Lectures Proposed by the Board of the Faculty of Mathematics

For particulars of the University Composition Fee and the fees payable for attendance at separate courses of lectures see p. 2. 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

MATHEMATICAL TRIPOS

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

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 4 October 2000, *in the Cockcroft Lecture Theatre*.

MICHAELMAS 2000 | **LENT 2001** | **EASTER 2001**

PART IA

Algebra and Geometry
DR A. F. BEARDON AND DR P. H. HAYNES M. Tu. W. Th. F. S. 11
Differential Equations
PROF. D. O. GOUGH Tu. Th. S. 10
Numbers and Sets
DR I. B. LEADER M. W. F. 10

Analysis I
DR H. T. CROFT Tu. Th. S. 11
Probability
PROF. F. P. KELLY M. W. F. 10
Vector Calculus
DR S. T. C. SIKLOS M. W. F. 11
Dynamics
DR J. M. STEWART Tu. Th. S. 10
Linear Mathematics*
PROF. A. M. W. GLASS Tu. Th. S. 9 *Mill Lane Room 9*

Complex Methods*
DR T. W. KORNER M. Tu. Th. S. 10 (Sixteen lectures)
Special Relativity*
DR A. C. DAVIS W. F. 10 (Eight lectures)
Geometry*
DR T. K. CARNE Tu. Th. S. 9 (Twelve lectures) *Mill Lane Room 3*
Optimization*
DR Y. SUHOV M. W. F. 11 (Twelve lectures)
Numerical Analysis*
DR A. SHADRIN M. W. F. 12 (Twelve lectures) *Mill Lane Room 9*
Computational Projects**
DR Y. GIT Tu. Th. 11 (Six lectures)

Non-Examinable Courses
Introduction to Physics***
PROF. G. W. GIBBONS M. W. 9 (Twelve lectures) *Mill Lane Room 9*
Topics in the History of Mathematics
DR P. BURSILL-HALL M. W. F. 4 *Mill Lane Room 9*

Mathematics with Computer Science Option:

Students taking this option should attend Algebra and Geometry, Analysis I, Vector Calculus, Differential Equations 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.

Introduction to Computer Science
PROF. I. M. LESLIE Th. 12 (One lecture)
Foundations of Computer Science
DR L. C. PAULSON Tu. Th. S. 12 (Fifteen lectures, beginning 7 Oct.)
Discrete Mathematics
DR P. ROBINSON Tu. Th. S. 12 (Eight lectures, beginning 11 Nov.)

Practical ML under Windows
DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Th. 2–4 *or* 4–6 (Two classes) *Hopkinson Lecture Room*
Programming Practical Class
DR L. C. PAULSON AND DR F. H. KING Th. 2–4 (Three fortnightly classes, beginning 19 Oct. *or* 26 Oct.) *Cockcroft Building, Floor 4*
How to Study Computer Science
DR A. C. NORMAN AND OTHERS Th. 5 (One lecture, 19 Oct.) *Arts School, Room A*
Tick-Four Briefing
DR F. H. KING Th. 5 (One lecture, 26 Oct.) *Hopkinson Lecture Room*
Help Sessions
A. N. OTHER Th. 4 (Four classes, beginning 2 Nov.) *Hopkinson Lecture Room*

The same continued
DR P. ROBINSON Tu. Th. S. 12 (Eight lectures)

Programming in Java
DR A. C. NORMAN Tu. Th. S. 12 (Sixteen lectures, beginning 6 Feb.)

