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.

First year mathematics students are recommended to attend the induction session which will be held from 9.30 a.m. to 10.45 a.m. on Wednesday 5 October 2005, in the *Cockcroft Lecture Theatre*.

A meeting will be held for all Part IA students on Friday 5 May 2006 at 2.00 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques.

Note that the non-examinable course on **Topics in the History of Mathematics** will be of interest to all students reading the Mathematical Tripos. This course will be given in the Michaelmas Term (**Ancients to the Renaissance**) and in the Lent Term (**Renaissance to the 19th century**). Full details are given below.

MICHAELMAS 2005 **LENT 2006** **EASTER 2006**

PART IA

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

Differential Equations.
PROF. M. G. WORSTER Tu. Th. S. 10

Algebra and Geometry.
PROF. P. K. TOWNSEND AND PROF. T. W. KÖRNER M. Tu. W. Th. F. S. 11

Numbers and Sets.
PROF. I. B. LEADER M. W. F. 10

Dynamics.
DR R. E. HUNT M. W. F. 10

Analysis I.
PROF. A. F. BEARDON M. W. F. 11

Vector Calculus.
DR M. DÖRRZAPF Tu. Th. S. 11

Probability.
DR D. P. KENNEDY Tu. Th. S. 10

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

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

Metric and Topological Spaces*.
DR I. SMITH M. W. F. 10, *Mill Lane Room 3* (Twelve lectures)

Special Relativity*.
PROF. M. B. GREEN Tu. Th. 12, *Mill Lane Room 3* (Eight lectures)

Computational Projects*.
DR N. NIKIFORAKIS AND OTHERS Tu. Th. 11, *Mill Lane Room 3* (Six lectures)

Non-Examinable Courses

Introduction to Physics**.
PROF. A. K. EKERT Tu. Th. 9, *Mill Lane Room 4* (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*

Topics in the History of Mathematics: Renaissance to the 19th Century.
DR P. BURSILL-HALL W. F. 4, *Centre for Mathematical Sciences, Room 9*

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) *Heycock Room*

Introduction to Computer Science.
PROF. A. HOPPER F. 12 (One lecture) *Heycock Room*

Foundations of Computer Science.
PROF. L. C. PAULSON M. W. F. 12 (Fifteen lectures, beginning 10 Oct.) *Heycock Room*

Algorithms.
DR K. A. FRASER M. W. F. 12 *Heycock Room* (Non-exammable course)

* Examined in Part IB of the Tripos.
** This course assumes no prior knowledge of A-level Physics.

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Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART IA (continued) AND PART IB

MICHAELMAS 2005	LENT 2006	EASTER 2006
Operating Systems I. DR S. M. HAND M. W. F. 12 (Eight lectures, beginning 14 Nov.) *Heycock Room*	Operating Systems I continued. DR S. M. HAND M. W. F. 12 (Eight lectures) *Heycock Room*	
Practical ML under Windows. DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Th. 2–4 or 4–6 (Two Thursday classes) *Lecture Theatre 1, William Gates Building*	Programming in Java. DR A. C. NORMAN M. W. F. 12 (Sixteen lectures, beginning 8 Feb.) *Heycock Room*	
Programming Practical Class. PROF. L. C. PAULSON AND DR F. H. KING Th. 2–4 (Three fortnightly classes, beginning 20 Oct. *or* 27 Oct.) *Cockcroft Building, Floor 4*	Programming Practical Class. DR F. H. KING AND DR A. C. NORMAN Th. 2–4 (Four fortnightly classes, beginning 29 Jan. or 26 Jan.) *Cockcroft Building, Floor 4*	Programming Practical Class. DR F. H. KING AND DR A. C. NORMAN Th. 1–4 (Two fortnightly classes, beginning 27 Apr. or 4 May.) *Cockcroft Building, Floor 4*
Assessed Exercise Work. M. or W. or F. 2–4 *Cockcroft Building, Floor 4*	Assessed Exercise Work. M. or W. or F. 2–4 *Cockcroft Building, Floor 4*	Assessed Exercise Work. M. or W. or F. 2-4 *Cockcroft Building, Floor 4*
How to Study Computer Science. DR A. C. NORMAN AND OTHERS Th. 5 (One lecture, 20 Oct.) *Arts School, Room A, Bene't Street*	How to install Linux. DR R. J. DOWLING Th. 5 (One lecture, 9 Feb) *Hopkinson Lecture Room*	Part IB Assessed Exercise Briefing. DR A. C. NORMAN AND DR J. K. FAWCETT Th. 4.30 (One lecture, 18 May) *Arts School, Room A*
Tick-Four Briefing. DR F. H. KING Th. 5 (One lecture, 27 Oct) *Hopkinson Lecture Room*	Revision Skills. DR N. A. DODGSON Th. 5 (One lecture, 9 Mar) *Arts School, Room A*	
Help Sessions. MR R. G. ROSS Th. 5 (Four classes, beginning 3 Nov.) *Hopkinson Lecture Room*		

