

Lectures Proposed by the Board of the Faculty of Mathematics

MATHEMATICAL TRIPOS

Lectures proposed by the Board of the Faculty of Mathematics. Graduates of the University who are not reading for any University Examination may attend without payment any lectures proposed by the Faculty Board of Mathematics.

Part IA students are recommended to attend the induction session which will be held from 9.30 a.m. to 10.45 a.m. on Wednesday 3 October 2007, in the *Cockcroft Lecture Theatre*.

A meeting will be held for all Part IA students on Friday 2 May 2008 at 2.00 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques.

Note that the non-examinable courses on **Introduction to Mechanics**, **Concepts in Theoretical Physics** and **Topics in the History of Mathematics** will be of interest to all students reading the Mathematical Tripos. Full details are given below.

MICHAELMAS 2007

LENT 2008

EASTER 2008

PART IA

Lectures for Part IA of the Mathematical Tripos will be held in the *Cockcroft Lecture Theatre* unless otherwise stated.

Differential Equations

PROF. F. QUEVEDO
M. W. F. 10

Groups

DR G. P. PATERNAIN
M. W. F. 11

Vectors and Matrices

DR S. J. COWLEY
Tu. Th. S. 10

Numbers and Sets

PROF. P. T. JOHNSTONE
Tu. Th. S. 11

Non-Examinable Courses

Introduction to Mechanics

TBD
Tu. Th. 12, *Mill Lane Room 3* (Twelve lectures)

Topics in the History of Mathematics: Ancients to the Renaissance

DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences, Room 9*

Vector Calculus

PROF. E. J. HINCH
M. W. F. 10

Analysis I

PROF. A. G. THOMASON
M. W. F. 11

Probability

PROF. W. T. GOWERS
Tu. Th. S. 10

Dynamics

DR S. T. C. SIKLOS
Tu. Th. S. 11

Topics in the History of Mathematics: Renaissance to the 19th Century

DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences, Room 9*

Metric and Topological Spaces*

PROF. B. J. GREEN
M. W. F. 10, *Mill Lane Room 3* (Twelve lectures)

Optimization*

DR M. R. TEHRANCHI
M. W. F. 11, *Mill Lane Room 3* (Twelve lectures)

Numerical Analysis*

PROF. A. ISERLES
M. W. F. 12, *Mill Lane Room 3* (Twelve lectures)

Computational Projects

DR R. E. HUNT AND OTHERS
Tu. Th. 10, *Mill Lane Room 3* (Six lectures)

Special Relativity*

PROF. M. B. GREEN
Tu. Th. 11, *Mill Lane Room 3* (Eight lectures)

Concepts in Theoretical Physics

PROF. N. G. TUROK, DR D. TONG AND DR N. BERLOFF
Tu. Th. 12, *Mill Lane Room 3* (Eight lectures)

Mathematics with Computer Science Option:

Students taking this option should attend Algebra and Geometry, Numbers and Sets, Differential Equations, Analysis I, Vector Calculus and Probability from Part IA of the Mathematical Tripos, together with the courses from the Computer Science Tripos listed below. Students should note that the programming exercises will be taken into account by the Examiners.

Registration.

DR F. H. KING AND MISS C. H. NORTHEAST Th. 12 (One lecture) *Arts School, Room A, Bene't Street*

Introduction to Computer Science.

PROF. A. HOPPER F. 12 (One lecture) *Arts School, Room A, Bene't Street*

Foundations of Computer Science.

PROF. L. C. PAULSON M. W. F. 12 (Fifteen lectures, beginning 8 Oct.) *Arts School, Room A, Bene't Street*

Operating Systems.

DR S. M. HAND M. W. F. 12 (Eight lectures, beginning 12 Nov.) *Arts School, Room A, Bene't Street*

Operating Systems continued.

DR S. M. HAND M. W. F. 12 (Eight lectures) *Arts School, Room A, Bene't Street*

Programming in Java.

DR A. C. NORMAN M. W. F. 12 (Sixteen lectures, beginning 6 Feb.) *Arts School, Room A, Bene't Street*

Algorithms I.

DR K. A. FRASER M. W. F. 12 *Arts School, Room A, Bene't Street* (non-examinable course)

* Examined in Part IB of the Tripos.

