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 5 October 2011, *in the Cockcroft Lecture Theatre.*

A meeting will be held for all Part IA students on Friday 11 May 2012 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. Full details are given below.

MICHAELMAS 2011 | **LENT 2012** | **EASTER 2012**

PART IA

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

Numbers and Sets
PROF. A. G. THOMASON
M. W. F. 10

Differential Equations
DR N. G. BERLOFF
M. W. F. 11

Vectors and Matrices
PROF. P. F. LINDEN
Tu. Th. S. 10

Groups
PROF. J. SAXL
Tu. Th. S. 11

The following courses are non-examinable

Introduction to Mechanics
DR S. T. C. SIKLOS
Tu. Th. 12, *Arts School, Room C, Bene't Street*

Probability
PROF. G. R. GRIMMETT
M. W. F. 11

Analysis I
PROF. G. P. PATERNAIN
Tu. Th. S. 10

Vector Calculus
DR J. M. EVANS
Tu. Th. S. 11

Dynamics and Relativity
PROF. D. TONG
Tu. 12, W. F. 10

The following course is non-examinable

Topics in the History of Mathematics: Renaissance to Enlightenment
DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences, MR3*

Optimisation*
DR F. A. FISCHER
M. W. F. 9, *Mill Lane Room 3* (Twelve lectures)

Variational Principles*
PROF. N. PEAKE
M. W. F. 10, *Mill Lane Room 3* (Twelve lectures)

Metric and Topological Spaces*
PROF. P. M. H. WILSON
M. W. F. 11, *Mill Lane Room 3* (Twelve lectures)

Computational Projects*
DR S. J. COWLEY
Tu. Th. 10 (Eight lectures)

The following courses are non-examinable

Concepts in Theoretical Physics
DR D. D. BAUMANN
Tu. Th. 11 (Eight lectures)

Topics in the History of Mathematics: Ancients to the Middle Ages
DR P. BURSILL-HALL
W. F. 4, *Centre for Mathematical Sciences, MR3*

Topics in the History of 19th Century Mathematics
DR P. BURSILL-HALL ET AL.
W. F. 4, *Centre for Mathematical Sciences, MR3*

* Examined in Part IB of the Tripos

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 at *http://timetables.caret.cam.ac.uk/live/web/view.html#course=T0024001692011006* in Part IA Physics of the Natural Sciences Tripos. They will be required to do Physics practical work, and should attend at least the first lecture of Course B of the Computing Course for Physical Scientists.