

Lectures Proposed by the Boards of the Faculties of Earth Sciences and Geography, Physics and Chemistry, Biology, and Mathematics, and the Board of History and Philosophy of Science

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

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA

Introduction to the Course

W. 2 (4 Oct.) Dr D. Bainbridge, Dr D. Chivers, Mr M. Herrtage (Veterinary Students) *Biffen Lecture Theatre*
W. 12 (4 Oct.) Dr D. Wood and Dr D. MacDonald (Medical Students) *Anatomy Lecture Theatre*
Th. 2 (5 Oct.) Dr D. MacDonald (All students) *Babbage Lecture Theatre*

MICHAELMAS 2006

LENT 2007

EASTER 2007

CELL BIOLOGY

Course Organiser: Dr B. Dunmore (email: bjd28@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

This is an introductory course in Cell Biology for students who do not have A-level Biology.

DR B. DUNMORE
(Six lectures, 12 noon and 4 on 5, 6 and 10 Oct.) *Babbage Lecture Theatre*

FUNCTIONAL ARCHITECTURE OF THE BODY

(Medical Students)

Course Organiser: Dr J. Wilton (email: jcw54@cam.ac.uk)

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

At the *Anatomy School* unless otherwise stated

Lectures. W. F. 9

Anatomy Lecture Theatre

DR J. WILTON
Course Aims/General Principles, Learning Objectives
(One lecture, 6 Oct.)

DR J. WILTON
Overview of Bones, Joints and Muscles (One lecture,
11 Oct.)

DR M. N. S. HUNT
Ethics, Attitudes and Communication. (One lecture,
13 Oct.)

DR J. WILTON
Principles of the Cardiovascular System. (One lecture,
18 Oct.)

DR J. WILTON
Principles of Lymphatic Drainage and Breast. (One
lecture, 20 Oct.)

DR J. WILTON
Principles of the Nervous System. (One lecture, 25 Oct.)

DR R. H. WHITAKER
Autonomic Nervous System. (One lecture, 27 Oct.)

DR J. WILTON
Principles of Fascia. (One lecture, 1 Nov.)

PROF. D. RICHES
Posture and Locomotion. (One lecture, 8 Nov.)

DR J. WILTON AND DR R. H. WHITAKER
Formative Mid Term Anatomy MCQ. (10 Nov.)

DR P. SCHOFIELD
Development of the Body Plan. (One lectures, 15 Nov.)

DR P. SCHOFIELD
Embryologic folding, Somatogenesis and Segmentation
(One lecture, 17 Nov.)

DR J. WILTON
Nerve Injuries. (One lecture, 22 Nov.)

PROF. A. DIXON
Principles of Radiology (One lecture, 24 Nov.)

Special Periods

Clinical Demonstration. (1 Dec. 10–12) *William Harvey Lecture Theatre, Addenbrooke's*

Practical Work

Dissection and Prosections*. Times according to Options
Allocation of Cadavers and Introduction to
Anatomy: 4 Oct. at 9.
Dissection and Prosection: M. 10–12 and F. 2–4 or Tu.
10–12 and Th. 10–12.
Anatomy of Procedures: W. 10–12 or 2–4 (fortnightly).

Lectures. W. F. 9

Anatomy Lecture Theatre

DR R. H. WHITAKER
Principles of Cranial Nerves. (Three lectures,
19, 24, 26 Jan.)

DR C. BAKER
Craniofacial Development. (One lecture,
31 Jan.)

DR R. H. WHITAKER
The Ear. (One lecture, 2 Feb.)
The Larynx. (One lecture, 7 Feb.)

DR S. BRAY
Development of Body Cavities Diaphragm,
lungs etc (One lecture, 14 Feb.)
Development of Cardiovascular system (One
lecture, 21 Feb.)

DR J. WILTON AND DR R. H. WHITAKER
Medical Imaging (One lecture, 23 Feb.)

DR R. H. WHITAKER
Peritoneal development and abdominal cavity
nerve supply (One lecture, 28 Feb.)

DR S. BRAY
Development of the Gut Tube and Derivatives
(One lecture, 2 Mar.)

DR P. SCHOFIELD
Development of Urogenital system:
Hormonal and Genetic co-ordination of
Development (One lecture, 7 Mar.)

DR J. WILTON AND DR R. H. WHITAKER
Formative End Term Anatomy MCQ. (One
lecture, 9 Mar.)

DR J. WILTON AND DR R. H. WHITAKER
Exam Technique and Course Feedback (One
lecture, 14 Mar.)

Clinical Demonstration. (16 Mar. 2–4) *William Harvey Lecture Theatre, Addenbrooke's*

Dissections and Prosections.*

Anatomy Procedures: The same continued.

Lectures. W. F. 9

Anatomy Lecture Theatre

DR R. H. WHITAKER
Rectum and Anal Canal. (One lecture,
27 Apr.)

