

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, PART IA

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, 6 October 1999, in the *Cockcroft Lecture Theatre*.

| MICHAELMAS 1999 | LENT 2000 | EASTER 2000 |
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| Algebra and Geometry DR J. A. HUDSON AND DR J. SAXL M. Tu. W. Th. F. S. 10 Numbers and Sets DR T. K. CARNE M. W. F. 11 Differential Equations DR R. M. WILLIAMS Tu. Th. S. 11 Non-Examinable Courses ***Introduction to Physics PROF. N. TUROK M. W. 9 (Twelve lectures) <i>Arts School, Room C</i> Topics in the History of Mathematics DR P. BURSILL-HALL M. W. F. 4 <i>Mill Lane Room (6)</i> | Analysis I DR D. J. H. GARLING Tu. Th. S. 10 Vector Calculus DR S. J. COWLEY M. W. F. 10 Probability PROF. F. P. KELLY M. W. F. 11 Dynamics DR J. M. STEWART Tu. Th. S. 11 *Linear Mathematics PROF. A. M. W. GLASS Tu. Th. F. 9 <i>Arts School, Room A</i> | *Complex Methods DR H. T. CROFT M. Tu. Th. F. 10 (Sixteen lectures) *Special Relativity DR A. P. A. KENT W. S. 10 (Eight lectures) *Geometry PROF. W. T. GOWERS M. W. F. 12 (Twelve lectures) <i>Arts School, Room A</i> *Optimization DR Y. SUHOV M. W. F. 11 (Twelve lectures) *Numerical Analysis DR A. ISERLES Tu. Th. S. 9 (Twelve lectures) <i>Arts School, Room A</i> **Computational Projects DR R. E. HUNT Tu. Th. 11 (Six lectures) |

Mathematics with Computer Science Option:

Students taking this Option should attend Algebra and Geometry, Analysis I and 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.

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| 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 9 Oct.) Discrete Mathematics DR P. ROBINSON Tu. Th. S. 12 (Eight lectures, beginning 13 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 Thursday classes) <i>Hopkinson Lecture Room</i> Programming Practical Class DR L. C. PAULSON AND DR F. H. KING Th. 2-4 (Three fortnightly classes, beginning 21 Oct. or 28 Oct.) <i>Cockcroft Building, Floor 4</i> How to Study Computer Science DR A. C. NORMAN AND OTHERS Th. 5 (One lecture, 21 Oct.) <i>Arts School, Room A</i> Tick-Four Briefing DR F. H. KING W. 3 (One lecture, 27 Oct.) <i>Hopkinson Lecture Room</i> Help Sessions DR M. E. VAN INWEGEN Th. 4 (Four classes, beginning 4 Nov.) <i>Hopkinson Lecture Room</i> | 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 8 Feb.) Programming Practical Class DR F. H. KING Th. 2-4 (One class, 20 Jan. or 27 Jan.) <i>Cockcroft Building, Floor 4</i> Unix Registration DR F. H. KING, MISS C. H. NORTHEAST AND MR R. J. STIBBS Th. or F. 1, 30-4 (One class, 3 Feb. or 4 Feb. or 10 Feb.) <i>Hopkinson Lecture Room</i> Programming Practical Class DR F. H. KING AND DR A. C. NORMAN Th. 2-4 (Two fortnightly classes, beginning 17 Feb. or 24 Feb.) <i>Cockcroft Building, Floor 4</i> | 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 27 Apr. or 4 May) <i>Cockcroft Building, Floor 4</i> |
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* 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 sixteen 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 IB

Lectures for Part IB of the Mathematical Tripos will be held in the Arts School unless otherwise stated.

