

# MATHEMATICAL SCIENCES

## DIVISION OF MATHEMATICAL AND PHYSICAL SCIENCES

### Lecture List for Michaelmas Term 2008

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 31 October 2008

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	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 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	Th.11-12.30	Mathematical Institute, DHSR3
Combinatorial Theory	Prof McDiarmid and Prof Scott	T. 2.30 – 3.45 [L3], T. 4.30 [SR1]	Mathematical Institute, L3, SR 1.
Computational Mathematics & Applications	Prof Trefethen and Dr Dollar (RAL)	Th.2	Computing Laboratory
Computing Laboratory Seminar	Prof Gottlob	T.4.30	Computing Laboratory
Differential Equations and Applications	Dr Howison, Dr J Ockendon and Prof Chapman	Th.4.30	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.4.30	Atmospheric Physics, Dobson Room
Junior Applied Mathematics	Miss Carter and Miss Pitcher	F. 4.30 ( <i>weeks 2,4,6,8</i> )	Mathematical Institute, DHSR3
Junior Number Theory	Prof Heath-Brown	M.4	Mathematical Institute, SR1
Junior Geometry Seminar	Mr Shah	Th.12	Mathematical Institute, SR1
Junior Logic	Mr Solanki	M. 3	Mathematical Institute, SR1

Logic	Prof Zilber, Dr Koenigsmann and Dr Kirby	Th.5	Mathematical Institute, L3
Mathematical Behavioural Finance	Prof Zhou	W.3	Oxford-Man Institute of Quantitative Finance, Blue Boar Court.
Mathematical Biology	Prof Maini, Dr Baker and Dr Gaffney	F.2	Mathematical Institute, L3
Mathematical Finance	Prof Zhou	F.2.15-3.30	Mathematical Institute, DHSR1
Mathematical Genetics and Bioinformatics	Dr Spencer	T.4.30	Oxford Centre for Gene Function, Seminar Room
Mathematical Geoscience	Dr Fowler & Dr Norbury	F.2.30 ( <i>wks 2,4,6,8</i> )	Mathematical Institute, DHSR3
String theory discussion seminar	Dr de la Ossa	W.12	Mathematical Institute, F20
Number Theory	Prof Heath-Brown	Th.4	Mathematical Institute, L3
Oxford Advanced Seminar on Informatic Structures (OASIS)	Dr Sadrzadeh	F.2	Computing Laboratory
Partial Differential Equations	Dr Capdeboscq	M.5	Gibson Seminar Room
Quantum Field Theory	Dr Hannabuss and Dr Tsou	T.12	Mathematical Institute, L3
Relativity	Prof Tod and Prof Mason	T.12	Mathematical Institute, L3
Representation Theory	Dr Erdmann and Dr Henke	Th.2.30	Mathematical Institute, L3
Statistics, Applied Probability and Operational Research	t.b.c.	Th.2.15 ( <i>weeks 1,3,4,5,6</i> )	Statistics Department
Statistics Graduate Seminar	Prof Reinert and Prof Sir David Cox	Th.3.45 ( <i>weeks 1,3,4,5,6</i> )	Statistics Department
Statistics General Seminar	t.b.c.	Th.2.15 ( <i>weeks 2,8</i> )	Statistics Department
Statistics Graduate Student Presentations	Dr Clifford	Th. 2.15 ( <i>week 7</i> )	Statistics Department
Stochastic Analysis	Prof Lyons	M.2.15-3.45, 3.45-5.00	Oxford-Man Institute of Quantitative Finance, Blue Boar Court.
String Theory	Prof Candelas and Dr de la Ossa	M.12	Mathematical Institute, L3
Topology	Prof Tillmann and Prof Lackenby	M.3.45	Mathematical Institute, L3
<b>GRADUATE WORKSHOPS</b>			
Stochastic Analysis	Prof Lyons	T.11.00-13.00	Oxford-Man Institute of Quantitative Finance, Blue