DR R. H. WHITAKER
Urinary Continence and Incontinence. (One
lecture, 2 May)

DR R. H. WHITAKER
Abdominal Wall, Hernias and Inguinal
Canal. (One lecture, 4 May)

DR P. SCHOFIELD
Development of Urogenital system: Sex
Determination and the Genital system.
(One lecture, 9 May)

DR J. WILTON AND DR R. H. WHITAKER
Formative End Term Anatomy MCQ. (One
lecture, 11 May)

Dissections and Prosections

Anatomy Procedures: The same continued.

* The Dissection Room is available to students between 10 and 12; and 2 and 4, and students should attend in accordance with their options.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2006

LENT 2007

EASTER 2007

HISTOLOGY

Course Organiser: Dr T. Tiffert (email: jtt1000@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst/html>

Students will be notified of the time at which they should attend each of the classes.

Practical Work *Histology classroom, Physiological Laboratory*

1. Introduction to Microscopy and Cell Structure. F. 2–4 (6 Oct.); or M. 10–12 or 2–4 (9 Oct.); or W. 2–4 (11 Oct.); or F. 2–4 (13 Oct.); or W. 2–4 (18 Oct.)
2. Connective Tissue, Nerve and Neuromuscular Junction. F. 2–4 (20 Oct.); or M. 10–12 or 2–4 (23 Oct.); or W. 2–4 (25 Oct.); or F. 2–4 (27 Oct.); or W. 2–4 (1 Nov.)
3. Striated, Cardiac and Smooth Muscle. F. 2–4 (3 Nov.); or M. 10–12 or 2–4 (6 Nov.); or W. 2–4 (8 Nov.); or F. 2–4 (10 Nov.); or W. 2–4 (15 Nov.)
4. Vascular System and Blood. F. 2–4 (17 Nov.); or M. 10–12 or 2–4 (20 Nov.); or W. 2–4 (22 Nov.); or F. 2–4 (24 Nov.); or W. 2–4 (29 Nov.)

Practical Work *Histology classroom, Physiological Laboratory*

5. Epithelia and Skin. F. 2–4 (19 Jan.); or M. 10–12 or 2–4 (22 Jan.); or W. 2–4 (24 Jan.); or F. 2–4 (26 Jan.); or W. 2–4 (31 Jan)
6. Respiratory System. F. 2–4 (2 Feb.); or M. 10–12 or 2–4 (5 Feb.); or W. 2–4 (7 Feb.); or F. 2–4 (9 Feb.); or W. 2–4 (14 Feb.)
7. Urinary System and Adrenal Gland. F. 2–4 (16 Feb.); or M. 10–12 or 2–4 (19 Feb.); or W. 2–4 (21 Feb.); or F. 2–4 (23 Feb.); or W. 2–4 (28 Feb.)
8. Alimentary System. F. 2–4 (2 Mar.); or M. 10–12 or 2–4 (5 Mar.); or W. 2–4 (7 Mar.); or F. 2–4 (9 Mar.); or W. 2–4 (14 Mar.)

Practical Work *Histology classroom, Physiological Laboratory*

9. Liver, Pancreas and Salivary Glands. F. 2–4 (27 Apr.); or M. 10–12 or 2–4 (30 Apr.); or W. 2–4 (2 May); or F. 2–4 (4 May); or W. 2–4 (9 May)
10. Thyroid, Parathyroid, Pituitary Gland and Revision. Exercises. F. 2–4 (11 May); or M. 10–12 or 2–4 (14 May); or W. 2–4 (16 May); or F. 2–4 (18 May); or W. 2–4 (23 May)

HOMEOSTASIS

Course Organiser: Dr C. Schwiening (email: cjs30@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

All lectures take place in the *Babbage Lecture Theatre*, on Tu. Th. F. 12, unless otherwise stated.

DR R. H. S. CARPENTER

Introduction; Cellular Electrophysiology and Nerve. (Seven lectures, 13 Oct.–27 Oct.)

PROF. C. L-H. HUANG

Muscle. (Five lectures, 31 Oct.–9 Nov.)

DR R. J. BARNES

Heart and Circulation. (Nine lectures, 10 Nov.–30 Nov.)

Practical Work

Experimental Physiology. M. 10–12 or 2–4 or W. 10–12 or F. 10–12

DR MICHAEL J. MASON

Respiration. (Nine lectures, 18 Jan.–6 Feb.)

DR S. O. SAGE

Fluids and Electrolytes. (Ten lectures, 8 Feb.–1 Mar.)

DR MATTHEW J. MASON

Digestion, Absorption and Storage. (Six lectures 2 Mar.–15 Mar.)

Practical Work

The same continued.