Mathematics with Physics Option:

Students taking this third option should attend Algebra and Geometry, 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 (Course B version). 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.

Mechanics and Relativity. DR P. DUFFETT-SMITH M. W. F. 9 (First twenty lectures) *Chemical Laboratory, Lensfield Road*		
Fields, Oscillations and Waves. DR J. RILEY M. W. F. 9 (Last four lectures beginning 23 Nov.) *Chemical Laboratory, Lensfield Road*	Fields, Oscillations and Waves. DR J. RILEY M. W. F. 9 (First sixteen lectures) *Chemical Laboratory, Lensfield Road*	
	Statistical and Quantum Physics. DR P. ALEXANDER M. W. F. 9 (Last eight lectures beginning 27 Feb.) *Chemical Laboratory, Lensfield Road*	Statistical and Quantum Physics. DR P. ALEXANDER M. W. F. 9 (Twelve lectures) *Chemical Laboratory, Lensfield Road*

MATHEAMTICAL TRIPOS, PART IB

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

Methods. PROF. N. PEAKE Tu. Th. S. 11 Linear Algebra. PROF. J. SAXL M. W. F. 11 Analysis II. PROF. J. M. E. HYLAND Tu. Th. S. 10 Quantum Mechanics. DR A. P. A. KENT M. W. 10 Markov Chains. DR J. R. NORRIS Tu. Th. 12 (Twelve lectures) Fluid Dynamics. PROF. E. J. HINCH M. W. 12	Special Relativity. DR R. M. WILLIAMS M. W. F. 11 (last eight lectures, beginning 27 Feb.) Fluid Dynamics. DR N. BERLOFF W. F. 10 Complex Analysis. DR T. K. CARNE Tu. Th. 9 Quantum Mechanics. DR R. M. WILLIAMS M. W. F. 11 (first sixteen lectures ending 24 Feb.) Groups, Rings and Modules. DR C. J. B. BROOKES M. W. F. 9 Statistics. PROF. S. P. BROOKS M. Th. 10 Geometry. PROF. P. M. H. WILSON Tu. Th. 11 Electromagnetism. PROF. N. G. TUROK M. W. F. 12 (first sixteen lectures, ending 24 Feb.) Complex Methods. PROF. F. QUEVEDO Tu. Th. 12	Numerical Analysis. PROF. A. ISERLES M. W. F. 12 (Twelve lectures) Optimization DR M. R. TEHRANCHI M. W. F. 11 (Twelve lectures) Metric and Topological Spaces. DR I. SMITH M. W. F. 10 (Twelve lectures) Special Relativity. PROF. M. B. GREEN Tu. Th. 12 (Eight lectures)

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 Monday, 12 June 2006 for finalists who may continue to Part III of the Tripos in 2006–07. The meeting will be held in *MR2 at the Centre for Mathematical Sciences* at 11.15 a.m.

MICHAELMAS 2005 **LENT 2006** **EASTER 2006**

C COURSES

Topics in Analysis.
PROF. W. T. GOWERS M. W. F. 9, *MR 2*
Coding and Cryptography.
DR T. A. FISHER Tu. Th. S. 9, *MR 3*
Mathematical Biology.
PROF. M. R. E. PROCTOR Tu. Th. S. 12, *MR 2*
Further Complex Methods.
DR S. T. C. SIKLOS Tu. Th. S. 11, *MR 2*
Classical Dynamics.
DR D. TONG M. W. F. 10, *MR 3*
Computational Projects.
DR N. NIKIFORAKIS AND OTHERS M. W. F. 2 (six lectures), *MR 2*