Programming Practical Class
DR F. H. KING Th. 2–4 (One class, 18 Jan *or* 25 Jan.) *Cockcroft Building Floor 4*

UNIX Registration
DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Th. *or* F. 1.30–4 (One class, 1 Feb. *or* 2 Feb. *or* 8 Feb) *Hopkinson Lecture Room*
Programming Practical Class
DR F. H. KING AND DR A. C. NORMAN Th. 2–4 (Two fortnightly classes, beginning 15 Feb. *or* 22 Feb.) *Cockcroft Building, Floor 4*

Operating Systems
DR S. M. HAND Tu. Th. S. 12

Programming Practical Class
DR F. H. KING AND DR A. C. NORMAN Th. 1–4 (Two fortnightly classes, beginning 26 Apr. *or* 3 May) *Cockcroft Building, Floor 4*

* Not examined in Part IA of the Tripos.
** Not examined in Part IA of the Tripos. CATAM (Computer-Aided Teaching of All Mathematics) practical sessions will be held during the last two weeks of full Easter Term. Examination credit in Part IB for this course will be gained by the submission of project files, and no questions will be set on it in the examination. The maximum credit available will be approximately equivalent to that for a normal course of 16 lectures, and will be added directly to the credit obtained in the written papers.
*** This course is intended for mathematics students who have not taken Physics A-level.

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART IA (continued) AND PART IB

MICHAELMAS 2000 | **LENT 2001** | **EASTER 2001**

Mathematics with Physics Option:

Students taking this option should attend Algebra and Geometry, Analysis I, Vector Calculus, Differential Equations and Probability from Part IA of the Mathematical Tripos, together with the lectures listed below from 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, p. 169.

Foundations of Classical and Statistical Physics
DR J. R. WALDRAM M. W. F. 9 *Chemical Laboratory, Lensfield Road*

Oscillations and Waves
DR J. R. BATLEY M. W. F. 9 (first twelve lectures) *Chemical Laboratory, Lensfield Road*
Fields, Relativity and Quantum Physics
DR J. R. CARTER M. W. F. 9 (last twelve lectures) *Chemical Laboratory, Lensfield Road*

The same continued

A meeting will be held for all Part IA students on Friday 4 May at 2 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques.

PART IB

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

Note some lectures start at 10.15 a.m., 11.15 a.m., 12.15 p.m.

Analysis II
DR P. T. JOHNSTONE Tu. Th. S. 9 *Room 3*
Methods
DR E. P. S. SHELLARD M. W. F. 9 *Room 3*
Quadratic Mathematics
PROF. J. H. COATES Tu. Th. 11 *Room 9*
Fluid Dynamics
PROF. H. E. HUPPERT Tu. Th. 12 *Room 9*
Quantum Mechanics
PROF. P. K. TOWNSEND Tu. Th. 10 *Room 9*
Linear Mathematics
DR C. J. B. BROOKES M. W. F. 10 *Room 9*
Electromagnetism*
PROF. N. O. WEISS M. W. 1 *Room 9*
Markov Chains*
PROF. G. R. GRIMMETT M. W. F. 12.15 *Room 9*

Complex Methods
DR P. D. D'EATH W. S. 9 *Room 3*
Special Relativity
PROF. G. W. GIBBONS Tu. Th. S. 10 (last eight lectures,beginning 24 Feb.) *Room 9*
Quantum Mechanics
PROF. M. B. GREEN Tu. Th. S. 10 (first sixteen lectures, ending 22 Feb.) *Room 9*
Fluid Dynamics
PROF. M. E. MCINTYRE M. F. 10 *Room 6*
Statistics
DR S. M. PITTS Tu. Th. 9 *Room 3*
Quadratic Mathematics
DR C. B. THOMAS Tu. Th. 11 *Room 9*
Further Analysis
DR H. T. CROFT M. F. 9 *Room 3*
Groups, Rings and Fields*
DR N. I. SHEPHERD-BARRON M. W. F. 11.15 *Room 9*
Dynamics of Differential Equations*
DR C. T. SPARROW M. W. F. 12.15 *Room 9*
Principles of Dynamics*
PROF. N. TUROK M. W. F. 10.15 *Room 9*
Functional Analysis*
DR D. J. H. GARLING Tu. Th. 12 *Room 9*