			Boar Court.
<b>WORKSHOPS</b>			
Industrial and Interdisciplinary Workshops	Dr Breward	F.9-2 ( <i>exact times vary</i> )	Mathematical Institute, DHSR1
<b>ADVANCED CLASSES</b>			
Algebra Fusion Systems	Dr Craven	T.2-4	Mathematical Institute, SR1
Logic	Prof Zilber	Th.11	Mathematical Institute, SR1
Representation Theory	Prof Rouquier	W.5	Mathematical Institute, L2
Junior Representation Theory	Dr Craven	W.4	Mathematical Institute, SR1
<b>GRADUATE LECTURES</b>			
Category Theory	Dr Kirby	M,W.11	Mathematical Institute, SR1
Geometry of Infinite Groups	Dr Drutu	Th.11, F.2.	Mathematical Institute, L3(Th.11), SR2(F.2)
Scientific computing for DPhil Students	Prof Trefethen	T.F.12	Computing Laboratory
*BE/OE Extended Essay: <i>An Introduction to Latex</i>	I. Schlackow	W.2 (wk6)	Mathematical Institute, L1
<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>Details to follow</i>			
<b>M.Sc. MATHEMATICAL AND COMPUTATIONAL FINANCE</b>			
Asset Pricing	Dr Monoyios	M,W. 11( <i>weeks 5-8</i> )	Mathematical Institute, DHSR1
Financial Derivatives	Prof Howison	T,Th.11	Mathematical Institute, DHSR1
Practical Stochastic Calculus	Dr Hambly	M,W.11 ( <i>weeks 1-4</i> )	Mathematical Institute, DHSR1
Numerical Methods for Finance	Dr Reisinger and Prof Giles	T,Th. 2	Mathematical Institute, DHSR1

Stochastic Differential Equations	Prof Lyons	M. 12, F.5	Mathematical Institute, L2
<b>M.Sc IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING</b>			
<b>CORE</b>			
Introduction to Applied Mathematics	Dr Porter	M.10-12, T.4-6, Th.5, F.12 ( <i>week 1</i> )	Mathematical Institute, L1
A1 Mathematical Methods	Prof Howison	T,Th 5.30 ( <i>weeks 2-8</i> )	Mathematical Institute, L1
A1 Mathematical Methods	Dr H Ockendon	Th.11( <i>weeks 4-8</i> ), Th. 3 ( <i>weeks 6-8</i> )	Mathematical Inst, SR2
B1 Numerical Linear Algebra	Dr Wathen	Th.4,F.3 ( <i>weeks 1-4</i> )	Computing Laboratory
B2 Numerical Linear Algebra	Dr Wathen	Th.4,F.3 ( <i>weeks 5-8</i> )	Computing Laboratory
B1 Numerical Solution of Differential Equations I	Prof Suli	M.4, F.2	Computing Laboratory
Mathematical Modelling	Dr Oliver	T, Th.1.30-3	Mathematical Inst, SR2
Additional Skills	Dr Gillow	W.11-1	Computing Laboratory
Practical Numerical Analysis	Dr Platte	T.10,W.9	Computing Laboratory,
<b>SPECIAL TOPICS</b>			
Approximation of Functions	Dr Sobey	T.9,F.10	Computing Laboratory
Mathematics and the Environment	Dr Sander, Dr Gramberg and Mr Hewitt	M.9, F.9	Mathematical Institute, L2
Perturbation Methods	Dr Porter	M.3, T. 11	Mathematical Institute, L2
Martingales Through Measure Theory	Dr Tarres	T,Th.12	Mathematical Institute, L1
Solid Mechanics	Prof Ball	Th.10, F.11	Mathematical Institute, L2
Methods of Functional Analysis for PDEs	Dr Dyson	M.2, W.10	Mathematical Institute, L2
Stochastic Differential Equations	Prof Lyons	M 12,F.5	Mathematical Institute, L2
Viscous Flow	Dr Oliver	M 10, F.12 ( <i>weeks 2-8</i> )	Mathematical Institute, L1
Mathematical Ecology and Biology	Dr Gaffney	M.11,T. 4 ( <i>weeks 2-8</i> )	Mathematical Institute, L1
Topics in Fluid Mechanics	Prof Chapman and Dr Peppin	T. 3, F. 4	Mathematical Institute, L2
<b>M.Sc IN COMPUTER SCIENCE</b>			
<b>Schedule A</b>			