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART IA (continued)

MICHAELMAS 2007

LENT 2008

EASTER 2008

Practical ML under Windows.

DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS
Th. 2–5 (Two classes) *Lecture Theatre 1, William
Gates Building*

Programming Practical Class.

PROF. L. C. PAULSON AND DR F. H. KING Th. 2–4 (Three
fortnightly classes, beginning 18 Oct. or 25 Oct.)
Cockcroft Building, Floor 4

Assessed Exercise Work. M. or W. or F. 2–4 *Cockcroft
Building, Floor 4*

How to Study Computer Science.

DR N. A. DODGSON AND OTHERS Th. 5 (One lecture,
18 Oct.) *Arts School, Room A, Bene't Street*

Tick-Four Briefing.

DR F. H. KING Th. 5 (One lecture, 25 Oct.) *Hopkinson
Lecture Room*

Help Sessions.

STAFF Th. 5 (Four classes, beginning 1 Nov.) *Hopkinson
Lecture Room*

Programming Practical Class.

DR A. C. NORMAN AND DR F. H. KING Th. 2–4
(Four fortnightly classes, beginning 17
Jan. or 24 Jan.) *Cockcroft Building,
Floor 4*

Assessed Exercise Work.

M. or W. or F. 2–4 *Cockcroft Building, Floor 4*

How to Install Linux.

DR R. J. DOWLING Th. 5 (One lecture, 7 Feb.)
Cockcroft Lecture Theatre

Revision Skills.

STAFF Th. 5 (One lecture, 6 Mar.) *Arts School,
Room A, Bene't Street*

Programming Practical Class.

DR A. C. NORMAN AND DR F. H. KING Th. 1–4
(Two fortnightly classes, beginning
24 Apr. or 1 May) *Cockcroft Building,
Floor 4*

Assessed Exercise Work.

M. or W. or F. 2–4 *Cockcroft Building, Floor 4*

Part IB Assessed Exercise Briefing.

DR A. C. NORMAN AND DR J. K. FAWCETT
Th. 4.30 (One lecture, 15 May) *Arts
School, Room A, Bene't Street*

Mathematics with Physics Option:

Students taking this third option should attend Vectors and Matrices, Groups, Differential Equations, Analysis I, Vector Calculus and Probability from Part IA of the Mathematical Tripos, together with the lectures listed below in Part IA of the Natural Sciences Tripos. They will be required to do Physics practical work, and are recommended to attend at least the first lecture of Course B of the Computing Course for Physical Scientists.

Principles of Relativity, Mechanics and Fields

DR P. J. DUFFETT-SMITH M. W. F. 9 (first nineteen
lectures) *Chemical Laboratory, Lensfield Road*

Electromagnetism, Oscillations and Waves

DR G. A. C. JONES M. W. F. 9 (last three lectures,
beginning 23 Nov.) *Chemical Laboratory, Lensfield
Road*

Experimental Physics

DR D. A. GREEN Two lectures, W. 17 Oct. and W. 31 Oct.
Chemical Laboratory, Lensfield Road

Electromagnetism, Oscillations and Waves

DR G. A. C. JONES M. W. F. 9 (first sixteen
lectures) *Chemical Laboratory, Lensfield
Road*

Quantum Mechanics and the Physics of Large Systems

PROF. C. G. SMITH M. W. F. 9 (last eight
lectures, beginning 25 Feb.) *Chemical
Laboratory, Lensfield Road*

Quantum Mechanics and the Physics of Large Systems

PROF. C. G. SMITH M. W. F. 9 (first ten
lectures) *Chemical Laboratory,
Lensfield Road*

Revision Lectures

DR P. J. DUFFETT-SMITH AND DR G. A. C. JONES
Two lectures, M. 20 May and W. 22
May *Chemical Laboratory, Lensfield
Road*

Laboratory Work takes place at the Cavendish Laboratory (West Cambridge). All students must attend an introductory talk and register for Laboratory Work at 11.30 a.m. on W. 3 Oct. at the Cavendish Laboratory. The Laboratory may be approached by the Madingley Road, or via the Coton cycle and footpath. For cyclists and pedestrians the latter is strongly recommended. Laboratory work is continuously assessed.

