Th. 4 (week 2 only) [L1] F.2 [L2]	Mathematical Institute,L1, L2
Mathematical Models of Financial Derivatives	Dr Monoyios	M.12, T.12	Mathematical Institute, L1
Mathematical Physiology	Dr Gaffney	M.2, T.3	Mathematical Institute, L1
Nonlinear Systems	Dr Porter	M.4, Th.11	Mathematical Institute, L1
Numerical Solution of Differential Equations II	Dr Wathen	T.9 [L3] , W.10 [L1]	Mathematical Institute, L3, L1
Stochastic Modelling of Biological Processes	Dr Erban	T.Th.2 (week 1, 3–7)	Mathematical Institute, DHSR3
Waves and Compressible Flow	Dr Vella	M.T.10	Mathematical Institute, L1
<b>M.Sc IN COMPUTER SCIENCE</b>			
<b>Schedule A</b>			
Compilers	Dr Spivey	M.T.12	Department of Computer Science
Concurrency	Prof. Roscoe	M.10 (weeks 1–7) W.10 (weeks 1–8) Th. 2 (week 8 only)	Department of Computer Science

Concurrent Programming	Mr Sufrin	T.Th.10	Department of Computer Science
Introduction to Specification	Dr Calinescu	M.W.11	Department of Computer Science
<b>Schedule B</b>			
Computational Complexity	Prof. Horrocks	T.F.2	Department of Computer Science
Knowledge Representation & Reasoning	Dr Cuenca Grau	M.W.9	Department of Computer Science
Machine Learning	Dr Blunsom	M.W.2	Department of Computer Science
Reasoning about Information Update	Dr Sadrzadeh	W.3,Th.2	Department of Computer Science
<b>Schedule C</b>			
Automata, Logic and Games	Prof. Ong	M.W.4 F.4 (weeks 1–4)	Department of Computer Science
Database System Implementation	Dr Olteanu	T.Th.11–1, F.11 (weeks 1–4)	Department of Computer Science
Information Retrieval	Dr Palade	W.12, F.9–11	Department of Computer Science
Program Analysis	Prof. de Moor	T.Th.11–1, F.11 (weeks 5–8)	Department of Computer Science
Quantum Computer Science	Dr Doering	W.5, Th.4–6	Department of Computer Science
Requirements	Dr Jirotko	M.T.3, W.12	Department of Computer Science
Software Verification	Dr Draeger and Dr Forejt	T.9 (weeks 1–2 only) Th.9, F.12	Department of Computer Science
Theory of Data and Knowledge Bases	Prof. Lukasiewicz	T.4 Th.3	Department of Computer Science
<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	Dr Lauder	Th.12, F.11	Mathematical Institute, L1
Axiomatic Set Theory	Dr Chad	W.3 [L3], F.3 [L3]	Mathematical Institute, L3
Group Theory and an Introduction to Character Theory	Prof. Collins	Th. F.9	Mathematical Institute, L1
Gödel's Incompleteness Theorems	Dr Isaacson	M.12 [L2], W.12 [L3]	Mathematical Institute, L2, L3
<b>Schedule II</b>			
Finite Group Theory	Dr Craven	M.2, T.9	Mathematical Institute, SGSR1