| MICHAELMAS 1999 | LENT 2000 | EASTER 2000 |
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| Analysis II DR P. T. JOHNSTONE M. W. F. 9 <i>Room A</i> Methods DR E. P. S. SHELLARD M. W. F. 12 <i>Room A</i> Linear Mathematics DR C. J. B. BROOKES Tu. Th. S. 12 <i>Room A</i> *Fluid Dynamics PROF. H. E. HUPPERT M. F. 10 <i>Mill Lane, Room 9</i> *Quadratic Mathematics DR A. CORTI Tu. Th. 9 <i>Room A</i> *Quantum Mechanics DR A. C. DAVIS Tu. Th. 10 <i>Mill Lane, Room 9</i> **Markov Chains PROF. G. R. GRIMMETT Tu. Th. S. 11 <i>Mill Lane, Room 9</i> ***Electromagnetism DR J. P. DOUGHERTY M. W. F. 11 <i>Mill Lane, Room 9</i> | Statistics PROF. R. R. WEBER M. F. 12 <i>Room A</i> Further Analysis DR P. M. H. WILSON W. S. 12 <i>Room A</i> Fluid Dynamics PROF. M. E. McINTYRE Tu. Th. 11 <i>Room B</i> Complex Methods DR S. T. C. SIKLOS Tu. Th. 12 <i>Room A</i> Quadratic Mathematics DR B. TOTARO Tu. Th. 9 <i>Mill Lane, Room 9</i> Quantum Mechanics PROF. M. B. GREEN M. W. S. 9 (Sixteen lectures, beginning 9 Feb.) <i>Room A</i> Special Relativity PROF. D. O. GOUGH M. W. S. 9 (Eight lectures, ending 7 Feb.) <i>Room A</i> **Principles of Dynamics DR C. T. WHELAN Tu. Th. S. 11 <i>Mill Lane, Room 9</i> **Functional Analysis DR C. J. READ M. W. F. 11 <i>Mill Lane, Room 9</i> **Groups, Rings and Fields DR J. M. E. HYLAND Tu. Th. S. 10 <i>Mill Lane, Room 9</i> **Dynamics of Differential Equations DR C. T. SPARROW M. W. F. 10 <i>Mill Lane, Room 9</i> | Geometry PROF. W. T. GOWERS M. W. F. 12 (Twelve lectures) <i>Room A</i> Optimization DR Y. SUHOV M. W. F. 11 (Twelve lectures) <i>Cockcroft Lecture Theatre</i> Numerical Analysis DR A. ISERLES Tu. Th. S. 9 (Twelve lectures) <i>Room A</i> |

* These courses are given again in the Lent Term.

** Not examined in Part IB of the Tripos.

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART II

Candidates for Part II may offer either Alternative A or Alternative B.

ALTERNATIVE A

Lectures for Alternative A will be held in Room 9 of the Mill Lane Lecture Rooms unless otherwise stated.

| MICHAELMAS 1999 | LENT 2000 | EASTER 2000 |
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| Markov Chains PROF. G. R. GRIMMETT Tu. Th. S. 11 Electromagnetism DR J. P. DOUGHERTY M. W. F. 11 Graph Theory DR T. K. CARNE Tu. 12, Th. 9 <i>Mill Lane, Room 7</i> Number Theory PROF. A. BAKER M. W. 12 <i>Arts School, Room C</i> Algorithms and Networks DR C. T. SPARROW Th. S. 12 Mathematical Methods PROF. J. R. WILLIS Tu. Th. 10 <i>Arts School, Room C</i> Statistical Physics and Cosmology PROF. P. K. TOWNSEND Tu. S. 9 <i>Mill Lane, Room 7</i> Logic, Computation and Set Theory DR T. FORSTER M. W. F. 9 (First sixteen lectures) Principles of Statistics DR G. A. YOUNG M. W. F. 12 Foundations of Quantum Mechanics DR H. OSBORN M. F. 10 <i>Arts School, Room B</i> General Relativity DR P. D. D'EATH W. S. 10 Computational Projects DR R. E. HUNT AND OTHERS M. W. F. 2 (Six lectures) | Principles of Dynamics DR C. T. WHELAN Tu. Th. S. 11 Functional Analysis DR C. J. READ M. W. F. 11 Groups, Rings and Fields DR J. M. E. HYLAND Tu. Th. S. 10 Dynamics of Differential Equations DR C. T. SPARROW M. W. F. 10 Geometry of Surfaces DR A. CORTI M. F. 10 <i>Mill Lane, Room 7</i> Computational Statistics and Statistical Modelling DR P. M. E. ALTHAM M. W. 12 Quantum Physics DR I. T. DRUMMOND M. F. 9 Theoretical Geophysics DR J. R. LISTER Tu. Th. 10 <i>Syndics</i> Transport Processes DR O. JENSEN W. 9, F. 12 Stochastic Financial Models DR D. P. KENNEDY Tu. Th. 12 Numerical Analysis PROF. M. J. D. POWELL Tu. Th. S. 9 <i>Arts School, Room C</i> | Coding and Cryptography DR T. W. KORNER M. Tu. Th. F. 11 (Twelve lectures) <i>Clarkson Road, Meeting Room 5</i> Symmetries and Groups in Physics PROF. N. TUROK M. Tu. Th. F. 10 (Twelve lectures) <i>Clarkson Road, Meeting Room 5</i> Nonlinear Waves PROF. N. O. WEISS M. Tu. Th. F. 9 (Twelve lectures) <i>Clarkson Road, Meeting Room 5</i> |