MATHEMATICAL TRIPOS, PART IB

Lectures for Part IB of the Mathematical Tripos will be held in *Mill Lane Lecture Rooms, Room 3* unless otherwise stated.

Analysis II

DR P. A. RUSSELL
M. W. F. 10

Linear Algebra

DR T. A. FISHER
M. W. F. 11

Methods

DR C. P. CAULFIELD
M. W. F. 12

Quantum Mechanics

PROF. N. DOREY
Tu, Th. 10

Markov Chains

PROF. F. P. KELLY
Tu, Th. 11 (Twelve lectures)

Complex Analysis

PROF. A. J. SCHOLL
M. W. 9

Groups, Rings and Modules

PROF. N. I. SHEPHERD-BARRON
M. W. F. 10

Electromagnetism

PROF. N. G. TUROK
M. W. F. 11 (first sixteen lectures)

Special Relativity

PROF. A. C. DAVIS
M. W. F. 11 (last eight lectures)

Complex Methods

PROF. G. W. GIBBONS
M. W. 12

Statistics

PROF. R. R. WEBER
Tu, Th. 10

Geometry

PROF. P. M. H. WILSON
Tu, Th. 11

Fluid Dynamics

PROF. H. HUPPERT
Tu, Th. 12

Metric and Topological Spaces

PROF. B. J. GREEN
M. W. F. 10 (Twelve lectures)

Optimization

DR M. R. TEHRANCHI
M. W. F. 11 (Twelve lectures)

Numerical Analysis

PROF. A. ISERLES
M. W. F. 12 (Twelve lectures)

Special Relativity

PROF. M. B. GREEN
Tu, Th. 11 (Eight lectures)

Non-Examinable Courses

Topics in the History of Mathematics: Ancients to the Renaissance

DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences, Room 9*

Topics in the History of Mathematics: Renaissance to the 19th Century

DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences,
Room 9*

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Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS PART II

Lectures will be held in the Meeting Rooms (MR) of the *Centre for Mathematical Sciences, Clarkson Road*, unless otherwise stated.

A meeting will be held on Wednesday, 11 June 2008 for finalists who may continue to Part III of the Tripos in 2008–09. The meeting will be held in *MR2 at the Centre for Mathematical Sciences* at 11.15 a.m.

MICHAELMAS 2007

LENT 2008

EASTER 2008

C COURSES

Number Theory

PROF. J. H. COATES
M. W. F. 10, *MR3*

Further Complex Methods

DR S. T. C. SIKLOS
M. W. F. 11, *MR2*

Computational Projects

DR R. E. HUNT AND OTHERS
M. W. F. 2, *MR2* (six lectures)

Coding and Cryptography

DR T. K. CARNE
Tu. Th. S. 9, *MR3*

Statistical Modelling

DR R. B. GRAMACY
Tu. Th. S. 10, *MR3*

Classical Dynamics

PROF. J. C. B. PAPALOIZOU
Tu. Th. S. 11, *MR2*

Dynamical Systems

PROF. J. R. LISTER
Tu. Th. S. 12, *MR3*

Topics in Analysis

DR N. WICKRAMASEKERA
M. W. F. 10, *MR3*

Cosmology

DR E. P. S. SHELLARD
M. W. F. 11, *MR3*

Geometry and Groups

PROF. N. I. SHEPHERD-BARRON
M. W. F. 12, *MR3*

Mathematical Biology

PROF. R. E. GOLDSTEIN
Tu. Th. S. 10, *MR3*

D COURSES

Graph Theory

PROF. I. B. LEADER
M. W. F. 9, *MR2*

General Relativity

PROF. H. OSBORN
M. W. F. 9, *MR3*

Fluid Dynamics

PROF. M. R. E. PROCTOR
M. W. F. 10, *MR5*

Principles of Quantum Mechanics

DR J. M. EVANS
M. W. F. 12, *MR2*

Applied Probability

PROF. Y. M. SUHOV
M. W. F. 12, *MR3*

Probability and Measure

PROF. L. C. G. ROGERS
M. W. F. 11, *MR3*

Computational Projects

DR R. E. HUNT AND OTHERS
M. W. F. 2, *MR2* (six lectures)