<b>Section B: Applicable Theories</b>			
<b>Schedule I</b>			
Computational Complexity	Prof. Horrocks	T.F.2	Department of Computer Science
Concurrency	Prof. Roscoe	M.10 (weeks 1–7) W.10 (weeks 1–8) Th. 2 (week 8 only)	Department of Computer Science
Reasoning about Information Update	Dr Sadrzadeh	W.3,Th.2	Department of Computer Science
<b>Schedule II</b>			
Automata, Logic and Games	Prof. Ong	M.W.4 F.4 (weeks 1–4)	Department of Computer Science
Computational Algebraic Topology	Prof. Tillmann and Prof. Abramsky	T.Th.11	Mathematical Institute, L3
Elliptic Curves	Prof. Heath-Brown	W.9, F.10	Mathematical Institute, L3
Probabilistic Combinatorics	Prof. Riordan	T.12, Th.5	Mathematical Institute, L2
Quantum Computer Science	Dr Doering	W.5, Th.4–6	Department of Computer Science
Representation Theory of Symmetric Groups	Dr Erdmann	W.10 (weeks 2–8) Th.10 (weeks 1–8)	Mathematical Institute, L3
Theory of Data and Knowledge Bases	Prof. Lukasiewicz	T.4 Th.3	Department of Computer Science
<b>MATHEMATICS</b>			
<b>Moderations</b>			
A: Linear Algebra II	Dr Neumann	M.F.11 (weeks 1–4)	University Museum
A: An Introduction to Groups, Rings and Fields	Dr Earl	M.F.11 (weeks 5–8)	University Museum
B: Analysis II	Dr Dyson	M.W.12	University Museum
C: Probability II	Dr Goldschmidt	T.Th.12 (weeks 1–4)	University Museum
D: Fourier Series and Two Variable Calculus	Dr Baker	T.11, F.12	University Museum
D: Partial Differential Equations in Two Dimensions and Applications	Dr Day	W.Th.11	University Museum
D: Statistics	Dr Myers	T.Th.12 (weeks 5–8)	University Museum
MuPAD	Dr Macdonald	M.2 (weeks 1 and 3 only)	University Museum
<b>Part A</b>			
Introduction to Fields	Dr Kremnizer	W.11[L2], F.4[L1] (weeks 1–4)	Mathematical Institute, L2, L1
Group Theory	Dr Kremnizer	W.11[L2], F.4[L1] (weeks 5–8)	Mathematical Institute, L2, L1
Integration	Prof. Batty	M.T.9	Mathematical Institute, L2
Topology	Prof. Lackenby	T.Th.3	Mathematical Institute, L2

Calculus of Variations	Prof. Tod	Th.F.10 (weeks 1–4)	Mathematical Institute, L2
Classical Mechanics	Prof. Tod	Th.F.10 (weeks 5–8)	Mathematical Institute, L2
Quantum Theory	Dr Sparks	Th.2, F.12 (weeks 1–4)	Mathematical Institute, L2
Fluid Dynamics and Waves	Dr Howell	M.T.2	Mathematical Institute, L2
Probability	Dr Steinsaltz	T.10, F.11	Mathematical Institute, L2
Statistics	Dr Laws	M.W.10	Mathematical Institute, L2
Numerical Analysis	Prof. Süli	W.Th.9	Mathematical Institute, L2
Careers Fair	Careers Service	M.4–7 (week 4 only)	Mathematical Institute, Common Room
Careers in Maths	Careers Service	M.4.15–5 (week 4 only)	Mathematical Institute, L2
Careers in Academia	Careers Service	M.6.30 (week 4 only)	Mathematical Institute, L2
<b>Part B</b>			
B1b Set Theory	Dr Pila	W.F.12	Mathematical Institute, L1
B2b Group Theory and an Introduction to Character Theory	Prof. Collins	Th. F.9	Mathematical Institute, L1
B3b Algebraic Curves	Prof. Joyce	M.10 [L3], Th.11 [L2]	Mathematical Institute, L3, L2
B4b Hilbert Spaces	Prof. Batty	M.T.11	Mathematical Institute, L1
B5b Applied Partial Differential Equations	Prof. Byrne	W.5 (week 4 only) [L2] Th.10 (weeks1-2,4-8)[L1] F.10 (weeks 1-8) [L1]	Mathematical Institute, L1, L2
B6b Waves and Compressible Flow	Dr Vella	M.T.10	Mathematical Institute, L1
B7.2b Special Relativity and Electromagnetism	Dr Clifton	W.2 [L1], F.2 [L3]	Mathematical Institute, L1, L3
C7.1b Quantum Theory and Quantum Computers	Dr Hannabuss	T.Th.2	Mathematical Institute, L1
B8b Nonlinear Systems	Dr Porter	M.4, Th.11	Mathematical Institute, L1
B9b Algebraic Number Theory	Dr Lauder	Th.12, F.11	Mathematical Institute, L1
B10b Mathematical Models of Financial Derivatives	Dr Monoyios	M.T.12	Mathematical Institute, L1
B21b Numerical Solutions of Differential Equations II	Dr Wathen	T.9 [L3] , W.10 [L1]	Mathematical Institute, L3, L1
O1 History of Mathematics	Dr Neumann and Dr Stedall	M.1.30–3, 3.15–4.45	The Queen’s College, Lecture Room C
OBS1b Applied Statistics	Dr Burke	T.Th.9 (weeks 1–5)	Department of Statistics
OBS3b Statistical Lifetime-Models	Dr Winkel	M.9, W.11	Mathematical Institute, L1
OBS4b Actuarial Science II	Dr Clarke	T.4, W.3	Mathematical Institute, L1
OCS1b Design and Analysis of Algorithms	Dr Nickau	M.10, W.11.	Department of Computer Science