Numerical Analysis
DR A. SHADRIN M. W. F. 12 (Twelve lectures) *Room 9*
Geometry
DR T. K. CARNE Tu. Th. S. 9 (Twelve lectures) *Room 3*
Special Relativity
DR A. C. DAVIS W. F. 10 (Eight lectures) *Cockroft Lecture Theatre*
Complex Methods
DR T. W. KÖRNER M. Tu. Th. S. 10 (Sixteen lectures) *Cockcroft Lecture Theatre*
Optimization
DR Y. SUHOV M. W. F. 11 (Twelve lectures) *Cockcroft Lecture Theatre*

* Examined in the 20001 Part II (B) examination.

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART II

Candidates for Part II may offer either Alternative A or Alternative B.
All lectures will be held in the *Centre for Mathematical Sciences rooms (MR), Clarkson Road* unless otherwise stated.

MICHAELMAS 2000 **LENT 2001** **EASTER 2001**

ALTERNATIVE A

Number Theory
PROF. A. BAKER Tu. Th. 12 *MR 2*
Electromagnetism
DR J. P. DOUGHERTY M. W. F. 9 *MR 2*
Mathematical Methods
DR J. A. HUDSON W. S. 10 *MR 2*
Functional Analysis
DR A. ZSAK M. W. F. 11 *MR 2*
Algorithms and Networks
DR C. T. SPARROW Tu. F. 10 *MR 2*
Statistical Physics and Cosmology
PROF. P. K. TOWNSEND M. W. 11 *MR 4*
Logic, Computation and Set Theory
DR T. FORSTER Tu. Th. S. 9 (first sixteen lectures) *MR2*
Foundations of Quantum Mechanics
DR H. OSBORN M. Th. 10 *MR 2*
Principles of Statistics
DR G. A. YOUNG Tu. Th. S. 11 *MR 2*
Markov Chains
PROF. G. R. GRIMMETT M. W. F. 12.15 *Mill Lane Room 9*
Computational Projects
DR Y. GIT M. W. F. 2 (Six lectures) *Mill Lane Room 9*

Computational Statistics and Statistical Modelling
DR P. M. E. ALTHAM Tu. Th. 12 *MR 2*
Graph Theory
DR T. K. CARNE M. Th. 9 *MR 2*
Geometry of Surfaces
DR A. CORTI Tu. F. 9 *MR 4*
Quantum Physics
DR I. T. DRUMMOND Tu. Th. 12 *MR 4*
Transport Processes
PROF. T. J. PEDLEY Tu. F. 9 *MR 2*
Numerical Analysis
PROF. A. ISERLES Tu. Th. S. 10 *MR 2*
Stochastic Financial Models
DR D. P. KENNEDY W. S. 9 *MR 2*
General Relativity
DR P. D. D'EATH Tu. S. 11 *MR 2*
Theoretical Geophysics
DR J. LISTER M. Th. 9 *MR 4*
Principles of Dynamics
PROF. N. TUROK M. W. F. 10.15 *Mill Lane Room 9*
Groups, Rings and Fields
DR N. I. SHEPHERD-BARRON M. W. F. 11. 15 *Mill Lane Room 9*
Dynamics of Differential Equations
DR C. T. SPARROW M. W. F. 12.15 *Mill Lane Room 9*

Symmetries and Groups in Physics
DR M. DOERRZAPF M. Tu. Th. F. 11 (Twelve lectures) *MR 4*
Nonlinear Waves
PROF. N. MANTON M. Tu. Th. F. 9 (Twelve lectures) *MR 4*
Coding and Cryptography
DR J. SAXL M. Tu. Th. F. 10 (Twelve lectures) *MR 4*