Meetings will be held on Friday, 9 June 2000 for finalists who may continue to Part III of the Tripos in 2000–2001. Those intending to take mainly Pure courses should attend at 2.15 p.m. in *DPMMS Seminar Room 1*, and those intending to take mainly Applied courses should attend at 4.30 p.m. in *DAMTP Room B*.

ALTERNATIVE B

Lectures for Alternative B are held in the Arts School unless otherwise stated.

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| Foundations of Quantum Mechanics DR H. OSBORN M. F. 10 <i>Room B</i> General Relativity DR P. D. D'EATH W. S. 10 <i>Mill Lane, Room 9</i> Logic, Computation and Set Theory DR T. FORSTER M. W. F. 9 <i>Mill Lane, Room 9</i> Principles of Statistics DR G. A. YOUNG M. W. F. 12 <i>Mill Lane, Room 9</i> Electrostatics DR M. J. PERRY W. 11, S. 9 <i>Room B</i> Fluid Dynamics DR J. RALLISON M. W. F. 9 <i>Room B</i> Methods of Mathematical Physics DR M. G. WORSTER Tu. Th. S. 12 <i>Room B</i> Galois Theory DR P. M. H. WILSON Tu. Th. 9 <i>Room B</i> Number Fields DR J. NEKOVAR M. F. 12 <i>Room B</i> Partial Differential Equations DR T. W. KORNER Tu. Th. S. 11 <i>Room B</i> Algebraic Topology DR N. I. SHEPHERD-BARRON Tu. Th. 10 <i>Room B</i> Hilbert Spaces DR G. R. ALLAN M. F. 11 <i>Room B</i> Optimization and Control PROF. R. R. WEBER Tu. Th. 9 (Sixteen lectures) <i>Room C</i> Information Theory DR Y. SUHOV W. S. 10 (Sixteen lectures) <i>Room C</i> Applied Probability DR D. CRISAN W. 11, S. 9 (Sixteen lectures) <i>Room C</i> Computational Projects DR R. E. HUNT AND OTHERS M. W. F. 2 (Six lectures) <i>Mill Lane, Room 9</i> | Numerical Analysis PROF. M. J. D. POWELL Tu. Th. S. 9 <i>Room C</i> Stochastic Financial Models DR D. P. KENNEDY Tu. Th. 12 <i>Mill Lane, Room 9</i> Dynamical Systems PROF. SIR PETER SWINNERTON-DYER Tu. Th. 11 <i>Room C</i> Statistical Physics DR R. R. HORGAN Tu. Th. 10 <i>Room B</i> Applications of Quantum Mechanics PROF. P. GODDARD M. W. F. 9 <i>Room B</i> Waves in Fluid and Solid Media PROF. E. J. HINCH M. W. F. 11 <i>Room B</i> Riemann Surfaces DR A. F. BEARDON M. F. 11 <i>Room C</i> Differentiable Manifolds DR D. BARDEN M. F. 10 <i>Room B</i> Representation Theory DR I. GROJNOWSKI Tu. Th. S. 9 <i>Room B</i> Combinatorics DR A. THOMASON W. S. 10 (Sixteen lectures) <i>Room B</i> Algebraic Curves PROF. J. H. COATES Tu. Th. 10 (Sixteen lectures) <i>Room C</i> Probability and Measure DR J. R. NORRIS M. W. F. 12 <i>Room B</i> | |
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Meetings will be held on Friday, 9 June 2000 for finalists who may continue to Part III of the Tripos in 2000–2001. Those intending to take mainly Pure courses should attend at 2.15 p.m. in *DPMMS Seminar Room 1*, and those intending to take mainly Applied courses should attend at 4.30 p.m. in *DAMTP Room B*.