N101: History of Philosophy: Locke and Berkeley	Dr Avramides	T.10	Examination Schools
N101: History of Philosophy: Leibniz	Prof. Rodriguez-Pereyra	T.2	10 Merton Street
N101: History of Philosophy: Hume	Dr Kail	W.10	Examination Schools
*An Introduction to LaTeX	Dr Schlackow	T.5 (week 1 only)	Mathematical Institute, L1
*Projects: Some points and reminders about writing mathematics	Prof. Hambly	W.2 (week 4 only)	Mathematical Institute, L2
Careers Fair	Careers Service	M.4–7 (week 4 only)	Mathematical Institute, Common Room
Careers in Maths	Careers Service	M.4.15–5 (week 4 only)	Mathematical Institute, L2
Careers in Academia	Careers Service	M.6.30 (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 Gödel's Incompleteness Theorems	Dr Isaacson	M.12 [L2], W.12 [L3]	Mathematical Institute, L2, L3
C1.2b Axiomatic Set Theory	Dr Chad	W.F.3	Mathematical Institute, L3
C2.2b Finite Group Theory	Dr Craven	M.2, T.9	Mathematical Institute, SGSR1
C3.1b Differentiable Manifolds	Prof. Hitchin	M.T.11	Mathematical Institute, SGSR1
C3.2b Geometric Group Theory	Dr Papazoglou	T.4 [SGSR1], Th.4 [L2]	Mathematical Institute, SGSR1, L2
C4.1b Banach and $C^*$ -algebras	Dr Edwards	T.10, W.11	Mathematical Institute, L3
C5.1b Fixed Point Methods for Nonlinear PDEs	Dr Capdeboscq	W.2 [L3], Th.3 [L1]	Mathematical Institute, L3, L1
C5.2b Calculus of Variations	Prof. Chen	M.3 [L2] (weeks 2–8) Th.11 [SGSR1] F.12 [L3] (week 3 only)	Mathematical Institute, L1, SGSR1, L3
C6.1b Elasticity and Plasticity	Prof. Goriely	T.4 (1,3-8) [L2] Th. 4 (week 2 only) [L1] F.2 [L2]	Mathematical Institute, L1, L2
C6.3b Applied Complex Variables	Dr Oliver	W.Th.12	Mathematical Institute, L2
C7.1b Quantum Theory and Quantum Computers	Dr Hannabuss	T.Th.2	Mathematical Institute, L1
C7.4b Theoretical Physics II	Prof. Lukas	M.9, T.10, W.10	Department of Physics
C8.1b Mathematical Physiology	Dr Gaffney	M.2, T.3	Mathematical Institute, L1
C9.1b Elliptic Curves	Prof. Heath-Brown	W.9, F.10	Mathematical Institute, L3
C10.1b Brownian Motion in Complex Analysis	Dr Belyeav	W.3 [L2] (weeks 1-6, 8) F.3 [SGSR2] (weeks 1–4, 8) F.2–4 [SGSR2] (weeks 5, 6)	Mathematical Institute, L2, SGSR2
C11.1b Probabilistic Combinatorics	Prof. Riordan	T.12, Th.5	Mathematical Institute, L2