Concurrency	Dr Worrell	T.9, W.10 ( <i>wks 1-7</i> ), Th. 5( <i>wks 1&amp;2</i> )	Computing Laboratory
Formal Program Design	Dr Jones	M.W. 9, F 10	Computing Laboratory
Functional Programming	Dr Jeavons	M.11( <i>wks 1-8</i> ), F.11( <i>wks1 and 3-8</i> ), F.10 ( <i>wk 2</i> )	Computing Laboratory
Introduction to Specification	Dr Calinescu	T. 10, F.11	Computing Laboratory
Object Oriented Programming	Dr Motik	M.10,W.11 ( <i>wks 1,2,4-8</i> ) W.4 ( <i>wks 1-2</i> )	Computing Laboratory
Principles of Programming Languages	Dr Spivey	T,Th.11	Computing Laboratory
Introduction to Foundations of Computer Science	Prof Benedikt	M. 10, T.W.F. 11 ( <i>weeks1-4</i> )	Computing Laboratory
<b>Schedule B</b>			
Computer Security	Dr Pavlovic	W. 12, F. 9 ( <i>wks 1-3 and 5-8</i> ), F.4 ( <i>wks 1-2</i> )	Computing Laboratory
Computational Complexity	Dr Kreutzer	M.2,W.5	Computing Laboratory
Databases	Prof Benedikt	M.3, Th.2	Computing Laboratory
Intelligent Systems I	Dr Cameron	T,F.12	Computing Laboratory
<b>Schedule C</b>			
Computational Linguistics	Prof Pulman	T.2, Th.3	Computing Laboratory
Computer Aided Formal Verification	Prof Melham	M.12, Th.10 ( <i>weeks 1-8</i> ), Th.9 ( <i>weeks 1-4</i> )	Computing Laboratory
Information Retrieval	Dr Clark	M.2, T.3 ( <i>weeks 1-8</i> ), Th.12 ( <i>weeks 1-4</i> )	Computing Laboratory
Probabilistic Model Checking	Dr Parker	M.Th. 11 ( <i>weeks 1-8</i> ) F.4 ( <i>weeks 1-4</i> )	Computing Laboratory
Randomised Algorithms	Dr Ouaknine	M.W. 3 ( <i>weeks 1-8</i> ) Th. 2 ( <i>weeks 1-4</i> )	Computing Laboratory
<b>M.Sc IN MATHEMATICS AND THE FOUNDATIONS OF COMPUTER SCIENCE</b>			
<b>Section A: Mathematical Foundations</b>			
<b>Schedule I</b>			
Analytic Number Theory	Prof Heath-Brown	M. 4, F. 12	Mathematical Institute, L2
Analytic Topology	Prof Haydon	T.4, Th.12	Mathematical Institute, L2
Gödel's Incompleteness Theorems	Dr Isaacson	T,W.12	Mathematical Institute, L2