Partial Differential Equations

DR D. M. A. STUART
Tu. Th. S. 9, *MR4*

Linear Analysis

PROF. T. W. KÖRNER
Tu. Th. S. 10, *MR9*

Electrodynamics

DR J. M. STEWART
Tu. Th. 10, *MR14*

Optimization and Control

PROF. J. R. NORRIS
Tu. Th. 11, *MR3*

Riemann Surfaces

DR A. G. KOVALEV
Tu. Th. S. 11, *MR13*

Galois Theory

PROF. I. GROJNOWSKI
Tu. Th. S. 12, *MR2*

Non-Examinable Courses**Topics in the History of Mathematics: Ancients to the Renaissance**

DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences, Room 9*

Stochastic Financial Models

DR P. K. FRIZ
M. W. F. 9, *MR2*

Numerical Analysis

DR A. SHADRIN
M. W. F. 9, *MR4*

Waves

PROF. J. M. RALLISON
M. W. F. 10, *MR4*

Logic and Set Theory

PROF. J. M. E. HYLAND
M. W. F. 11, *MR2*

Representation Theory

PROF. B. J. TOTARO
M. W. F. 11, *MR4*

Principles of Statistics

PROF. A. P. DAWID
M. W. F. 12, *MR2*

Applications of Quantum Mechanics

PROF. N. S. MANTON
Tu. Th. S. 9, *MR2*

Differential Geometry

DR M. DAFERMOS
Tu. Th. S. 9, *MR4*

Algebraic Topology

DR C. BIRKAR
Tu. Th. S. 11, *MR2*

Statistical Physics

DR M. WINGATE
Tu. Th. 11, *MR9*

Asymptotic Methods

DR P. D. D'EATH
Tu. Th. 11, *MR4*

Number Fields

DR M. STRAUCH
Tu. Th. 12, *MR2*

Integrable Systems

DR M. DUNAJSKI
Tu. Th. 12, *MR4*

Topics in the History of Mathematics: Renaissance to the 19th Century

DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences, Room 9*

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III

All lectures are held at the *Centre for Mathematical Sciences, Clarkson Road* unless otherwise stated.
There will be a meeting in *MR2* on Wednesday 3 October 2007 at 9.00 a.m. for all those who intend to offer courses in Part III.

There is a series of meetings for Part III students in MR2, Centre for Mathematical Sciences, at 4.15 p.m. on the following topics:

9 October 2007: PhD applications to Cambridge and other universities

17 October 2007: Exams and lectures

24 October 2007: How to write a Part III essay

21 November 2007: Research opportunities in Cambridge

MICHAELMAS 2007

LENT 2008

EASTER 2008

Introduction to Functional Analysis

DR D. J. H. GARLING
M. W. F. 9, *MR4*

Advanced Financial Models

DR M. TEHRANCHI
M. W. F. 9, *MR9*

Non-abelian Lubin-Tate Theory

DR T. YOSHIDA
M. W. F. 9, *MR11*

Fundamentals of Atmosphere-Ocean Dynamics

PROF. M. E. MCINTYRE
M. W. F. 9, *MR14*

General Relativity

DR J. M. STEWART
M. W. F. 10, *MR2*

Category Theory

PROF. P. T. JOHNSTONE
M. W. F. 10, *MR4*

Statistical Theory

DR R. J. SAMWORTH
M. W. F. 10, *MR12*

The Fluid Dynamics of Energy Production

DR C. P. CAULFIELD AND PROF. A. WOODS
M. W. F. 10, *MR13*

Brain Imaging Methods via Electro and Magneto Encephalography

PROF. A. S. FOKAS AND PROF. G. DASSOIS
M. W. 10, *MR14*

Commutative Algebra

DR M. STRAUCH
M. W. F. 11, *MR4*

Advanced Probability

PROF. G. R. GRIMMETT
M. W. F. 11, *MR5*

Symmetry and Particle Physics

DR J. B. GUTOWSKI
M. W. F. 11, *MR9*

Soft Matter

PROF. R. GOLDSTEIN
M. W. F. 11, *MR14*

Symmetric Dynamical Systems

DR J. H. P. DAWES
M. W. F. 11, *MR15*

Differential Geometry

PROF. P. M. H. WILSON
M. W. F. 12, *MR4*

Quantum Information, Entanglement and Nonlocality

DR A. P. A. KENT, DR B. GROISMAN AND DR J. OPPENHEIM
M. W. 12, *MR5*

Mathematics of Operational Research

PROF. R. R. WEBER
M. W. F. 12, *MR9*

The Standard Model

DR B. ALLANACH
M. W. F. 9, *MR3*

Elliptic Curves

DR T. A. FISHER
M. W. F. 9, *MR5*

Monte Carlo Inference+

DR R. B. GRAMACY
M. W. F. 9, *MR9* (first sixteen lectures)

Time Series+

DR S. M. PITTS
M. W. F. 9, *MR9* (eight lectures)

Decision Problems in Group Theory

PROF. A. GLASS
M. W. F. 9, *MR14*

Stellar and Planetary Magnetic Fields

PROF. M. R. E. PROCTOR
M. W. F. 9, *MR15*

Physical Cosmology

PROF. M. PETTINI
M. W. F. 10, *MR5*

String Theory

PROF. M. B. GREEN
M. W. F. 10, *MR9*

Iwasawa Theory of Elliptic Curves and Complex Multiplications

PROF. J. H. COATES
M. W. F. 10, *MR11*

Applied Bayesian Statistics

PROF. D. SPIEGELHALTER
M. W. 10, *MR12* and *CATAM room*

Ergodic Theory

PROF. B. J. GREEN
M. W. F. 10, *MR13*

Numerical Analysis of Partial Differential Equations

PROF. A. ISERLES
M. W. F. 10, *MR14*

Algebraic Cycles

PROF. B. J. TOTARO
M. W. F. 10, *MR15*

Complex Manifolds

DR A. G. KOVALEV
M. W. F. 11, *MR5*

Black Holes

DR H. S. REALL
M. W. F. 11, *MR9*

Mathematical Aspects of Quantum Information Theory

DR N. DATTA
M. W. F. 11, *MR11*

Stochastic Networks

PROF. F. P. KELLY
M. W. F. 11, *MR12*

Non-commutative Algebras

DR C. J. B. BROOKES
M. W. F. 11, *MR13*

Solitons and Instantons

DR D. M. A. STUART
M. Tu. Th. F. 9, *MR9*

Quantum Cosmology

DR P. D'EATH
M. Tu. Th. F. 10, *MR9*

Supergravity

PROF. A. C. DAVIS
M. Tu. Th. F. 11, *MR9*

Twistor Theory

MISS I. BORZYM
M. Tu. Th. F. 12, *MR9*

Applied Statistics

DR B. D. M. TOM
Tu. Th. 10, *MR12* (Four lectures and four classes)

