

Lectures Proposed by the Board of the Faculty of Computer Science and Technology

For particulars of the University Composition Fee and of 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 lecture proposed by the Faculty Board.

COMPUTER SCIENCE TRIPOS

MICHAELMAS 2008

LENT 2009

EASTER 2009

PART IA

Year 1 Coordinator: Dr F. H. King (email fhk1@cam.ac.uk)

Lectures will be delivered in the *Arts School Room A, Bene't Street*, unless otherwise stated

Candidates taking Part IA of the Computer Science Tripos under Regulation 10(a) are also required to offer Papers 1 and 2 set for Part IA of the Mathematical Tripos.

Candidates taking Part IA of the Computer Science Tripos under Regulation 10(b) are also required to offer the papers set for the subject Mathematics in Part IA of the Natural Sciences Tripos and *either* Paper 3 set for Part I the Social and Political Sciences Tripos *or* the papers, and practical examination if any, set for one of the following subjects in Part IA of the Natural Sciences Tripos¹: Chemistry, Evolution and Behaviour², Geology, Physics, and Physiology of Organisms.

DR F. H. KING AND MISS C. H. NORTHEAST
Registration. Th. 11 (One lecture) *or* Th. 12 (One lecture, for those unable to attend at 11)

PROF. A. HOPPER
Introduction to Computer Science. F. 10 (One lecture)

PROF. L. C. PAULSON
Foundations of Computer Science. M. W. F. 10 (Fifteen lectures, beginning 13 Oct.)

DR P. M. SEWELL
Discrete Mathematics I. M. W. F. 10 (Eight lectures, beginning 17 Nov.)

DR I. J. WASELL
Digital Electronics. M. W. F. 12 (Eleven lectures, *Hopkinson Lecture Room*)

DR S. M. HAND
Operating Systems I. M. W. F. 12 (Thirteen lectures, beginning 5 Nov.) *Hopkinson Lecture Room*

Practical work and afternoon classes

MR R. J. STIBBS, DR F. H. KING AND MISS C. H. NORTHEAST
Practical ML under Windows. Th. 2–5 (Two classes) *Lecture Theatre 1, William Gates Building*

PROF. L. C. PAULSON AND DR F. H. KING
Programming Practical Class. Th. 2–4 (Three fortnightly classes, beginning 23 Oct. *or* 30 Oct.) *Cockcroft Building, Floor 4*

Assessed Exercise Work. M. W. F. 11, M. *or* W. *or* F. 2–4 *Cockcroft Building, Floor 4*

DR I. J. WASELL AND OTHERS
Hardware Practical Class³. Th. 10–1 *or* 2–5 (Three fortnightly classes, beginning 23 Oct. *or* 30 Oct.) *Cockcroft Building, Floor 4*

PROF. A. MYCROFT
How to Study Computer Science. Th. 5 (One lecture, 23 Oct.)

DR F. H. KING
Tick-Four Briefing. Th. 5 (One lecture, 30 Oct.) *Hopkinson Lecture Room*

DR T. TUERK
Help Sessions. Th. 5 (Three classes, beginning 6 Nov.) *Hopkinson Lecture Room*

DR R. J. DOWLING
How to Install Linux. Th. 5 (One lecture, 27 Nov.) *Hopkinson Lecture Room*

DR A. F. BLACKWELL
Software Design. M. W. F. 10 (Twelve lectures)

PROF. A. MYCROFT
Floating-Point Computation. M. W. F. 10 (Six lectures, beginning 13 Feb.)

DR R. K. HARLE
Programming Methods. M. W. F. 10 (Six lectures, beginning 27 Feb.)

DR R. C. JENNINGS
Professional Practice and Ethics. F. 12 *Hopkinson Lecture Room*

DR S. M. HAND
Operating Systems I continued. M. W. 12 (Four lectures) *Hopkinson Lecture Room*

PROF. G. WINSKEL
Discrete Mathematics II. M. W. 12 (Twelve lectures, beginning 2 Feb.) *Hopkinson Lecture Room*

DR A. R. BERESFORD AND DR A. C. RICE
Programming in Java. Th. 10–12 *or* 12–2 *or* 2–4 *or* 4–6. *Cockcroft Building, Floor 4*

Assessed Exercise Work. M. W. F. 11, M. *or* W. *or* F. 2–4 *Cockcroft Building, Floor 4*