C12.1b Continuous Optimisation	Dr Hauser	M.T.11 [L2]	Mathematical Institute, L2
C12.2b Finite Element Methods for Partial Differential Equations	Prof. Süli	M.9 [L3], F.9 [L2]	Mathematical Institute, L3, L2
C12.3b Approximation of Functions	Prof. Trefethen	Th.9, F.11	Mathematical Institute, L3
MS1b Statistical Data Mining	Prof. Doucet	T.W.9	Mathematical Institute, L1
MS2b Stochastic Models in Mathematical Genetics	Dr Myers	M.12, W.11	Department of Statistics
CCS3b Quantum Computer Science	Dr Doering	W.5, Th.4–6	Department of Computer Science
CCS4b Automata, Logic and Games	Prof. Ong	M.W.4 F.4 (weeks 1–4)	Department of Computer Science
*An Introduction to LaTeX	Dr Schlackow	T.5 (week 1 only)	Mathematical Institute, L1
*Projects: Some points and reminders about writing mathematics	Prof. Hambly	W.2 (week 4 only)	Mathematical Institute, L2
Careers Fair	Careers Service	M.4–7 (week 4 only)	Mathematical Institute, Common Room
Careers in Maths	Careers Service	M.4.15–5 (week 4 only)	Mathematical Institute, L2
Careers in Academia	Careers Service	M.6.30 (week 4 only)	Mathematical Institute, L2
*These lectures will be useful to students offering an Extended Essay or Dissertation.			
<b>“Extra” Part C subjects</b>			
C2.1b Representation Theory of Symmetric Groups	Dr Erdmann	W.10 (weeks 2–8) Th.10 (weeks 1–8)	Mathematical Institute, L3
<b>COMPUTER SCIENCE</b>			
<b>Moderations</b>			
CS1 Design and Analysis of Algorithms	Dr Nickau	M.10, W.11.	Department of Computer Science
CS2 Imperative Programming I	Dr Lowe	T.10 (weeks 1–7) Th.11 (weeks 1–7) F.10 (weeks 1, 2)	Department of Computer Science
CS3 Linear Algebra	Dr Kay	M.11, W.10 (weeks 1–4)	Department of Computer Science
CS4 Logic and Proof	Prof. Worrell	T.11, W.12	Department of Computer Science
CS4 Digital Systems	Dr Jones	M.11, W.10 (weeks 5–8)	Department of Computer Science
Probability	Dr Goldschmidt	T.Th.12 (weeks 1–4)	University Museum
<b>MATHEMATICS AND COMPUTER SCIENCE</b>			
<b>Moderations</b>			

CS1 Design and Analysis of Algorithms	Dr Nickau	M.10, W.11.	Department of Computer Science
CS2 Imperative Programming I	Dr Lowe	T.10 (weeks 1–7) Th.11 (weeks 1–7) F.10 (weeks 1, 2)	Department of Computer Science
Linear Algebra	Dr Neumann	M.F.11 (weeks 1–4)	University Museum
Probability	Dr Goldschmidt	T.Th.12 (weeks 1–4)	University Museum
An Introduction to Groups, Rings and Fields	Dr Earl	M.F.11 (weeks 5–8)	University Museum
Analysis II	Dr Dyson	M.W.12	University Museum
<b>COMPUTER SCIENCE</b>			
<b>Part A</b>			
Advanced Data Structures and Algorithms	Prof. Coecke	W.Th.11	Department of Computer Science
Compilers	Dr Spivey	M.T.12	Department of Computer Science
Concurrency	Prof. Roscoe	M.10 (weeks 1–7) W.10 (weeks 1–8) Th. 2 (week 8 only)	Department of Computer Science
Concurrent Programming	Mr Sufrin	T.Th.10	Department of Computer Science
Group Project Briefings	Prof. Jeavons	W.2 (weeks 5–8)	Department of Computer Science
<b>MATHEMATICS &amp; COMPUTER SCIENCE</b>			
<b>Part A</b>			
Concurrency	Prof. Roscoe	M.10 (weeks 1–7) W.10 (weeks 1–8) Th. 2 (week 8 only)	Department of Computer Science
Logic and Proof	Prof. Worrell	T.11, W.12	Department of Computer Science
Group Project Briefings	Prof. Jeavons	W.2 (weeks 5–8)	Department of Computer Science
[In addition, the lectures above for Mathematics Part A are applicable.]			
<b>COMPUTER SCIENCE, MATHEMATICS &amp; COMPUTER SCIENCE</b>			
<b>Part B</b>			
<b>Schedule B1</b>			
Advanced Data Structures and Algorithms	Prof. Coecke	W.Th.11	Department of Computer Science
Compilers	Dr Spivey	M.T.12	Department of Computer Science
Concurrent Programming	Mr Sufrin	T.Th.10	Department of Computer Science
<b>Schedule B2</b>			
Computational Complexity	Prof. Horrocks	T.F.2	Department of Computer Science