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

MICHAELMAS 2007

LENT 2008

EASTER 2008

Structure and Evolution of Stars

PROF. J. C. B. PAPALOIZOU
M. W. F. 12, *MR11*

Philosophy of Classical and Quantum Mechanics

PROF. J. BUTTERFIELD
M. 4.30–6, *MR14*

Quantum Field Theory

DR D. TONG
Tu. Th. S. 9, *MR2*

Local Fields

DR T. DOKCHITSER
Tu. Th. 9, *MR10*

Topics in Group Theory

DR J. BUTTON
Tu. Th. 9, *MR12*

Approximation Theory

DR A. SHADRIN
Tu. Th. S. 9, *MR13*

Cosmology

PROF. N. G. TUROK
Tu. Th. S. 10, *MR2*

Algebraic Number Theory

DR V. DOKCHITSER
Tu. Th. S. 10, *MR5*

Lie Algebras

DR M. B. BATCHELOR
Tu. Th. S. 10, *MR10*

Quantum Cryptography

DR M. CHRISTANDL
Tu. Th. 10, *MR13*

Combinatorics

PROF. A. G. THOMASON
Tu. Th. 11, *MR4*

Algebraic Geometry

DR C. BIRKAR
Tu. Th. S. 11, *MR5*

Astrophysical Fluid Dynamics

DR G. I. OGILVIE
Tu. Th. S. 11, *MR9*

Statistical Theory and Applications

PROF. R. R. HORGAN and DR M. WINGATE
Tu. Th. S. 11, *MR11*

Computer-aided Geometric Design

DR M. A. SABIN
Tu. Th. 11, *MR14*

Introduction to Quantum Computing

DR A. S. KAY
Tu. Th. 12, *MR4*

Algebraic Topology

DR I. SMITH
Tu. Th. S. 12, *MR5*

Algebraic Groups

PROF. N. I. SHEPHERD-BARRON
Tu. Th. S. 12, *MR9*

Arithmetic Combinatorics

PROF. W. T. GOWERS
Tu. Th. S. 12, *MR11*

Applied Statistics

DR S. M. PITTS
Tu. Th. 12, *MR12*

Perturbation and Stability Methods

PROF. J. M. RALLISON and DR S. J. COWLEY
Tu. Th. S. 12, *MR13*

Partial Differential Equations

DR N. WICKRAMASEKERA
M. W. F. 9, *MR5*

Waves in Fluids

PROF. N. PEAKE and DR O. RATH-SPIVACK
M. W. F. 11, *MR14*

Introduction to Data Mining

PROF. D. L. BANKS
M. W. 11, *MR15*

Supersymmetry and Extra Dimensions

PROF. F. QUEVEDO
M. W. F. 12, *MR9*

Calculus and Algebra

PROF. I. GROJNOWSKI
M. W. F. 12, *MR11*

Spectral Geometry

DR D. BARDEN
M. W. F. 12, *MR13*

Partial Differential Equations in Modelling of Semiconductors

PROF. P. MARKOWICH
M. W. F. 12, *MR14*

Environmental Fluid Dynamics

DR S. DALZIEL
M. W. 12, *MR15*

Quantum Control

DR S. SCHIRMER
M. W. 2, *MR15*

Philosophy of Classical and Quantum Mechanics

PROF. J. BUTTERFIELD
M. 4.30–6, *MR14*

Statistics in Medical Practice ++

PROF. S. BIRD, PROF. D. SPIEGELHALTER, PROF. V. FAREWELL
W. 4–6 p.m., *MR13 (six hours)*

Sets

DR T. E. FORSTER
Tu. Th. S. 9, *MR5*

Advanced Cosmology

DR E. P. S. SHELLARD
Tu. Th. 9, *MR9*

Slow Viscous Flows

PROF. E. J. HINCH
Tu. Th. 9, *MR11*

Representation of Finite Groups of Lie Type

DR A. STASINSKI
Tu. Th. F. 9, *MR11*

Stochastic Loewner Evolutions

PROF. J. R. NORRIS
T. Th. 9, *MR13*

Modular Representation Theory

DR S. MARTIN
Tu. Th. S. 10, *MR4*

Application of Differential Geometry to Physics

PROF. G. W. GIBBONS
Tu. Th. S. 10, *MR9*

The X-ray Transform in Geometry and Dynamics

DR G. P. PATERNAIN
Tu. Th. S. 10, *MR11*

Optimal Investment

PROF. L. C. G. ROGERS
Tu. Th. 12, *MR12*

Accretion Discs

PROF. J. E. PRINGLE
Tu. Th. 10, *MR13*

Combinatorial Probability

PROF. B. BOLLOBAS
Tu. Th. 10, *MR14*

Advanced Quantum Field Theory

PROF. H. OSBORN
Tu. Th. S. 11, *MR3*

Fibre Bundles

DR K. FELDMAN
Tu. Th. 11, *MR5*

Actuarial Statistics

DR. S. M. PITTS
Tu. Th. 11, *MR11*

Modular and Automorphic Forms

PROF. A. J. SCHOLL
Tu. Th. 9, *MR12*

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

MICHAELMAS 2007

LENT 2008

EASTER 2008

	<p>Stochastic Calculus and Applications DR N. BERESTYCKI Tu. Th. S. 11, <i>MR12</i></p> <p>Turbulence PROF. P. DAVIDSON Tu. Th. 11, <i>MR13</i></p> <p>Complex Differential Equations DR T. K. CARNE Tu. Th. S. 11, <i>MR14</i></p> <p>Galaxies PROF. R. C. KENNICUTT Tu. Th. S. 12, <i>MR5</i></p> <p>Survival Data ++ DR P. TREASURE Tu. Th. 10, <i>MR12 (ten hours)</i></p> <p>Macrophenomena from Microphysics DR VIET-HO HUANG Tu. Th. 12, <i>MR13</i></p> <p>Topological Groups PROF. T. W. KÖRNER Tu. Th. S. 12, <i>MR14</i></p>	
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+ These two courses constitute the twenty-four hour course in Time Series and Monte Carlo Inference