DR I. J. WASELL AND OTHERS
Hardware Practical Class. Th. 10–1 *or* 2–5 (Four fortnightly classes, beginning 15 Jan. *or* 22 Jan.) *Cockcroft Building, Floor 4*

DR F. M. STAJANO
Algorithms I. M. W. F. 10

DR F. H. KING
Examination Briefing. W. 11 (One lecture, 20 May) *Hopkinson Lecture Room*

DR R. J. GIBBENS
Probability. M. W. F. 12 (Six lectures) *Hopkinson Lecture Room*

PROF. A. M. PITTS
Regular Languages and Finite Automata. M. W. F. 12 (Six lectures, beginning 8 May) *Hopkinson Lecture Room*

DR F. M. STAJANO AND DR F. H. KING
Practical Class. Th. 1–4. *Cockcroft Building, Floor 4*

Assessed Exercise Work. M. W. F. 11, M. *or* W. *or* F. 2–4 *Cockcroft Building, Floor 4*

STAFF
Part IB Assessed Exercise Briefing. Th. 4.30 (One lecture, 14 May) *Hopkinson Lecture Room*

¹ It is particularly important that students register for the practical classes for their appropriate Natural Sciences bench subject.

² It is not possible for those reading Evolution and Behaviour to attend the Michaelmas Term Computing Techniques and Applications course which is associated with subject Mathematics in the Natural Sciences Tripos. Alternative arrangements will be explained in the first lecture on Practical ML under Windows at 2 p.m. on 9 October.

³ Those reading Physics normally attend the Thursday morning Hardware Practical Classes. Those reading other bench subjects should attend the Thursday afternoon Hardware Practical Classes.

The above timetable also means that it is essential *not* to arrange Supervisions, Natural Sciences Tripos practical classes, or any other activities, on Thursday afternoons.

Faculty of Computer Science and Technology (continued)

COMPUTER SCIENCE TRIPOS PART 1B

MICHAELMAS 2008

LENT 2009

EASTER 2009

Year 2 Coordinator: Dr A. F. Blackwell (email afb21@cam.ac.uk)

Lectures will be delivered in *Lecture Theatre 1, William Gates Building*, unless otherwise stated

DR M. G. KUHN
Unix Tools. Tu. Th. 10 (Ten lectures)

DR S. W. MOORE
ECAD. M. W. F. 10 (Four lectures)

DR S. W. MOORE
Computer Design. M. W. F. 10 (Sixteen lectures, beginning 20 Oct.)

DR D. M. EYERS
Prolog. Tu. Th. 10 (Six lectures, beginning 13 Nov.)

PROF. L. C. PAULSON
Logic and Proof. Tu. Th. 11 (Twelve lectures)

DR R. J. GIBBENS
Mathematical Methods for Computer Science. M. W. F. 11 (Twelve lectures)

PROF. A. M. PITTS
Computation Theory. M. W. F. 11 (Twelve lectures, beginning 7 Nov.)

DR A. F. BLACKWELL
Group Project Briefing. Th. 11 (One lecture, 20 Nov.)

PROF. R. J. ANDERSON
Software Engineering. Tu. Th. 12 (Six lectures.)

DR S. M. HAND AND OTHERS
Concurrent Systems and Applications. M. W. F. 12 (Fifteen lectures) M. W. F. 12 (Six lectures, beginning 19 Nov.)

DR F. M. STAJANO
Algorithms II. M. W. F. 12 (Ten lectures, beginning 30 Oct.)

Practical work and afternoon classes

DR S. W. MOORE AND DR R. D. MULLINS
ECAD (on-line learning component). Tu. or F. 2-5 (One class, 10 Oct. or 14 Oct.) *Intel Laboratory*

ECAD and Architecture Laboratory. Tu. or F. 2-5 (Seven classes, beginning 17 Oct. or 21 Oct.) *Intel Laboratory*

PROF. A. MYCROFT
Compiler Construction. Tu. Th. 10

DR M. J. PARKINSON
Foundations of Functional Programming. M. W. F. 10 (Twelve lectures)

PROF. A. MYCROFT
Floating-Point Computation. M. W. F. 10 (Six lectures, beginning 13 Feb.)

DR A. W. MOORE
Programming in C and C++. Tu. Th. 11 (Eight lectures) *Arts School, Room A, Bene't Street*

DR P. M. SEWELL
Semantics of Programming Languages. M. W. F. 11 (Twelve lectures)

DR M. P. FIORE
Concepts in Programming Languages. Tu. Th. 11 (Eight lectures, beginning 12 Feb.)