Introduction to Representation Theory	Dr Henke	M,F,9	Mathematical Institute, L1
Lie Algebras	Prof J Wilson	M,11, 5	Mathematical Institute, L2
<b>Schedule II</b>			
Geometry of Infinite Groups	Dr Drutu	Th,11, F,2.	Mathematical Institute, L3(Th,11), SR2(F,2)
<b>Section B: Applicable Theories</b>			
<b>Schedule I</b>			
Applied Probability	Dr Goldschmidt	W,4, F,10	Mathematical Institute,L1
Communication Theory	Dr Stirzaker	Th,4, F,3	Mathematical Institute, L1
Computational Complexity	Dr Kreuzer	M,2,W,55	Computing Laboratory
Concurrency	Dr Worrell	T,9,W,10 ( <i>wks 1-7</i> ), Th,5 ( <i>wks 1-2</i> )	Computing Laboratory
Graph Theory	Prof Scott	T,10,W,9	Mathematical Institute, L2
Introduction to Foundations of Computer Science	Prof Benedikt	M, 10, T,W,F, 11 ( <i>weeks 1-4</i> )	Computing Laboratory
<b>Schedule II</b>			
Computer-Aided Formal Verification	Prof Melham	M,12,Th,10 ( <i>weeks 1-8</i> ) Th,9 ( <i>weeks 1-4</i> )	Computing Laboratory
Randomised Algorithms	Dr Ouaknine	M,W, 3 ( <i>weeks 1-8</i> ) Th, 2 ( <i>weeks 1-4</i> )	Computing Laboratory
<b>MATHEMATICS</b>			
<b>Moderations</b>			
A&B: Introduction to Pure Mathematics	Prof Vaughan-Lee	T,W,Th,11,Th,2, F,12 ( <i>wk 1</i> )	University Museum
A&B: Reasoning and General Proofs	Dr Knight	T,W,10,F,11( <i>wk 2</i> )	University Museum
B:Introduction to Complex Numbers	Dr Szendroi	T,W,10. ( <i>wk 1</i> )	University Museum
A: Linear Algebra I	Dr Henke	T,Th,11 ( <i>wks 2-8</i> )	University Museum
A: Geometry I	Prof Joyce	W, 11 ( <i>wks 2-4</i> ) Th,12 ( <i>wks 1-4</i> )	University Museum
B: Analysis I	Dr Earl	Th,2,F,12 ( <i>wks 2-8</i> )	University Museum
C: Calculus of One Variable	Dr Gaffney	T,12,W,9 ( <i>wks 1-3</i> )	University Museum
C: Calculus of Two or more Variables	Dr Gaffney	T,12,W,9 ( <i>wks 4-8</i> )	University Museum

C: Dynamics	Dr Acheson	M,W.12	University Museum
C: Probability I	Dr Laws	W. 11 Th.12 ( <i>wks 5-8</i> )	University Museum
Mathematics with Maple	Dr Wilkins	M.2 ( <i>wks 1 &amp; 6</i> )	University Museum
<b>Part A</b>			
Algebra	Dr Stewart	M.4,Th.10,F.2	University Museum
Analysis	Dr Melcher	M,T.3, Th.3	University Museum
Differential Equations	Prof Tod	M.11,T.4, F.9	University Museum
<b>Part B</b>			
B1a Logic	Dr Koenigsmann	W.11-1( <i>week 1</i> ), W,F.11( <i>weeks 2-8</i> )	Mathematical Institute, L1
B2a Introduction to Representation Theory	Dr Henke	M,F.9	Mathematical Institute, L1
B3a Geometry of Surfaces	Dr Dancer	T,Th.9	Mathematical Institute, L1
B4a Banach Spaces	Dr Edwards	T,Th.10	Mathematical Institute, L1
B568 Introduction to Applied Mathematics	Dr Porter	M.10-12, T.4-6, Th.5, F.12 ( <i>week 1</i> )	Mathematical Institute, L1
B5a Techniques of Applied Mathematics	t.b.c.	T.Th.5.30 ( <i>weeks 2-8</i> )	Mathematical Institute, L1
B6a Viscous Flow	Dr Oliver	M10,F.12 ( <i>weeks 2-8</i> )	Mathematical Institute, L1
B7.1a Quantum Mechanics	Dr Hannabuss	T,Th.3	Mathematical Institute, L1
B7.2a Special Relativity and Electromagnetism	Dr de la Ossa	W.10,Th.11	Mathematical Institute, L1
B8a Mathematical Ecology and Biology	Dr Gaffney	M.11,T.4 ( <i>weeks 2-8</i> )	Mathematical Institute, L1
B9a Galois Theory	Dr Szendroi	M.4,T.11	Mathematical Institute, L1
B10a Martingales Through Measure Theory	Dr Tarres	T,Th.12	Mathematical Institute, L1
B11 Communication Theory	Dr Stirzaker	Th.4,F.3	Mathematical Institute, L1
B12a Applied Probability	Dr Goldschmidt	W.4, F.10	Mathematical Institute,L1
B21a Numerical Solution of Differential Equations I	Prof Süli	M.4, F.2	Computing Laboratory
O1 History of Mathematics	Dr Stedall	M.2-4	Mathematical Institute, L1
OBS1a Applied Statistics I	Dr Nicholls	W.12,F.11	Statistics Dept.
OBS2a Foundations of Statistical Inference	Dr Clifford	M.11,T.10	Statistics Dept