ALTERNATIVE B

Hilbert Spaces
DR G. R. ALLAN Tu. Th. 12 *MR 3*
Applied Probability
PROF. F. P. KELLY Tu. F. 10 *MR 4*
Number Fields
DR J. NEKOVAR M. W. 9 *MR 4*
Electrodynamics
DR M. J. PERRY Tu. F. 10 *MR 3*
Fluid Dynamics II
DR J. M. RALLISON M. W. F. 9 *MR 3*
Methods of Mathematical Physics
DR S. T. C. SIKLOS M. W. F. 11 *MR 3*
Partial Differential Equations
DR D. M. A. STUART M. W. F. 12 *MR 2*
Information Theory
DR Y. SUHOV W. F. 12 *MR 3*
Algebraic Topology
PROF. B. TOTARO Tu. Th. 11 *MR 3*
Galois Theory
DR P. M. H. WILSON W. S. 10 *MR 3*
Logic, Computation and Set Theory
DR T. FORSTER Tu. Th. S. 9 *MR 2*
Foundations of Quantum Mechanics
DR H. OSBORN M. Th. 10 *MR 2*
Principles of Statistics
DR G. A. YOUNG Tu. Th. S. 11 *MR 2*
Computational Projects
DR Y. GIT M. W. F. 2 (Six lectures) *Mill Lane Room 9*

Differentiable Manifolds
DR D. BARDEN M. Th. 9 *MR 3*
Representation Theory
DR I. GROJNOWSKI M. W. F. 12 *MR 2*
Waves in Fluid and Solid Media
PROF. E. J. HINCH M. W. F. 12 *MR 3*
Statistical Physics
DR R. R. HORGAN W. F. 11 *MR 2*
Applications of Quantum Mechanics
PROF. P. V. LANDSHOFF M. W. F. 10 *MR 2*
Algebraic Curves
DR J. NEKOVAR Tu. Th. 10 *MR 3*
Probability and Measure
DR A. M. STACEY Tu. Th. S. 12 *MR 3*
Dynamical Systems
PROF. SIR PETER SWINNERTON-DYER M. Th. 11 *MR 2*
Combinatorics
DR A. THOMASON Tu. F. 9 *MR 3*
Optimization and Control
PROF. R. R. WEBER W. F. 10 *MR 3*
Riemann Surfaces
DR C. TELEMAN W. F. 11 *MR 3*
Numerical Analysis
PROF. A. ISERLES Tu. Th. S. 10 *MR 2*
Stochastic Financial Models
DR D. P. KENNEDY W. S. 9 *MR 2*
General Relativity
DR P. D. D'EATH Tu. S. 11 *MR 2*

A general introductory meeting will be held on Thursday 22 February 2001 for students interested in continuing to Part III of the Tripos in 2001–02. The meeting will be held in *MR2 at the Centre for Mathematical Sciences* at 4 p.m.

A meeting will be held on Friday 8 June 2001 for finalists who may continue to Part III of the Tripos in 2001–02. The meeting will be held in *MR2 at the Centre for Mathematical Sciences* at 2.15 p.m.

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 4 October 2000 at 9.30 a.m. for all those who intend to offer courses in Part III.