PROF. P. ROBINSON
Computer Graphics and Image Processing. Tu. Th. 12

DR A. W. MOORE
Digital Communication I. M. W. F. 12 (Twelve lectures)

DR T. G. GRIFFIN
Databases. M. W. F. 12 (Twelve lectures, beginning 13 Feb.)

DR A. F. BLACKWELL
Group Project Inaugural Meeting. Th. 2 (One class)

DR A. F. BLACKWELL AND OTHERS
Group Project Syndicate Meetings. W. or Th. or F. 2 or 3 or 4 or 5 (Three fortnightly meetings of one hour, beginning 28 Jan. or 29 Jan. or 30 Jan.) *William Gates Building, various rooms*

DR A. F. BLACKWELL
How (not) to give a Presentation. Tu. 2 (One lecture, 3 Feb.)

DR A. F. BLACKWELL AND OTHERS
Group Project Demonstrations. W. 2-4 (One session, 4 Mar.) *Intel Laboratory*

Group Project Presentations. W. 4.15 (One session, 4 Mar.)

PROF. M. J. C. GORDON
Project Briefing I. Tu. 10 (One lecture, 19 May)

PROF. R. J. ANDERSON AND MR N. D. F. BOHM
Economics and Law. Tu. Th. 11

DR T. G. GRIFFIN
Complexity Theory. M. W. F. 11

DR M. G. KUHN
Introduction to Security. Tu. Th. 12

DR M. JAMNIK
Artificial Intelligence I. M. W. F. 11

Faculty of Computer Science and Technology (continued)

COMPUTER SCIENCE TRIPOS PART II

MICHAELMAS 2008

LENT 2009

EASTER 2009

Year 3 Coordinator: Professor M. J. C. Gordon (email mjcg@cl.cam.ac.uk)

Lectures will be delivered in *Lecture Theatre 2, William Gates Building*, unless otherwise stated

PROF. M. J. C. GORDON

Project Briefing II. Th. 9 (One lecture)

DR M. P. FIORE

Denotational Semantics. Tu. Th. 9 (Ten lectures, beginning 14 Oct.)

PROF. A. M. PITTS

Types. Tu. Th. 10 (Eight lectures)

DR J. G. DAUGMAN

Information Theory and Coding. M. W. F. 10 (Twelve lectures)

MR J. A. LANG

Business Studies. Tu. Th. 10 (Eight lectures, beginning 6 Nov.)

DR R. J. GIBBENS

Computer Systems Modelling. M. W. F. 10 (Twelve lectures, beginning 7 Nov.)

PROF. A. MYCROFT

Optimising Compilers. Tu. Th. 11

PROF. J. A. CROWCROFT AND OTHERS

Digital Communication II. M. W. F. 11

DR A. F. BLACKWELL

Human-Computer Interaction. Tu. Th. 12 (Eight lectures)

DR A. DAWAR

Quantum Computing. M. W. F. 12 (Eight lectures)

PROF. R. J. ANDERSON

Security. M. W. F. 12 (Sixteen lectures, beginning 29 Oct.)

DR S. H. TEUFEL

Information Retrieval. Tu. Th. 12 (Eight lectures, beginning 6 Nov.)

DR P. A. BENTON

Advanced Graphics. F. 9 (Four lectures)

PROF. M. J. C. GORDON

How to Write a Dissertation. Th. 9 (One lecture, 12 Feb.)

DR R. D. MULLINS

Comparative Architectures. Tu. Th. 10

DR M. G. KUHN

Digital Signal Processing. M. W. F. 10 (Twelve lectures)

DR P. A. BENTON

Advanced Graphics continued. F. 10 (Four lectures, beginning 13 Feb.)

DR A. L. KORHONEN AND OTHERS

Natural Language Processing. M. W. 10 (Eight lectures, beginning 16 Feb.)

DR S. M. HAND AND OTHERS

Advanced Systems Topics. Tu. Th. 11

DR P. LIÒ

Bioinformatics. M. W. F. 11 (Twelve lectures)

DR D. J. GREAVES

System-on-Chip Design. M. W. F. 11 (Twelve lectures, beginning 13 Feb.)