OBS4a Actuarial Science	Dr Winkel	T.2,W.9	Mathematical Institute, L1
OCS1 Functional Programming	Prof Jeavons	M.11( <i>wks 1-8</i> ), F.11( <i>wks 1 and 3-8</i> ), F.10 ( <i>wk 2</i> )	Computing Laboratory
N101 History of Philosophy: Descartes	Dr Kail	M,W.10 ( <i>wks 1-4</i> )	Exam Schools
N101 History of Philosophy: Locke and Berkeley	Dr Avramides	F.10	Exam Schools
N102 Knowledge and Reality: Epistemology	Dr Wedgwood	T.2	Exam Schools
N102 Knowledge and Reality: Metaphysics	Prof Hawthorne	Th.2	Exam Schools
N122 Philosophy of Mathematics	Dr Uzquiano	W.10	Exam Schools
C3.1a Topology and Groups	Prof Lackenby	T,F.2	Mathematical Institute, L1
C5.1a Methods of Functional Analysis for PDEs	Dr Dyson	M.2,W.10	Mathematical Institute, L2
*BE/OE Extended Essay: <i>Week 1 'Presenting an Application'; Week 7 'Presenting a Thesis'</i>	Prof R Heath-Brown.	Th.2 (wk1) W.2 (wk7)	Mathematical Institute, L1
*BE/OE Extended Essay: <i>An Introduction to Latex</i>	I. Schlackow	W.2 (wk6)	Mathematical Institute, L1
*These lectures will be useful to students offering an Extended Essay or Dissertation.			
<b>Part C</b>			
C1.1a Gödel's Incompleteness Theorems	Dr Isaacson	T,W.12	Mathematical Institute, L2
C1.2a Analytic Topology	Prof Haydon	T.4, Th.12	Mathematical Institute, L2
C2.1a Lie Algebras	Prof J Wilson	M.11,5	Mathematical Institute, L2
C3.1a Topology and Groups	Prof Lackenby	T,F.2	Mathematical Institute, L2
C4.1a Functional Analysis	Prof Batty	M.10,T.9	Mathematical Institute, L2
C5.1a Methods of Functional Analysis for PEDs	Dr Dyson	M.2,W.10	Mathematical Institute, L2
C6.1 Solid Mechanics	Prof Ball	Th.10,F.11	Mathematical Institute, L2
C6.3a Perturbation Methods	Dr Porter	M.3,T.11	Mathematical Institute, L2
C6.4 Topics in Fluid Mechanics	Prof Chapman and Dr Peppin	T.3,F.4	Mathematical Institute, L2