PROF. R. C. THOMAS

Energy Balance and Growth. (Four lectures, 26 Apr.–3 May)

DR M. P. MAHAUT-SMITH

Temperature Control. (Two lectures, 4, 8 May)

Practical Work

The same continued.

MOLECULES IN MEDICAL SCIENCE

Course Organiser: Dr P. H. Rubery (email: phr2@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

All lectures take place in the *Babbage Lecture Theatre, New Museums Site*, on M. 12, Tu. Th. 9.

Introduction

DR P. H. RUBERY

Introduction to the Course. (One lecture, 9 Oct.)

Metabolism in health and disease

PROF. K. SIDDLE

Prologue. Diabetes Mellitus as a Metabolic Disease. Two lectures, 10–12 Oct.)

DR M. K. HIGGINS

Protein Structure and Enzyme Catalysis. (Five lectures, 16–24 Oct.)

DR P. H. RUBERY

Bioenergetics and Metabolism. (Eight lectures, 26 Oct.–13 Nov.)

DR D. PEREIRA

Nutrition. (Two lectures, 14–16 Nov.)

PROF. R. F. IRVINE

Membrane Dynamics and Function; Signalling by Hormones. (Five lectures, 20–28 Nov.)

PROF. K. SIDDLE

Epilogue. (One lecture, 30 Nov.)

Experimental work and discussion; problem-based learning exercise

Department of Biochemistry, Downing Site
Detailed scheme in course handbook

Macromolecules in health and disease

DR T. R. HESKETH

Prologue. Cancer as a Molecular Disease. (Two lectures, 18–22 Jan.)

DR S. BELL

Organisation, Replication and Repair of Genomes. (Five lectures, 23 Jan.–1 Feb.)

DR N. M. STANDART

Transcription, Translation and Control. (Five lectures, 5–13 Feb.)

PROF. A. H. WYLLIE

Control of Proliferation and Death in Cancer Cells. (Three lectures, 15–20 Feb.)

DR M. K. HIGGINS

Proteins and Molecular Recognition. (Two lectures, 22–26 Feb.)

DR D. W. MACDONALD AND OTHERS

Genetics in Human and Animal Medicine. (Five lectures, 27 Feb.–6 Mar. and W. 12 (7 Mar.))

PROF. A. H. WYLLIE

Mesologue: Cancer Therapy (One lecture, 12 Mar.)

Experimental work and discussion; problem-based learning exercise

Department of Biochemistry, Downing Site
The same continued.

Macromolecules in Health and Disease (continued)

DR D. W. MACDONALD AND OTHERS

Genetics in Human and Animal Medicine (continued). (Three lectures, 26 Apr.–1 May)

Experimental work and discussion; bioinformatics exercise

Department of Biochemistry, Downing Site
The same continued.

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2006

LENT 2007

EASTER 2007

VETERINARY ANATOMY AND PHYSIOLOGY

(Veterinary Students)

Course Organiser: Dr D. R. J. Bainbridge (email: db125@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures take place in the *Biffen Lecture Theatre, Department of Genetics*, on M. W. F. 9 unless otherwise stated

DR D. R. J. BAINBRIDGE, S. J. BRAY AND DR D. J. CHIVERS
Introduction. (Three lectures, 6, 9, 11 Oct.)
DR J. M. HOLMES, DR D. R. J. BAINBRIDGE, S. J. BRAY AND DR
D. J. CHIVERS
The Locomotor System. (Thirteen lectures, 13 Oct–22
Nov.)
DR J. M. HOLMES
The Nervous System. (Two lectures, 27, 29 Nov.)

Practical Work

Dissection of the domestic animals, examination of live
animals, fresh viscera, radiographs, laboratory work
and other activities. (Tu. and Th. 10–12 and F. 10–12
or 2–4 and occasionally Tu. or Th. 2–4.

DR J. M. HOLMES
The Nervous System (continued). (Two lectures,
19, 22 Jan.)
DR D. R. J. BAINBRIDGE, S. J. BRAY AND DR J. M.
HOLMES
The Cardiovascular System. (Five lectures,
2 pm Tu. 23, 9 am W. 24, 29 Jan., 31 Jan,
5, Feb.)
DR J. H. BRACKENBURY AND DR D. R. J.
BAINBRIDGE
The Respiratory System. (Two lectures, 7, 12
Feb.)
DR D. J. CHIVERS, DR D. R. J. BAINBRIDGE AND DR J.
GIBSON
The Digestive System. (Nine lectures, 14, 19, 21,
26, 28 Feb., 5, 7, 12, 14 Mar.)

Practical Work

The same continued.

DR C. ROBERTS AND MRS J. PEARSON
The Digestive System (continued). (Two
lectures, 27 Apr., 30 Apr.)
DR D. R. J. BAINBRIDGE, DR S. J. BRAY
Urinary System. (Three lectures, 2, 7, 9 May)
DR J. M. HOLMES
Integumentary System. (One lecture) 11 May
DR D. R. J. BAINBRIDGE
Review (One lecture) 14 May

Practical Work

The same continued.