MICHAELMAS 2000 **LENT 2001** **EASTER 2001**

DEPARTMENT OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS

Renormalisation in Dynamical Systems
DR A. D. BURBANKS Tu. Th. 12 *MR 9*
Environmental Fluid Dynamics
DR S. B. DALZIEL, DR J. M. HOLFORD AND DR D. M. LEPPINEN M. W. F. 11 *MR 11*
Computational Methods for Fluid Mechanics
DR P. DELLAR AND PROF. E. J. HINCH (Non-examinable) Tu. Th. 11 *MR 9*; F. 10 *MR 12*
Quantum Field Theory
DR I. T. DRUMMOND Tu. Th. S. 9 *MR 3*
Astrophysical Fluid Dynamics
PROF. D. O'GOUGH M. W. F. 10 *MR 11*
Numerical Solution of Differential Equations
PROF. A. ISERLES Tu. Th. S. 9 *MR 9*
Population Dynamics
DR M. KEELING AND DR J. SWINTON M. W. 10 *MR 4*
Slow Viscous Flow
DR J. R. LISTER Tu. Th. S. 10 *MR 9*
Elementary Particle Physics
DR A. J. MACFARLANE M. W. F. 11 *MR 9*
The Fluid Dynamics of Swimming Organisms
PROF. T. J. PEDLEY M. W. F. 12 (Sixteen lectures, finishing 10 Nov.) *MR 9*
Formation, Structure and Evolution of Stars
PROF. J. E. PRINGLE AND DR C. A. TOUT M. W. F. 12 *MR 11*
Local and Global Bifurcations
MR J. H. P. DAWES Tu. Th. 11 *MR 11*
Computer-Aided Geometric Design
DR M. SABIN Tu. Th. 12 *MR 4*
Cosmology
DR E. P. S. SHELLARD Tu. Th. 10 *MR 11*
General Relativity
DR J. M. STEWART M. W. F. 9 *MR 9*
Magnetohydrodynamics
PROF. H. K. MOFFATT Tu. Th. 9 *MR 5*
Quantum Information Physics
DR A. P. A. KENT Details to be announced

Early Universe Cosmology
DR R. A. BATTYE AND DR R. CRITTENDEN Tu. Th. 12 *MR 9*
Atomic Astrophysics
DR A. BURGESS AND DR H. E. MASON M. W. F. 12 *MR 9*
Demonstrations in Fluid Mechanics
DR S. B. DALZIEL Th. 2 (Non-examinable) *Fluid Dynamics Laboratory, DAMTP, Silver Street*
Advanced Quantum Field Theory
DR J. M. EVANS Tu. Th. S. 11 *MR 3*
String Theory
PROF. P. GODDARD Tu. Th. S. 9 *MR 9*
Mechanics of Elastic Solids
DR J. A. HUDSON M. W. F. 9 *MR 11*
Dynamical Systems and Thermodynamic Formalism
PROF. K. KHANIN Tu. Th. 12 *MR 5*
Physical Cosmology
DR O. LAHAV M. W. F. 10 *MR 11*
Galaxies
PROF. D. LYNDEN-BELL M. W. F. 9 *MR 9*
Large-Scale Atmosphere-Ocean Dynamics
PROF. M. E. McINTYRE Tu. Th. 10 *MR 11*
Standard Model
DR H. OSBORN M. W. F. 10 *MR 9*
Black Holes
DR M. J. PERRY M. W. F. 11 *MR 9*
Symmetries and Patterns
DR M. R. E. PROCTOR M. W. F. 12 *MR 4*
Supersymmetry
DR F. QUEVEDO Tu. Th. 10 *MR 9*
Non-Newtonian Fluid Mechanics
DR J. M. RALLISON W. F. 11 *MR 11*
Approximation Theory
DR A. SHADRIN M. W. F. 11 *MR 4*
Magnetic Fields in Stars
PROF. N. O. WEISS Tu. Th. 11 *MR 9*
Acoustics and Stability
DR N. PEAKE AND DR R. E. HUNT Tu. Th. 9 *MR 11*
Mixing and Transport
DR P. H. HAYNES Tu. Th. S. 12 *MR11*

Applications of Differential Geometry to physics
PROF. G. W. GIBBONS M. Tu. Th. F. 10 *MR 5* (Sixteen lectures)
Advanced String Theory
PROF. M. B. GREEN M. Tu. Th. F. 11 *MR 5* (Sixteen lectures)
Accretion Discs
DR G. I. OGILVIE M. Tu. Th. F. 12 *MR 11* (Sixteen lectures)

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

DPMMS Part III courses are listed under four headings. General courses are intended to be of general mathematical interest. Basic courses are intended to give a broad introduction to specific topics. Additional courses may (but need not) be more advanced, and are likely to be of more specialised interest. Fourthly, 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.