Number Theory.
PROF. J. H. COATES M. W. F. 10, *MR 3*
Geometry of Group Actions.
PROF. B. J. TOTARO M. W. F. 9, *MR 3*
Statistical Modelling.
DR R. J. SAMWORTH M. W. F. 11, *MR 3*
Dynamical Systems.
DR J. R. LISTER Tu. Th. S. 10, *MR 3*
Cosmology.
DR E. P. S. SHELLARD M. W. F. 12, *MR 3*

D COURSES

Graph Theory.
DR A. G. THOMASON M. W. F. 12, *MR 2*
Galois Theory.
PROF. A. J. SCHOLL Tu. Th. S. 10, *MR 5*
Number Fields.
PROF. A. BAKER Tu. Th. 12, *MR 13*
Algebraic Topology.
PROF. C. B. THOMAS M. W. F. 10, *MR 5*
Probability and Measure.
DR S. GROSSKINSKY M. W. F. 11, *MR 3*
Principles of Statistics.
PROF. L. C. G. ROGERS M. W. F. 9, *MR 5*
Optimization and Control.
PROF. R. R. WEBER Tu. Th. 11, *MR 5*
Partial Differential Equations.
DR D. M. A. STUART M. W. F. 9, *MR 4*
Asymptopic Methods.
DR P. D. D'EATH Tu. Th. 10, *MR 4*
Principles of Quantum Mechanics.
DR J. M. EVANS M. W. F. 11, *MR 2*
Electrodynamics.
DR J. M. STEWART Tu. Th. 9, *MR 14*
Fluid Dynamics.
PROF. H. E. HUPPERT M. W. F. 12, *MR5*
Computational Projects.
DR N. NIKIFORAKIS AND OTHERS M. W. F. 2 (six lectures), *MR 2*

Logic and Set Theory.
PROF. P. T. JOHNSTONE Tu. Th. S. 10, *MR 2*
Representation Theory.
DR I. GROJNOWSKI M. W. F. 11, *MR 4*
Linear Analysis.
DR M. DAFERMOS Tu. Th. S. 9, *MR 4*
Riemann Surfaces.
DR A. G. KOVALEV Tu. Th. S. 11, *MR 13*
Differential Geometry.
DR G. P. PATERNAIN M. W. F. 12, *MR4*
Applied Probability.
PROF. Y. M. SUHOV Tu. Th. S. 10, *MR 4*
Stochastic Financial Models.
DR P. K. FRIZ Tu. Th. S. 12, *MR 2*
Integrable Systems.
PROF. A. S. FOKAS Tu. Th. 12, *MR 4*
Applications of Quantum Mechanics.
PROF. H. OSBORN M. W. F. 10, *MR 2*
Statistical Physics.
PROF. N. S. MANTON Tu. Th. 11, *MR 4*
General Relativity.
PROF. G. W. GIBBONS Tu. Th. 9, *MR 2*
Waves.
DR J. M. RALLISON M. W. F. 11, *MR 2*
Numerical Analysis.
DR A. SHADRIN M. W. F. 9, *MR 4*

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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 *MR 2* on Wednesday, 5 October 2005 at 9.30 a.m. for all those who intend to offer courses in Part III.

There is a series of meetings for Part III students in MR 2, Centre for Mathematical Sciences, at 4.15 p.m. on the following topics:
11 October 2005: PhD applications to Cambridge and other universities
19 October 2005: Exams and lectures
26 October 2005: How to write a Part III essay
23 November 2005: Research opportunities in Cambridge