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III

DEPARTMENT OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS

Lectures are held in the Department unless otherwise stated. "Syndics" means the lecture room in the Old Syndics Building (Old Press Site).

MICHAELMAS 1999

LENT 2000

EASTER 2000

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| Structure and Evolution of Stars PROF. D. O. GOUGH AND DR C. A. TOUT M. W. F. 9 Room A | Atomic Astrophysics DR A. BURGESS AND DR H. MASON M. W. F. 9 Room A | Advanced String Theory PROF. M. B. GREEN M. Tu. Th. F. 10 Clarkson Road, Meeting Room 4 |
| General Relativity DR J. M. STEWART M. W. F. 10 Room A | Turbulence, Mixing and Transport DR P. H. HAYNES AND DR J. C. VASSILICOS M. W. F. 10 Room A | |
| Elementary Particle Physics DR A. C. DAVIS M. W. F. 11 Room A | Symmetries and Patterns DR M. R. E. PROCTOR M. W. F. 11 Room A | |
| Physiological Fluid Dynamics PROF. T. J. PEDLEY AND DR O. JENSEN M. W. F. 12 Room A | Advanced Quantum Field Theory PROF. P. V. LANDSHOFF M. W. F. 12 Room A | |
| Population Dynamics DR M. KEELING AND DR J. SWINTON Tu. Th. 9 Room A | String Theory PROF. P. GODDARD Tu. Th. S. 9 Room A | |
| Cosmology DR E. P. S. SHELLARD Tu. Th. 10 Room A | Physical Cosmology PROF. G. P. EFSTATHIOU Tu. Th. 10 Room A | |
| Computer-aided Geometric Design DR M. SABIN Tu. Th. 11 Room A | Geological Fluid Mechanics PROF. H. E. HUPPERT Tu. Th. 12 Room A | |
| Quantum Statistical Field Theory DR I. T. DRUMMOND Tu. Th. 12 Room A | Early Universe Cosmology DR R. A. BATTYE AND DR R. CRITTENDEN M. W. 9 Room B | |
| Environmental Fluid Dynamics DR S. B. DALZIEL, DR G. R. HUNT AND DR J. M. HOLFORD M. W. F. 9 Room B | Galaxies DR O. LAHAV M. W. F. 10 Room B | |
| Local and Global Bifurcations DR A. M. RUCKLIDGE M. W. F. 10 Room B | Non-equilibrium Statistical Mechanics DR J. P. DOUGHERTY M. W. F. 11 Room B | |
| Astrophysical Fluid Dynamics DR S. M. TOBIAS Tu. Th. S. 11 Room B | Supersymmetry DR F. QUEVEDO Tu. Th. 11 Room B | |
| Acoustics and Stability DR R. E. HUNT AND DR N. PEAKE Tu. Th. 12 Room B | The Standard Model DR H. OSBORN M. W. F. 10 Syndics | |
| Computational Methods for Fluid Mechanics (Non-examinable) DR S. J. COWLEY, PROF. E. J. HINCH AND DR N. NIKIFORAKIS M. W. F. 11 Room B | Black Holes DR M. J. PERRY M. W. F. 11 Syndics | |
| Slow Viscous Flow DR J. RALLISON Tu. Th. 10 Room B | Numerical Analysis of Ordinary Differential Equations DR A. ISERLES M. W. F. 12 Syndics | |
| Quantum Field Theory PROF. N. MANTON Tu. Th. S. 9 Mill Lane, Room 9 | Large Scale Atmosphere-Ocean Dynamics PROF. M. MCINTYRE Tu. Th. 9 Syndics | |
| Quantum Theory and Density Functional Theory DR S. COLWELL AND PROF. N. HANDY M. F. 12 (Sixteen lectures) Room B | Demonstrations in Fluid Mechanics DR S. B. DALZIEL Tu. Th. 11 (Eight classes) (Non-examinable) Fluid Dynamics Laboratory | |
| | Elastic Waves DR J. A. HUDSON Tu. Th. 10 Room B | |
| | Phase Transitions and Collective Phenomena DR B. SIMONS Tu. Th. 12 Mott Seminar Room, Cavendish Laboratory | |
| | Renormalisation in Dynamical Systems DR A. D. BURBANKS Tu. Th. 10 Statistical Laboratory | |

There will be a meeting in Room A of the Arts School at 2.30 p.m. on Wednesday 6 October 1999 for those who intend to offer any DAMTP courses in Part III. It is particularly important that those who did not attend the briefing meeting for Cambridge students in June 1999 should come to this meeting.