C7.4 Theoretical Physics	Prof Chalker	M.9, W.10, Th.9	Denis Sciama Lecture Theatre, Denys Wilkinson Building, Physics
C8.1a Mathematics and the Environment	Dr Sander, Dr Gramberg and Mr Hewitt	M.9, F.9	Mathematical Institute, L2
C9.1a Analytic Number Theory	Prof Heath-Brown	M.4,F.12	Mathematical Institute, L2
C10.1a Stochastic Differential Equations	Prof Lyons	M.12,F.5	Mathematical Institute, L2
C11.1a Graph Theory	Prof Scott	T.10,W.9	Mathematical Institute, L2
C12.1a Numerical Linear Algebra	Dr Wathen	Th.4,F.3	Computing Laboratory
C12.2a Approximation of Functions	Dr Sobey	T.9,F.10	Computing Laboratory
MS2a Bioinformatics and Computational Biology	Prof Hein	W,Th.11	Statistics Dept
*Dissertation: <i>Week 1 'Presenting an Application'; Week 7 'Presenting a Thesis'</i>	t.b.a.	t.b.a.	Mathematical Institute,
*Dissertation: <i>An Introduction to Latex</i>	I. Schlackow	W.2 (wk6)	Mathematical Institute, L1
*These lectures will be useful to students offering an Extended Essay or Dissertation.			
<b>“Extra” Part C subjects</b>			
[Note: No “Extra” Part C subjects are planned for MT 2008.]			
<b>COMPUTER SCIENCE</b>			
<b>Moderations</b>			
CS1 Functional Programming	Prof Jeavons	M.11( <i>wks 1-8</i> ), F.11( <i>wks 1 and 3-8</i> ), F.10 ( <i>wk 2</i> )	Computing Laboratory
CS3 Discrete Mathematics	Dr Ker	T,Th.10	Computing Laboratory
CS3 Linear Algebra	Dr Kay	W.10, F.9	Computing Laboratory
[In addition, the lectures above for Mathematics Moderations are applicable: C: Probability I and Calculus of One Variable: Calculus of Two or More Variables.]			
<b>MATHEMATICS AND COMPUTER SCIENCE</b>			
<b>Moderations</b>			
CS1 Functional Programming	Prof Jeavons	M.11( <i>wks 1-8</i> ), F.11( <i>wks 1 and 3-8</i> ), F.10 ( <i>wk 2</i> )	Computing Laboratory
[In addition, the lectures above for Mathematics Moderations are applicable: A&B: Introduction to Pure Mathematics, A&B: Reasoning and General Proofs, B: Introduction to Complex Numbers, A: Linear Algebra I, B: Analysis I, C: Probability I and			

Calculus of One Variable: Calculus of Two or More Variables.]			
<b>COMPUTER SCIENCE</b>			
<b>Part A</b>			
Object Oriented Programming	Dr Motik	M.10,W.11 ( <i>wks 1,2,4-8</i> ) W.4 ( <i>wks 1-2</i> )	Computing Laboratory
Concurrency	Dr Worrell	T.9, W.10 ( <i>wks 1-7</i> ) Th.5 ( <i>wks 1-2</i> )	Computing Laboratory
Computer Graphics	Dr Pitt-Francis	M,Th.12	Computing Laboratory
Formal Program Design I	Dr Jones	M.9,W.9,F.10	Computing Laboratory
Principles of Programming Languages	Dr Spivey	T,Th.11	Computing Laboratory
<b>MATHEMATICS &amp; COMPUTER SCIENCE</b>			
<b>Part A</b>			
Object Oriented Programming	Dr Motik	M.10,W.11 ( <i>wks 1,2,4-8</i> ) W.4 ( <i>wks 1-2</i> )	Computing Laboratory
Concurrency	Dr Worrell	T.9, W.10 ( <i>wks 1-7</i> ) Th.5 ( <i>wks 1-2</i> )	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>			
<b>Schedule B1</b>			
Computer Graphics	Dr Pitt-Francis	M,Th.12	Computing Laboratory
Formal Program Design	Dr Jones	M.9,W.9.F.10	Computing Laboratory
Principles of Programming Languages	Dr Spivey	T,Th.11	Computing Laboratory
<b>Schedule B2</b>			
Computer Security	Dr Pavlovic	W.12, F.9 ( <i>wks 1-3 and 5-8</i> ), F.4 ( <i>wks 1-2</i> )	Computing Laboratory
Computational Complexity	Dr Kreuzer	M.2,W.5	Computing Laboratory
Databases	Prof Benedikt	M.3,Th.2	Computing Laboratory
Intelligent Systems I	Dr Cameron	T,F.12	Computing Laboratory
Numerical Solution of Differential Equations I	Prof Süli	M.4, F.2	Computing Laboratory
<b>Schedule B3</b>			
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>			