MICHAELMAS 2005 **LENT 2006** **EASTER 2006**

DEPARTMENT OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS

Fundamentals of Atmosphere-Ocean Dynamics.
PROF. M. E. MCINTYRE M. W. F. 9, *MR 14*
Quantum Field Theory.
PROF. N. S. MANTON Tu. Th. S. 9, *MR 2*
Computational Methods in Fluid Dynamics.
PROF. E. J. HINCH AND DR P. D. METCALFE Tu. Th. 9, *MR 15* (non-examinable, but essays will be set)
General Relativity.
DR J. M. STEWART M. W. F. 10, *MR 2*
Slow Viscous Flow.
DR J. R. LISTER M. W. F. 10, *MR 15*
Cosmology.
PROF. N. G. TUROK AND PROF. A C. DAVIS Tu. Th. S. 10, *MR 2*
Magnetohydrodynamics and Turbulence.
DR A. SCHEKOCHIHIN M. W. F. 11, *MR 12*
Symmetry and Particle Physics.
DR J. B. GUTOWSKI M. W. F. 11, *MR 9*
Astrophysical Fluid Dynamics.
DR G. I. OGILVIE Tu. Th. S. 11, *MR 9*
Statistical Field Theory.
PROF. R. R. HORGAN Tu. Th. 11, *MR 13*
Computer-aided Geometric Design.
DR M. A. SABIN Tu. Th. 11, *MR 15*
Structure and Evolution of Stars.
PROF. J. C. B. PAPALOIZOU M. W. F. 12, *MR 3*
Nonlinear Continuum Mechanics.
PROF. J. R. WILLIS M. W. F. 12, *MR 14*
Approximation Theory.
DR A. SHADRIN M. W. F. 12, *MR 4*
Introduction to Quantum Computation.
PROF. A. EKERT Tu. Th. 12, *MR 3*
Solidification of Fluids.
PROF. M. G. WORSTER Tu. Th 12, *MR 14*
The Standard Model.
DR B. ALLANACH M. W. F. 9, *MR 2*
Stellar and Planetary Magnetic Fields.
PROF. M. R. E. PROCTOR M. W. F. 9, *MR 9*
Galaxies and Dark Matter.
PROF. G. F. GILMORE Tu. Th. S. 9, *MR 14*
Acoustics.
PROF. N. PEAKE Tu. Th. 9, *MR 9*
Physical Cosmology.
PROF. M. PETTINI M. W. F. 10, *MR 4*
String Theory.
PROF. M. B. GREEN M. W. F. 10, *MR 9*
Bifurcations and Instabilities in Dissipative Systems.
DR J. H. P. DAWES M. W. F. 10, *MR 14*
Advanced Cosmology.
DR E. P. S. SHELLARD Tu. Th. 10, *MR 9*
Hydrodynamic Turbulence.
DR P. A. DAVIDSON Tu. Th. 10, *MR 14*
Fourier Transforms their generalisations and the Imaging of the Brain.
PROF. T. FOKAS Tu. Th. 10, *MR 15*
Black Holes.
PROF. M. J. PERRY M. W. F. 11, *MR 9*
Numerical Solution of Differential Equations.
PROF. A. ISERLES M. W. F. 11, *MR 15*
Advanced Quantum Field Theory.
PROF. H. OSBORN Tu. Th. S. 11, *MR 2*
Quantum Information, Entanglement and Nonlocality.
DR A. P. A. KENT Tu. Th. 11, *MR 3*
Superfluid Vortices.
DR N. BERLOFF Tu. Th. 11, *MR 9*
Supersymmetry and Extra Dimensions.
PROF. F. QUEVEDO M. W. F. 12, *MR 2*
Geological Fluid Mechanics.
PROF. H. E. HUPPERT M. W. F. 12, *MR 15*
Applications of Differential Geometry to Physics.
PROF. G. W. GIBBONS Tu. Th. S. 12, *MR 3*
Macroscopic Behaviour of Microscopic Structures in Fluid and Solid Media.
DR V. H. HOANG Tu. Th. 12, *MR 5*
Control of Quantum Systems.
DR S. SCHIRMER M. W. 2, *MR 15*
Computational Neuroscience.
DR S. J. EGLEN Th. 2–4, *MR 12*
Demonstrations in Fluid Dynamics.
DR C. P. CAULFIELD AND DR M. M. SCASE Th. 2, *GK Batchelor Laboratory, CMS* (non-examinable)
Branes.
DR D. S. BERMAN M. Tu. Th. F. 10 *MR 9*
Solutions and Instatons.
DR M. DVNAJSKI M. Tu. Th. F. 11 *MR 9*
Quantum Cosmology.
DR P. D. D'EATH M. Tu. Th. F. 12 *MR 9*

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

A number of courses given by the Statistical Laboratory are available both to candidates for Part III and for the M.Phil. in Statistical Science.