DR J. G. DAUGMAN

Computer Vision. Tu. Th. 12

PROF. M. J. C. GORDON

Specification and Verification I. M. W. F. 12 (Twelve lectures)

PROF. M. J. C. GORDON

Specification and Verification II. M. W. F. 12 (Twelve lectures, beginning 13 Feb.)

Afternoon classes

STAFF

Progress Reports. Th. or F. or M. or Tu. 2 (One session, 5 Feb. or 6 Feb. or 9 Feb. or 10 Feb.) *William Gates Building, various rooms*

MR J. A. LANG AND OTHERS

Business Studies Seminars. Tu. Th. 10 (Six lectures)

PROF. A. HOPPER AND OTHERS

Additional Topics. M. W. F. 10

DR D. EVANS

Distributed Systems. Tu. Th. 11

DR S. B. HOLDEN

Artificial Intelligence II. M. W. F. 11

MR J. A. LANG AND OTHERS

E-Commerce. Tu. Th. 12

PROF. G. WINSKEL

Topics in Concurrency. M. W. F. 12

Faculty of Computer Science and Technology (continued)

M.PHIL. IN COMPUTER SPEECH, TEXT AND INTERNET TECHNOLOGY

Contact: Ms L. M. Gough (email: lmg30@cl.cam.ac.uk)

All lectures take place in SW01 and practical classes in SW03, William Gates Building.

MICHAELMAS 2008

LENT 2009

EASTER 2009

MICHAELMAS 2008	LENT 2009	EASTER 2009
Course Director: PROF. E. J. BRISCOE DR M. J. F. GALES Module 1A (weeks 1-4) Th. 11 (weeks 2-4) F. 11 DR W. J. BYRNE Module 1A (week 1) F. 11 (weeks 1-6) Th. F. 10 MR C. HADLEY Computing in the Computer Lab (week 1) Th. 12 PROF. P. C. WOODLAND Module 1A (weeks 5-8) Th. F. 11 DR P. A. TAYLOR Module 1A (weeks 7, 8) Th. F. 10 PROF. P. C. WOODLAND, DR M. J. F. GALES AND MR J. P. M. GOSLING Practicals. (weeks 1-8) Th. F. 2-5 DR I. LEWIN Module 1B (weeks 1-8) M. Tu. 10 (weeks 3, 4) M. 11 (week 1) Tu. 11 DR A. N. OTHER Module 1B (weeks 5-8) M. 11 (weeks 6-8) Tu. 11 DR S. H. TEUFEL Module 1B (weeks 1, 2) M. 11 (weeks 2-5) Tu. 11 DR A. N. OTHER Practicals. (weeks 1-8) M. Tu. 2-5 VARIOUS (weeks 5-8) Tutorials W. 10-1 (weeks 1-8) NLIP Seminars F. 12 (weeks 1-8) CUED Seminars Tu. 12	PROF. S. J. YOUNG Module 2A (weeks 1-4) F. 10 PROF. P. C. WOODLAND AND DR M. J. F. GALES Module 2A (weeks 1-4) Th. F. 11 DR W. J. BYRNE Module 2S Speech Reading Club. (weeks 5-8) Th. 10-12 DR W. J. BYRNE Module 2A (weeks 1-4) Th. 10 DR M. J. F. GALES AND PROF. P. C. WOODLAND Module 2A Practical (weeks 1-8) Th. F. 2-5 DR A. N. OTHER Module 2B (weeks 1-4) M. 10 (weeks 1, 2) Tu. 10 DR S. H. TEUFEL Module 2B (weeks 1-3) M. 11 (weeks 1-4) Tu. 11 DR I. LEWIN Module 2B (week 4) M. 11 (weeks 3, 4) Tu. 10 DR S. H. TEUFEL AND OTHERS Module 2L Language Reading Club (weeks 5-8) M. 11-1 DR S. H. TEUFEL AND OTHERS Practicals (weeks 1-8) M. Tu. 2-5 VARIOUS Project Work-plan Preparation (weeks 5, 6) Tu. F. 10-1 Project Preparation (weeks 7, 8) Tu. F. 10-1 VARIOUS (weeks 1-8) Tutorials W. 10-1 (weeks 1-8) NLIP Seminars F. 12 (weeks 1-8) CUED Seminars Tu. 12	Projects

Please see <http://www.cstt.cl.cam.ac.uk/b/current/homepages/student.html> for further details and timetable amendments.