Courses
Banach Algebras
DR G. R. ALLAN M. W. F. 12 *MR 12*
Differential Geometry
DR D. BARDEN Tu. Th. S. 11 *MR 5*
Linear Analysis
DR D. J. H. GARLING Tu. Th. S. 10 *MR 5*
Algebraic Topology
PROF. B. TOTARO M. W. F. 11 *MR 5*

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:
5 October 2000: PhD applications to Cambridge and other universities
12 October 2000: Exams and lectures
19 October 2000: How to write a Part III essay
16 November 2000: Research opportunities in Cambridge

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

MICHAELMAS 2000 | **LENT 2001** | **EASTER 2001**

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS (continued)

Basic Courses

Elliptic Curves
PROF. J. H. COATES M. W. F. 10 *MR 9*

Basic Algebraic Geometry
DR A. CORTI M. W. F. 12 *MR 4*

Lie Groups
DR C. B. THOMAS Tu. Th. S. 12 *MR 5*

Category Theory
DR T. LEINSTER M. W. F. 9 *MR 12*

Ramsey Theory
DR I. B. LEADER Tu. Th. 9 *MR 4*

Basic Courses

Noetherian Algebras
DR C. J. B. BROOKES M. W. F. 10 *MR 5*

Discrepancy Theory
DR M. WALTERS Tu. Th. 11 *MR 12*

Logic and Combinatorics
DR T. FORSTER Th. S. 9 *MR 5*

Probabilistic Combinatorics
DR A. THOMASON M. W. F. 10 *MR 4*

Topics in Group Theory
DR N. F. J. INGLIS Tu. Th. S. 10 *MR 5*

Three-dimensional manifolds
PROF. W. B. R. LICKORISH M. W. F. 11 *MR 12*

Additional Courses

Diophantine Analysis and Transcendence Theory
PROF. A. BAKER Tu. Th. 12 *MR 12*

Elliptic Functions and Elliptic Integrals
DR A. F. BEARDON M. W. F. 11 *MR 5*

Value Distribution of Analytic Functions
DR T. K. CARNE M. W. F. 12 *MR 5*

Topics in Representation Theory
DR I. GROJNOWSKI Tu. Th. S. 11 *MR 4*

Advanced Topics in Commutative Algebra
DR N. I. SHEPHERD-BARRON M. W. F. 9 *MR 5*

Complex Manifolds
DR P. M. H. WILSON Tu. Th. S. 10 *MR 4*

Courses given by the Statistical Laboratory

General

Advanced Probability
DR J. R. NORRIS M. W. F. 10 *MR 5*

Mathematics for Operational Research
DR R. J. GIBBENS M. W. F. 12 *MR 5*

Courses given by the Statistical Laboratory

General

Statistical Theory
DR G. A. YOUNG M. W. F. 10 *MR 12*

Basic

Quantum Information Theory
DR Y. SUHOV AND DR O. JOHNSON M. W. F. 11 *MR 12*

Applied Statistics
DR P. M. E. ALTHAM Tu. Th. 9 *MR 12*

Advanced Financial Models
DR D. P. KENNEDY M. W. F. 9 *MR 5*

Actuarial Statistics
DR S. M. PITTS Tu. Th. 12 *MR 12*

Survival Data
DR P. TREASURE Tu. Th. 10 *MR 12* (Ten lectures and two classes)

Case Studies in S-plus
DR R. J. GIBBENS Tu. Th. 4 (Four classes, starting 21 Nov.) *DL07* (Non-examinable)

Basic

Mathematical Models for Financial Management
PROF. M. A. H. DEMPSTER Th. 4–6 *Judge Institute*

Stochastic Calculus and Applications
DR J. R. NORRIS Tu. Th. S. 10 *MR 12*

Large Deviations and Queueing Theory
DR D. J. WISCHIK Tu. Th. 9 *MR 12*

Applied Multivariate Analysis
DR P. M. E. ALTHAM M. W. F. 9 *MR 12* (Fourteen lectures and two classes, ending 19 Feb.)