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS

Courses given by the Statistical Laboratory are lectured there (16 Mill Lane) unless otherwise stated; other courses are lectured in the Mill Lane Lecture Rooms unless otherwise stated.

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 specialized interest. Fourthly, a number of courses given by the Statistical Laboratory are available both to candidates for Part III and for M.Phil. in Mathematical Statistics.

General Courses

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| Lie Algebras DR J. M. E. HYLAND M. W. F. 9 Room 6 |
| Algebraic Topology DR B. TOTARO M. W. F. 10 Room 6 |
| Differential Geometry DR D. BARDEN Tu. Th. S. 11 Room 6 |
| Functional Analysis and Spectral Theory DR D. J. H. GARLING Tu. Th. S. 10 Room 7 |

Faculty of Mathematics (continued)

MATHEMATICAL TRIPOS, PART III (continued)

MICHAELMAS 1999

LENT 2000

EASTER 2000

DEPARTMENT OF PURE MATHEMATICS AND MATHEMATICAL STATISTICS (continued)

Basic Courses

Complex Analysis
DR A. F. BEARDON Tu. Th. S. 9 Room 6

Category Theory
DR P. T. JOHNSTONE M. W. F. 11 Room 6

Algebraic Geometry
DR P. M. H. WILSON M. W. F. 12 Room 6

Extremal Graph Theory
DR A. G. THOMASON Tu. Th. S. 12 Room 6

Introduction to Algebraic Groups
DR K. RIETSCH Tu. Th. S. 10 Room 6

Additional Courses

p-adic Hodge-Tate Theory
PROF. J. H. COATES M. W. F. 12 Room 7

**Courses given by the Statistical Laboratory
General**

Advanced Probability
DR J. R. NORRIS M. W. F. 11 Room 7

*Mathematics for Operational Research
DR R. J. GIBBENS M. W. F. 10

Basic

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

*Stochastic Networks
PROF. F. P. KELLY AND DR P. B. KEY M. W. F. 12

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

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

*Monte Carlo Inference
DR S. PITTS Tu. Th. 11 (Eight lectures, starting 4 Nov.)

*Biological Sequence Analysis
DR G. MITCHISON AND DR R. DURBIN Tu. Th. 12

Basic Courses

Three Dimensional Manifolds
PROF. W. B. R. LICKORISH M. W. F. 10 Room 6

Analytic Number Theory
PROF. A. BAKER M. W. 12 Room 6

Discrete Isoperimetric Inequalities
DR O. M. RIORDAN Tu. Th. 9 Room 6

Modular Forms
DR J. NEKOVAR Tu. Th. S. 12 Room 6

Topics in Group Theory
DR J. SAXL M. W. F. 9 Room 7

Fourier Analysis
DR T. W. KORNER Tu. Th. S. 10 Room 7

Introduction to Modular Representation Theory
DR J. GROJNOWSKI Tu. Th. S. 11 Room 7

Quantum Communication Theory
DR Y. SUHOV Tu. Th. 12

Additional Courses

Several Complex Variables and Banach Algebras
DR G. R. ALLAN M. W. F. 9 Room 6

Value Distribution for Analytical Functions
DR T. K. CARNE M. W. F. 11 Room 6

Logic and Combinatorics
DR T. FORSTER Tu. Th. 11 Room 6

Grassmanians
DR A. CORTI M. W. F. 12 Room 7

**Courses given by the Statistical Laboratory
General**

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

Basic

*Applied Multivariate Analysis
DR P. M. E. ALTHAM M. W. F. 9 (Fourteen lectures and two classes, ending 21 Feb.)

*Statistics in Medical Practice
DR S. M. GORE AND DR D. SPIEGELHALTER M. 11 (Seven lectures and one class)

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

*Design of Experiments
DR S. PITTS M. W. F. 9 (Ten lectures and two classes, starting 23 Feb.)

