

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.

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

PART IA

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

Part IA students are recommended to attend the induction session which will be held from 9.30 a.m. to 10.30 a.m. on Wednesday 8 October 2014, in the *Cockcroft Lecture Theatre*.

A meeting will be held for all Part IA students on Friday 1 May 2015 at 2.00 p.m. in *Mill Lane Room 3* to discuss examinations and examination techniques.

MICHAELMAS 2014

Numbers and Sets

PROF. A. G. THOMASON
M. W. F. 10

Vectors and Matrices

PROF. N. PEAKE
M. W. F. 11

Differential Equations

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

Groups

DR J. GOEDECKE
Tu. Th. S. 11

LENT 2015

Vector Calculus

PROF. B. ALLANACH
M. W. F. 10

Probability

PROF. R. R. WEBER
M. W. F. 11

Analysis I

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

Dynamics and Relativity

PROF. G. I. OGILVIE
Tu. Th. S. 11

EASTER 2015

Optimisation*

DR F. A. FISCHER
M. W. F. 10, *Mill Lane Room 3* (Twelve lectures)

Metric and Topological Spaces*

DR J. RASMUSSEN
M. W. F. 11, *Mill Lane Room 3* (First lecture Th. 23 April, no lecture F. 24 April, twelve lectures)

Variational Principles*

PROF. P. K. TOWNSEND
M. W. F. 12, *Mill Lane Room 3* (First lecture Th. 23 April, no lecture F. 24 April, twelve lectures)

Computational Projects*

DR M. B. WINGATE
Tu. Th. 10 (Eight lectures)

Information for non-examinable courses and the Mathematics with Physics option appears below on the next page.

The following courses are non-examinable

Introduction to Mechanics

DR P. O'DONNELL

Tu. Th. 12, *Arts School, Room B, Bene't Street*

(Twelve lectures)

History of Mathematical Ideas: Ancient Mathematics

DR P. BURSILL-HALL

W. F. 4, *Centre for Mathematical Sciences, MR3*

History of Science for Mathmos: The origins and early development of Islam and Islamic science

DR P. BURSILL-HALL

Th. 4, *Centre for Mathematical Sciences, MR3*

The following courses are non-examinable

History of Mathematical Ideas: the Middle Ages to the Enlightenment

DR P. BURSILL-HALL

W. F. 4, *Centre for Mathematical Sciences, MR3*

History of Science for Mathmos: early Islamic science and science in the western Middle Ages

DR P. BURSILL-HALL

Th. 4, *Centre for Mathematical Sciences, MR3*

The following course is non-examinable

Concepts in Theoretical Physics

DR D. D. BAUMANN

Tu. Th. 11, (Lectures start Tu. 28 April, eight lectures)

* 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://www.timetable.cam.ac.uk/#tripos/nst/IA/phy>

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 the Scientific Computing Course.