<b>Schedule CI</b>			
Computational Linguistics	Prof Pulman	T.2,Th.3	Computing Laboratory
Computer Aided Formal Verification	Prof Melham	M.12, Th.10 ( <i>Weeks 1-8</i> ), Th.9 ( <i>Weeks 1-4</i> )	Computing Laboratory
Information Retrieval	Dr Clark	M.2, T.3 ( <i>Weeks 1-8</i> ), Th.12 ( <i>Weeks 1-4</i> )	Computing Laboratory
Probabilistic Model Checking	Dr Parker	M.Th.11 ( <i>wks 1-8</i> ) F.4 ( <i>wks 1-4</i> )	Computing Laboratory
Randomised Algorithms	Dr Ouaknine	M,W.3 ( <i>weeks 1-8</i> ) Th.2 ( <i>weeks 1-4</i> )	Computing Laboratory
<b>MATHEMATICS AND PHILOSOPHY</b>			
<b>Moderations</b>			
<b>Mathematics:</b>			
A&B: Introduction to Pure Mathematics	Prof Vaughan-Lee	T,W,Th.11, Th.2,F.12 ( <i>wk 1</i> )	University Museum
A&B: Reasoning and General Proofs	Dr Knight	T,W.10,F.11( <i>wk 2</i> )	University Museum
B:Introduction to Complex Numbers	Dr Szendroi	T,W.10. ( <i>wk 1</i> )	University Museum
A: Linear Algebra I	Dr Henke	T,Th.11 ( <i>wks 2-8</i> )	University Museum
A: Geometry I	Prof Joyce	W. 11 ( <i>wks 2-4</i> ) Th.12 ( <i>wks 1-4</i> )	University Museum
B: Analysis I	Dr Earl	Th.2,F.12 ( <i>wks 2-8</i> )	University Museum
[Papers A and B are compulsory papers for Honour Moderations in Mathematics and Philosophy. The lectures in Calculus of One Variable and in Calculus of Two or More Variables under "MATHEMATICS Moderations" are strongly recommended as background for later courses in Mathematics.]			
<b>Philosophy:</b>			
General Philosophy	Dr Millican	W.12	Exam Schools
Introduction to Logic	Dr Halbach	M.12	Exam Schools
<b>Part A Mathematics:</b>			
Algebra	Dr Stewart	M.4, Th.10,F.2	University Museum
Analysis	Dr Melcher	M,T.3, Th.3	University Museum
[These lectures are for compulsory subjects]			
<b>Part B Mathematics</b>			
B1a Logic	Dr Koenigsmann	W.11-1( <i>week 1</i> ), W,F.11( <i>weeks 2-8</i> )	Mathematical Institute, L1
[These lectures are for the compulsory subject "Foundations". Other courses listed under mathematics Part B can be taken: B2, B3,			

B4, B568, B5, B6, B7.1, B7.2, B8, B9, B10, B11, B21, B22, O1.]			
<b>Part B Philosophy:</b>			
101 History of Philosophy: Locke and Berkeley	Dr Avramides	F.10	Exam Schools
101 History of Philosophy: Hume	Dr Kail	M, W.10	Exam Schools
102 Knowledge and Reality: Epistemology	Dr Wedgwood	T.2	Exam Schools
102 Knowledge and Reality: Metaphysics	Prof Hawthorne	Th.2	Exam Schools
122 Philosophy of Mathematics	Dr Uzquiano	W.10	Exam Schools
[For further Philosophy lectures, please consult the Philosophy lecture list]			
<b>Part C Mathematics: Logic</b>			
C1.1a Gödel's Incompleteness Theorems	Dr Isaacson	T,W.12	Mathematical Institute, L2
C1.2a Analytic Topology	Prof Haydon	T.4, Th.12	Mathematical Institute, L2
[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>			
The lectures above for Mathematics Part A, on the compulsory subjects of Algebra, Analysis, and Differential Equations, all apply.			
<b>Part B</b>			
BS1a Applied Statistics I	Dr Nicholls	W.12,F.11	Statistics Dept.
BS2a Foundations of Statistical Inference	Dr Clifford	M.11,T.10	Statistics Dept
BS3a Applied Probability	Dr Goldschmidt	W.4, F.10	Mathematical Institute,L1
BS4a Actuarial Science	Dr Winkel	T.2,W.9	Mathematical Institute, L1
[Other courses listed under Mathematics Part B can be taken: B1, B2, B3, B4, B5, B6, B7.1, B7.2, B8, B9, B10, B11, C3.1, C5.1.]			
<b>Part C</b>			
MS2a Bioinformatics and Computational Biology	Prof Hein	W,Th.11	Statistics Dept
[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, 12 October), unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1-8) unless otherwise stated.