*Actuarial Statistics
DR S. PITTS Tu. Th. 11

*Statistical Genetics
DR H. JONES AND DR D. CLAYTON Tu. 12 (Seven lectures and one class) Room 7

Stochastic Calculus and Applications
DR D. O. CRISAN Tu. Th. S. 10 Room 6

Mathematical Models in Financial Management
PROF. M. A. H. DEMPSTER Th. 4-6 Judge Institute

Large Deviations with Applications
DR S. R. E. TURNER Tu. Th. 9 Room 7

Basic

*Applied Statistics
DR S. PITTS M. W. F. 9 (Eight lectures)
Clarkson Road, Meeting Room 12

Courses given by the Statistical Laboratory marked * are given for the M.Phil. in Statistical Sciences, but may be taken for Part III. The following courses are combined for Part III examination purposes:

Experimental Design and Multivariate Analysis
Biostatistics

Applied Multivariate Analysis (Lent) plus Design of Experiments (Lent)
Survival Data (Michaelmas) plus Statistical Genetics (Lent) and Statistics in Medical Practice (Lent)

Time Series and Monte Carlo Inference

Monte Carlo Inference (Michaelmas) plus Time Series (Lent)

There will be a meeting in Room A of the Arts School at 10 a.m. on Wednesday 6 October 1999, of those who intend to offer any DPMMS courses in Part III. It is particularly important that those who did not attend the briefing meeting for Cambridge students in June 1999 should come to this meeting.

Faculty of Mathematics (continued)**M. PHIL. IN STATISTICAL SCIENCE***In the Statistical Laboratory, 16 Mill Lane, unless otherwise stated.***MICHAELMAS 1999****LENT 2000****EASTER 2000**

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| <p>Advanced Financial Models DR D. P. KENNEDY M. W. F. 9</p> <p>**Mathematics for Operational Research DR R. J. GIBBENS M. W. F. 10</p> <p>**Probability DR A. M. STACEY M. W. 11</p> <p>Stochastic Networks PROF. F. P. KELLY AND DR P. B. KEY M. W. F. 12</p> <p>**Applied Statistics DR P. M. E. ALTHAM Tu. Th. 9</p> <p>Survival Data DR P. TREASURE Tu. Th. 10 (Ten lectures and two classes)</p> <p>Monte Carlo Inference DR S. PITTS Tu. Th. 11 (Eight lectures, starting 4 Nov.)</p> <p>Biological Sequence Analysis DR G. MITCHISON AND DR R. DURBIN Tu. Th. 12</p> <p>**Case studies in S-Plus DR R. J. GIBBENS Tu. Th. 4 (Four classes, starting 16 Nov.) (Non-examinable)</p> | <p>Applied Multivariate Analysis DR P. M. E. ALTHAM M. W. F. 9 (Fourteen lectures and two classes, ending 21 Feb.)</p> <p>**Statistical Theory DR G. A. YOUNG M. W. F. 10</p> <p>Statistics in Medical Practice DR S. M. GORE AND DR D. SPIEGELHALTER M. 11 (Seven lectures and one class)</p> <p>Time Series PROF. R. R. WEBER W. 12 (Eight lectures)</p> <p>Design of Experiments DR S. PITTS M. W. F. 9 (Ten lectures and two classes, starting 23 Feb.)</p> <p>Actuarial Statistics DR S. PITTS Tu. Th. 11</p> <p>Statistical Genetics DR H. JONES AND DR D. CLAYTON Tu. 12 (Seven lectures and one class) <i>Room 7</i></p> | <p>**Applied Statistics DR S. PITTS M. W. F. 9 (Eight lectures) <i>Clarkson Road, Meeting Room 12</i></p> |
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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

Galois Cohomology
DR N. I. SHEPHERD-BARRON M. W. F. 10
(Twelve lectures) *Clarkson Road, Meeting Room 12*

Lectures in Intuitive Geometry
DR H. CROFT Tu. Th. 2 (Eight lectures)
DPMMS 1

OTHER LECTURES

The Origins of Automatic Computing, 1931–1961
PROF. H. TROPP Th. 4 *DPMMS 1*