Statistics in Medical Practice
DR S. M. BIRD AND DR D. SPIEGELHALTER M. 4–6 (Four lectures, ending 12 Feb.) *MR 12*

Monte Carlo Inference
DR S. P. BROOKS Tu. Th. 11 (Eight lectures) *MR 5*

Statistical Genetics
DR D. CLAYTON AND DR H. CORDELL W. 2–4 (Four lectures, starting 24 Jan.) *MR 12*

Design of Experiments
DR S. M. PITTS M. W. F. 9 (Ten lectures and two classes, starting 21 Feb.) *MR 12*

Time Series
PROF. R. R. WEBER W. 12 (Eight lectures) *MR 12*

Basic

Applied Statistics
DR B. D. TOM Tu. Th. 9 (Eight lectures) *MR 12*

The following courses are combined for Part III examination purposes:
Experimental Design and Multivariate Analysis: Applied Multivariate Analysis (Lent) plus Design of Experiments (Lent)
Biostatistics: Survival Data (Michaelmas) plus Statistical Genetics (Lent) and Statistics in Medical Practice (Lent)
Time Series and Monteo Carlo Inference: Monte Carlo Inference (Lent) plus Time Series (Lent)

Faculty of Mathematics (continued)

M.PHIL. IN STATISTICAL SCIENCE

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

MICHAELMAS 2000

Mathematics for Operational Research*
DR R. J. GIBBENS M. W. F. 12 *MR 5*
Applied Statistics*
DR P. M. E. ALTHAM Tu. Th. 9 *MR 12*
Case Studies in S-plus*
DR R. J. GIBBENS Tu. Th. 4 (Four classes, starting 21 Nov.) *DL 07* (Non-examinable)
Probability*
DR Y. GIT M. W. 10 *MR 12*
Advanced Financial Models
DR D. P. KENNEDY M. W. F. 9 *MR 5*
Actuarial Statistics
DR S. M. PITTS Tu. Th. 12 *MR 12*
Survival Data
DR P. TREASURE Tu. Th. 10 *MR 12* (Ten lectures and two classes)

LENT 2001

Statistical Theory*
DR G. A. YOUNG M. W. F. 10 *MR 12*
Applied Multivariate Analysis
DR P. M. E. ALTHAM M. W. F. 9 (Fourteen lectures and two classes, ending 19 Feb.) *MR 12*
Statistics in Medical Practice
DR S. M. BIRD AND DR D. SEPIEGELHALTER M. 4–6 (Four lectures ending 12 Feb.) *MR 12*
Monte Carlo Inference
DR S. P. BROOKS Tu. Th. 11 (Eight lectures) *MR 5*
Statistical Genetics
DR D. CLAYTON AND DR H. CORDELL W. 2–4 (Four lectures starting 24 Jan.) *MR 12*
Design of Experiments
DR S. M. PITTS M. W. F. 9 (Ten lectures and two classes, starting 21 Feb.) *MR 12*
Time Series
PROF. R. R. WEBER W. 12 (Eight lectures) *MR 12*

EASTER 2001

Applied Statistics*
DR B. D. M. TOM Tu. Th. 9 (Eight lectures) *MR 12*

Candidates will be expected to have attended the basic courses (marked *) and an appropriate number of other 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 course given by the Statistical Laboratory.

COURSES INTENDED FOR GRADUATES

p-adic Methods in Number Theory
DR J. NEKOVAR M. F. 12 *MR 12*

Clifford Algebras
DR D. J. H. GARLING Tu. Th. 11 *MR 9*
Problems in Intuitive Geometry
DR H. T. CROFT Tu. Th. 2 (Eight lectures) *MR 4*

OTHER MEETINGS

A meeting will be held on 5 October 2000 at 2 p.m. in *MR 2* for new supervisors (primarily those new to Cambridge).
A seminar will be held on 26 October 2000 at 5 p.m. in *MR 2* for all supervisors.

continued >