++ These two courses constitute the sixteen hour course in Biostatistics

COURSES INTENDED FOR GRADUATES (NON-EXAMINABLE)

<p>Demonstrations in Fluid Dynamics DR S. DALZIEL Th. 2, <i>Fluids Lab</i> (non-examinable)</p> <p>Analysis on the Discrete Hypercube DR D. J. H. GARLING M. W. F. 12, <i>MR12</i></p>	<p>Hypergraph Games PROF. I. LEADER M. W. F. 12, <i>MR4 (Eight lectures)</i></p>
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Faculty of Mathematics (continued)**M.PHIL. IN STATISTICAL SCIENCE**Lectures are held in the *Centre for Mathematical Sciences*, unless otherwise stated

MICHAELMAS 2007	LENT 2008	EASTER 2008
Advanced Financial Models DR M. TEHRANCHI M. W. F. 9, <i>MR9</i> *Statistical Theory DR R. J. SAMWORTH M. W. F. 10, <i>MR9</i> *Mathematics of Operational Research PROF. R. R. WEBER M. W. F. 12, <i>MR9</i> *Introduction to Probability DR N. BERESTYCKI Tu. Th. 11, <i>MR12</i> *Applied Statistics DR S. M. PITTS Tu. Th. 12, <i>MR12</i>	Monte Carlo Inference+ DR R. B. GRAMACY M. W. F. 9, <i>MR9</i> (first sixteen lectures) Time Series+ DR S. PITTS M. W. F. 9, <i>MR9</i> (last eight lectures) Applied Bayesian Statistics PROF. D. SPIEGELHALTER M. W. 10, <i>MR12</i> and CATAM room Introduction to Data Mining PROF. D. L. BANKS M. W. 11, <i>MR15</i> Statistics in Medical Practice ++ PROF. S. BIRD, PROF. D. SPIEGELHALTER, PROF. V. FAREWELL W. 4–6 p.m., <i>MR13</i> (six hours) Actuarial Statistics DR S. M. PITTS Tu. Th. 11, <i>MR11</i> Survival Data ++ DR P. TREASURE Tu. Th. 10, <i>MR12</i>	Applied Statistics (continued) DR B. D. M. TOM Tu. Th. 10, <i>MR12</i> (four lectures and four classes)

Candidates will be expected to have attended the basic courses (marked *) and an appropriate number of courses (and all will receive advice individually about this). Subject to the approval of the M.Phil. examiners, they may also offer for examination any Part III courses given by the Statistical Laboratory.

+These two courses constitute the twenty-four hour course in Time Series and Monte Carlo Inference

++These two courses constitute the sixteen hour course in Biostatistics

M.PHIL. IN COMPUTATIONAL BIOLOGYLectures are held in the *Centre for Mathematical Sciences*, unless otherwise stated

Disease Dynamics DR J. GOG AND OTHERS Tu. Th. 10, <i>MR15</i> Genome Informatics DR L. SMINK M. 9–11, <i>CATAM Lab.</i> Functional Genomics PROF. S. TAVARÉ AND OTHERS M. W. 12–2, <i>MR15 and CATAM Lab</i> Structural Biology DR J. HUPPERT AND OTHERS W. F. 10, <i>MR15</i>	Statistical Genetics PROF. S. TAVARÉ AND DR V. PLAGNOL W. F. 9, <i>MR12</i> System Biology DR G. VINNICOMBE AND DR J. PAULSSON M. W. 2–4, <i>MR5</i> Network Biology PROF. L. WERNISCH AND DR A. TESCHENDORF Tu. 10, <i>MR5</i> and F. 10 <i>MR12</i> Computational Neuroscience DR S. EGLEN Tu. Th. 12, <i>MR15</i>	Methods and Models in Genomics DR P. LIO W. F. 11–1, <i>MR15</i>
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