Geometric Modelling	Dr Voiculescu	M.W.10	Department of Computer Science
Knowledge Representation & Reasoning	Dr Cuenca Grau	M.W.9	Department of Computer Science
Machine Learning	Dr Blunsom	M.W.2	Department of Computer Science
Reasoning about Information Update	Dr Sadrzadeh	W.3,Th.2	Department of Computer Science
<b>Schedule B3</b>			
Lectures under Mathematics Part B: B1, B2, B4, B5, B9 are applicable. If you wish to offer an additional Maths Part B subject under this Schedule, please contact the Academic Administrator, Department of Computer Science, for details.			
<b>Part C</b>			
<b>Schedule C1</b>			
Automata, Logic and Games	Prof. Ong	M.W.4 F.4 (weeks 1–4)	Department of Computer Science
Database System Implementation	Dr Olteanu	T.Th.F.11–1 (weeks 1–4)	Department of Computer Science
Information Retrieval	Dr Palade	W.12, F.9–11	Department of Computer Science
Program Analysis	Prof. de Moor	T.Th.11–1, F.11 (weeks 5–8)	Department of Computer Science
Quantum Computer Science	Dr Doering	W.5, Th.4–6	Department of Computer Science
Requirements	Dr Jirotko	M.T.3, W.12	Department of Computer Science
Software Verification	Dr Draeger and Dr Forejt	T.9 (weeks 1–2 only) Th.9, F.12	Department of Computer Science
Theory of Data and Knowledge Bases	Prof. Lukasiewicz	T.4 Th.3	Department of Computer Science
<b>MATHEMATICS AND PHILOSOPHY</b>			
<b>Moderations</b>			
<b>Mathematics:</b>			
A: Linear Algebra II	Dr Neumann	M.F.11 (weeks 1–4)	University Museum
A: An Introduction to Groups, Rings and Fields	Dr Earl	M.F.11 (weeks 5–8)	University Museum
B: Analysis II:	Dr Dyson	M.W.12	University Museum
[Papers A and B are compulsory papers for Honour Moderations in Mathematics and Philosophy.]			
<b>Philosophy:</b>			
Elements of Deductive Logic	Dr King	T.12	10 Merton Street
<b>Part A Mathematics:</b>			
Introduction to Fields	Dr Kremnizer	W.11[L2], F.4[L1] (weeks 1–4)	Mathematical Institute, L2, L1

Group Theory	Dr Kremnizer	W.11[L2], F.4[L1] (weeks 5–8)	Mathematical Institute, L2, L1
Integration	Prof. Batty	M.T.9	Mathematical Institute, L2
Topology	Prof. Lackenby	T.Th.3	Mathematical Institute, L2
<b>Part B Mathematics</b>			
B1b Set Theory	Dr Pila	W.F.12	Mathematical Institute, L1
[These lectures are for the compulsory subject “Foundations”. Other courses listed under mathematics Part B can be taken: B2, B3, B4, B9, N1, O1.]			
<b>Part B Philosophy:</b>			
N101: History of Philosophy: Locke and Berkeley	Dr Avramides	T.10	Examinations Schools
N101: History of Philosophy: Leibniz	Prof. Rodriguez-Pereyra	T.2	10 Merton Street
N101: History of Philosophy: Hume	Dr Kail	W.10	Examination Schools
[For further Philosophy lectures, please consult the Philosophy lecture list]			
<b>Part C Mathematics: Logic</b>			
C1.1b Gödel’s Incompleteness Theorems	Dr Isaacson	M.12 [L2], W.12 [L3]	Mathematical Institute, L2, L3
C1.2b Axiomatic Set Theory	Dr Chad	W.3 [L3], F.3 [L3]	Mathematical Institute, L3
[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	Dr Massa	M.3, Th.11 (weeks 1–4)	Department of Statistics
Statistical Programming	Dr Nicholls	F.2–4 (weeks 2–7)	Oxford University Computing Service, Banbury Road
In addition, the lectures above for Mathematics Part A apply			
<b>Part B</b>			
BS1b Applied Statistics	Dr Burke	T.Th.9 (weeks 1–5)	Department of Statistics
BS3b Statistical Lifetime-Models	Dr Winkel	M.9, W.11	Mathematical Institute, L1
BS4b Actuarial Science II	Mr Clarke	T.4, W.3	Mathematical Institute, L1
[Other courses listed under Mathematics Part B can be taken: B1, B2, B3, B4, B5, B6, B7.2, B8, B9, B10, B21.]			
<b>Part C</b>			
MS1b Statistical Data Mining	Prof. Doucet	T.W.9	Mathematical Institute, L1
MS2b Stochastic Models in	Dr Myers	M.12, W.11	Department of Statistics

Mathematical Genetics			
[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, 15 January), unless otherwise stated in this column. Events take place every week of Full Term (Weeks 1-8) unless otherwise stated.