Topics in Fourier Analysis.
PROF. T. W. KÖRNER M. W. F. 9, *MR 12*
Algebraic Geometry.
PROF. P. M. H. WILSON M. W. F. 9, *MR 3*
Differential Geometry.
DR M. DAFERMOS Tu. Th. S. 9, *MR 5*
Quasirandomness.
PROF. W. T. GOWERS Tu. Th. 9, *MR 4*
Introduction to Banach Spaces and Algebras.
DR G. R. ALLAN M. W. F. 10, *MR 4*
Noetherian Algebras.
DR K. ARDAKOV M. W. F. 10, *MR 13*
Probabilistic Combinatorics.
PROF. B. BOLLOBAS M. W. F. 9, *MR 5*
Symplectic Topology.
DR I. SMITH M. W. F. 9, *MR 13*
Smooth 4-manifolds.
DR T. PERUTZ Tu. Th. 9, *MR 5*
Topics in Infinite Groups.
DR J. BUTTON Tu. Th. 9, *MR 12*
Spectral Geometry.
DR D. BARDEN M. W. F. 10, *MR 5*
Cyclotomic Fields.
PROF. J. H. COATES Tu. Th. S. 12, *MR 14*

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS (continued)

MICHAELMAS 2005	LENT 2006	EASTER 2006
Complex Dynamics. PROF. A. F. BEARDON Tu. Th. S. 10, *MR 9* Combinatorics. PROF. I. B. LEADER Tu. Th. 10, *MR 3* Algebraic Topology. PROF. B. J. TOTARO M. W. F. 11, *MR 4* Curves and Jacobians. PROF. N. I. SHEPHERD-BARRON Tu. Th. S. 11, *MR 4* Category Theory. PROF. P. T. JOHNSTONE Tu. Th. S. 11, *MR 3* Lie Algebras and Representation Theory. DR M BATCHELOR M. W. F. 12, *MR 9* Representation of Compact Lie Groups. DR C. TELEMAN Tu. Th. S. 12, *MR 4* Topics in Number Theory. PROF. A. J. SCHOLL Tu. Th. 12, *MR 9*	Set Theory. DR T. E. FORSTER M. W. F. 11, *MR 5* Advanced Complex Variable. DR T. K. CARNE M. W. F. 11, *MR 13* Representation Theory of Symmetric Groups. DR S. MARTIN M. W. F. 11, *MR 14* Elliptic Curves. DR T. A. FISHER Tu. Th. S. 11, *MR 5* Topics in Banach Spaces. DR A. ZSAK Tu. Th. S. 11, *MR 14* Semigroups of Operators. DR D. J. H. GARLING M. W. F. 12, *MR 12* Analytic Number Theory. PROF. A. BAKER W. F. 12, *MR 14* The Geometric Langlands Programme. DR I. GROJNOWSKI Tu. Th. S. 12, *MR 13* Corbordism. DR K. FLEDMAN M. W. F. 12 *MR 5*	
Courses given by the Statistical Laboratory Advanced Financial Models. DR D. P. KENNEDY M. W. F. 9, *MR 9* Stochastic Networks. PROF. F. P. KELLY M. W. 10, *MR 12* Statistical Theory. DR R. J. SAMWORTH Tu. Th. S. 10, *MR 12* Rough Paths. DR P. K. FRIZ Tu. Th. 10, *MR 13* Advanced Probability. DR G. MIERMONT M. W. F. 11, *MR 5* Information and Coding. DR O. T. JOHNSON Tu. Th. 11, *MR 12* Mathematics of Operational Research. PROF. R. R. WEBER M. W. F. 12, *MR 12* Applied Statistics. DR S. M. PITTS Tu. Th. 12, (eight lectures and eight classes) *MR 12*	***Courses given by the Statistical Laboratory*** Time Series+. DR S. PITTS M. W. F. 9, (eight lectures) *MR 12* Monte Carlo Inference+. DR R. DEARDON M. W. F. 9, (sixteen lectures starting 8 Feb.) *MR 12* Optimal Investment. PROF. L. C. G. ROGERS Tu. Th. 9, *MR 3* Stochastic Calculus and Applications. DR J. R. NORRIS AND DR C. A. GOLDSCHMIDT M. W. F. 10, *MR 12* Survival Data++. DR F. P. TREASURE Tu. Th. 10, (ten lectures and two classes, starting 24 Jan.) *MR 12* Statistics in Medical Practice++. DR S. BIRD, DR V. FAREWELL AND DR D. SPIEGELHALTER W. 4-6 p.m., (six hours) *MR 13* Interacting Particle Systems. PROF. G. R. GRIMMETT M. W. F. 11, *MR 12* Actuarial Statistics. DR S. M. PITTS Tu. Th. 11, *MR 12* Quantum Information Theory. DR N. DATTA M. W. F. 12, *MR 9* Spread of Epidemics and Rumours. DR M. DRAIEF AND DR L. MASSOULI Tu. Th. 12, *MR 9* Applied Multivariate Analysis. PROF. S. P. BROOKS Tu. Th. 12, *MR 12* Statistical and Population Genetics. DR D. CLAYTON, DR H. CORDELL AND PROF. S. TAVARÉ M. 4–6 p.m. (sixteen hours) *MR 13*	Applied Statistics. DR B. D. M. TOM Tu. Th. 10, (four lectures and four classes) *MR 12*
Advanced Algebraic Geometry. PROF. A. CORTI M. W. F. 12, *MR 13*		Stochastic Loewner Evolutions. DR J. R. NORRIS M. Tu. W. F. 10, *MR 13* Topics in Analysis and Calculus of Variations. DR S. DEMOULINI M. Tu. W. F. 11, *MR 12* Simple Algebraic Groups and the Topology of Lie Groups. PROF. B. TOTARO M. W. F. 12, (eight lectures) *MR 12*