INTRODUCTION TO THE SCIENTIFIC BASIS OF MEDICINE

(All students: SECOND M.B. & SECOND VET M.B. EXAMINATION)

Course Organiser: Prof. K. T. Khaw (email: kk101@medschl.cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures will be held in the *Babbage Lecture Theatre*, on W. 12

DR K. T. KHAW
Epidemiology, Risk, Methods, Screening, Inference and
Causation. (Four lectures, 18 Oct. 8 Nov.)
DR M. HOLMES
Epidemiology (One lecture, 15 Nov.)
DR C. PALMER
Biostatistics; Estimating Population Measures. (Two
lectures 22, 29 Nov.)

DR C. PALMER
Biostatistics (continued); Testing Hypotheses,
Comparing Groups, Interpreting Research.
(Three lectures, 24, 31 Jan., 7 Feb.)

MEDICAL SOCIOLOGY

(Medical students: SECOND M.B. EXAMINATION)

Course Co-ordinator: Mr J. Adams (email: jsa30@cam.ac.uk)

Further information may be obtained from the Faculty Web site at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>All lectures will be held in the *Anatomy Lecture Theatre*, on M. 9

MR J. ADAMS, PROF. M. RICHARDS
Medical Sociology. (Six lectures 9, 23, 30 Oct;
6, 20, 27 Nov.)

MEDICAL AND VETERINARY SCIENCES TRIPOS, PART IA (continued)

MICHAELMAS 2006

LENT 2007

EASTER 2007

PREPARING FOR PATIENTS A (First Year Strand)

(Medical Students: SECOND M.B. EXAMINATION)

Course Organiser: Dr J. Silverman (email: js355@medschl.cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

There are four strands to this course, which run over the three pre-clinical years of study

DR J. LOMAS AND DR J. SILVERMAN

Briefings. (17 or 24, 31 Oct., or 7 Nov.) 2–4 p.m. *Anatomy Lecture Theatre*

General Practitioner visits. (24 Oct. or 2 or 7 or 14 or 16 or 21 or 23 or 28 Nov.) 2–5

General Practitioner visits. (18 or 25 or 30 Jan., or 6 or 13 or 15 or 20 or 22 Feb.) 2–5

DR J. LOMAS AND DR J. SILVERMAN

Review Sessions. (30 Jan., or 12 or 13 or 19 or 20 or 26 or 27 Feb., or 5 Mar.) 2–4 *Mill Lane Lecture Room 6*

Students will be notified which sessions to attend.

FARM ANIMAL HUSBANDRY

(Veterinary students: SECOND VET M.B. EXAMINATION)

Course Organiser: Dr J. S. Gibson (email: jsg1001@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

Lectures: *Biffen Lecture Theatre, Department of Genetics* F. 9

DR M. HOLMES AND OTHERS
(Six lectures, 20 Oct.–24 Nov.)

Practical Work Tu. 2–4
14 Nov. *Biffen Lecture Theatre*

CAL package

Th. 2–4 19 Oct. or 26 Oct., 2 Nov. or 9 Nov., 16 Nov. or 23 Nov.

Small Animal Handling: *Department of Veterinary Medicine*

Th. 2–4 19 Oct. or 26 Oct., 2 Nov. or 9 Nov., 16 Nov. or 23 Nov.

Students will be advised which sessions to attend.

Lectures: *Biffen Lecture Theatre, Department of Genetics* F. 9, Tu. 2, Th. 9

MS A. SCHWABE AND OTHERS
(Eleven lectures, 26 Jan., 2, 9, 16, 20, 23, 27; Feb., 2, 8, 9, 13 Mar.)

Practical Work Tu. 2–4
6 Feb. *Faculty and Department of Veterinary Medicine*
13 Mar. *Biffen Lecture Theatre*

PREPARING FOR THE VETERINARY PROFESSION (First Year Strand)

(Veterinary students: SECOND VET M.B. EXAMINATION)

Course Organisers: Dr J. S. Gibson (email: jsg1000@cam.ac.uk)

Further information may be obtained from the Faculty Website at <http://www.bio.cam.ac.uk/sbs/facbiol/mvst.html>

All lectures will be held in the *Biffen Lecture Theatre, New Museums Site*, on Tu. 2

DR J. GIBSON, PROF. D. M. BROOM AND OTHERS
17, 24, 31 Oct., 7 Nov.

Practical Work

Th. 1.45–4.15 Two sessions of 19 Oct., 2 Nov., 16 Nov. or 26 Oct., 9 Nov. or 23 Nov.

Practical Work

Th. 1.45–4.15 Two sessions of 25 Jan., or 15 Feb. or 22 Feb.