+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)

	Braver Groups. PROF. N. I. SHEPHERD-BARRON Tu. Th. S. 10 *MR 13*	

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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 2005	LENT 2006	EASTER 2006
Introduction to Probability. DR M. TEHRANCHI Tu. Th. 9, *MR 12* Statistical Theory*. DR R. J. SAMWORTH Tu. Th. S. 10, *MR 12* Mathematics of Operational Research*. PROF. R. R. WEBER M. W. F. 12, *MR 12* Applied Statistics*. DR S. M. PITTS Tu. Th. 12, *MR 12* (eight lectures and eight classes) Advanced Financial Models. DR D. P. KENNEDY M. W. F. 9, *MR 9*	Time Series+. DR S. PITTS M. W. F. 9, *MR 12* (eight lectures) Monte Carlo Inference+. DR R. DEARDON M. W. F. 9, *MR 12* (sixteen lectures starting 8 Feb.) Survival Data++. DR F. P. TREASURE Tu. Th. 10, *MR 12* (ten lectures and two classes, starting 24 Jan.) Actuarial Statistics. DR S. M. PITTS Tu. Th. 11, *MR 12* Applied Multivariate Analysis. PROF. S. P. BROOKS Tu. Th. 12, *MR 12* Statistics in Medical Practice++. DR S. BIRD, DR V. FAREWELL AND DR D. SPIEGELHALTER W. 4–6 p.m., *MR 13* (six hours) Statistical and Population Genetics. DR D. CLAYTON, DR H. CORDELL AND PROF. S. TAVARÉ M. 4–6 p.m., *MR 13* (sixteen hours)	Applied Statistics (continued). DR B. D. M. TOM Tu. Th. 10, *MR 12* (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 BIOLOGY

Lectures are held in the *Centre for Mathematical Sciences*, unless otherwise stated.

Structural Biology. DR K. MIZUGUCHI AND OTHERS Th. 10–12, *MR 14* Genome Informatics I. DR L. SMINK Tu. 9 – 11, *Computer Laboratory, CMS* Functional Genomics. DR S. EGLEN W. 11–1, *MR 15* Seminar Series. W. 2–4, *MR 5*	Statistical Methods in Bioinformatics. PROF. S. TAVARE AND OTHERS M. W. 10, *MR 13* Computational Neuroscience. DR S. EGLEN Th. 2–4, *MR 12* Statistical and Population Genetics (Option A). DR D. CLAYTON, DR H. CORDELL AND PROF. S. TAVARÉ M. 4–6, *MR 13* (sixteen hours) Monte Carlo Inference (Option B). DR R. DEARDON M. W. F. 9, *MR 12* (sixteen hours, starting on 8 Feb.) Seminar Series. W. 2-4, *MR 5*	Systems Biology. DR J. PAULSSON M. Tu. W. Th. 4–6, *MR 11* (sixteen hours) Methods and Models in Genomics. DR P. LIO W. F. 11–1, *MR 11*

OTHER MEETINGS

A meeting will be held on 6 October 2005 at 2 p.m. in *MR 4* for new supervisors (primarily those new to Cambridge).
A seminar will be held on 11 October 2005 at 2 p.m. in *MR 4* for all supervisors.