

# Undergraduate Course Catalogue 2007 – 2008

for courses in the Faculties  
of Arts, Law, Business and  
Social Sciences and Science

Senate Office  
The University of Glasgow  
Glasgow  
G12 8QQ

September 2007

While care has been taken to ensure the accuracy of this Catalogue at the time of going to press courses may be changed subsequently. Up-to-date information may be obtained on enquiry to the department which teaches the course.

The University reserves the right to limit numbers on individual courses having regard to the availability of accommodation and other resources.

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## Introduction

### The Undergraduate Course Catalogue

This Undergraduate Course Catalogue describes the courses which you can choose to make up undergraduate degrees of the University of Glasgow offered by its Faculties of Arts, Law, Business and Social Sciences, and Science. The term *Faculties of Science*, throughout this document, refers to the three Faculties of Biomedical and Life Sciences, Information and Mathematical Sciences and Physical Sciences. The degrees covered by the Catalogue are listed in the next section of this Introduction.

At this University you are admitted to a Faculty, and in Arts and Science you have the freedom to choose from a very large number of courses which can make up your degree programme. The same applies to Social Sciences in the Faculty of Law, Business and Social Sciences. Course prescriptions for degree programmes in the disciplines of Law and Financial Studies are more rigid. Details of course requirements can be found in the University Calendar (<http://senate.gla.ac.uk/calendar/>). The Undergraduate Course Catalogue tells you the aims of each course, and how your progress would be assessed. It also tells you what you need to know about how each course can be built into a degree programme – its level, credit value, and when it is taught. For each course it also tells you which other courses, if any, you must take first and the relevant grades you must achieve before you can enrol for the course – this is called the *Requirement for Entry*.

The Catalogue identifies the department offering each course and, if you want more information, you should write to the head of that department at: The University of Glasgow, Glasgow G12 8QQ. Also, the University's Web site: <http://www.gla.ac.uk/>, contains additional information about most departments together with e-mail contact addresses.

For detailed information on how you may combine courses to make up a particular degree programme you should consult the Degree Regulations published in the University Calendar - which is available online at: <http://senate.gla.ac.uk/calendar/>. Faculty Offices will also hold copies of relevant sections of the Calendar which students may consult. These regulations may seem rather complicated. Faculties of Arts and Law, Business and Social Sciences have also produced booklets which aim to simplify some of the degree regulations found in the Calendar. Contact your Faculty Office to receive a copy. For information on Science degree regulations, contact the Science Faculties Support Unit, Boyd Orr Building. Your Adviser of Studies can also help you to understand the Regulations and to choose courses each year which will lead to your chosen degree, provided you achieve the required grades in these courses. The Faculty Course Lists on page 228 of this Catalogue also provide information on courses available for particular degree programmes in the Faculty of Arts, Faculties of Science and some degrees in the Faculty of Law, Business and Social Sciences.

The Degree Regulations also show which subjects may be studied as Single Honours Degrees and which may be combined in Joint and Combined Honours Degrees. If

you are aiming for an Honours degree you need to prepare for Honours study by including appropriate Level 1 and Level 2 courses in your first and second year choices - these are indicated in the Catalogue under the *Requirement for Entry* for each Honours programme. However, decisions on admission to the Honours degrees covered by this Catalogue are not made until the end of your second year of study. It should be stressed that admission to Honours is not automatic for any student. To guarantee admission you must satisfy the general requirements shown in the Degree Regulations, and in your Level 2 courses (and in some cases in Level 1 courses as well) obtain the grades shown under the Honours course entries in this Catalogue.

Individual Honours option courses in the Faculties of Arts and Law, Business and Social Sciences are not described in this Catalogue. However, information on these may be obtained from the relevant department or from the University's Web site. Some individual option courses may be taken by Visiting Students outwith the degree structures.

As well as leading to degrees, the study of many of the courses shown in this Catalogue can lead to the award of a Certificate of Higher Education or a Diploma of Higher Education for those not wishing or not able to complete a degree; again, see the Degree Regulations in the online Calendar and Faculty booklets for further information.

The University also offers a number of professional degrees, such as the degree in Medicine, where the curriculum is largely fixed and a Catalogue of this type is not necessary. Page vii of the Introduction tells you how to obtain information on degrees not covered by this Catalogue.

In addition, the University offers a large number of post-graduate degrees. These are described in the Graduate Prospectus – see page viii of this Introduction.

### Degrees covered by this Catalogue

This Catalogue covers courses leading to the degrees shown below. These degrees have a flexible curriculum which can be built from a wide number of combinations of courses shown in the Catalogue. The Regulations for each degree are published in the University Calendar, which is available online at: <http://senate.gla.ac.uk/calendar/>. Simplified explanations of Regulations for degrees in the Faculty of Arts and for the MA (Social Sciences) degree are also available. The normal period of study for full-time students is shown in brackets for each degree. Many of the degrees may be studied part-time – see the University Calendar for details.

#### Arts

MA: Master of Arts

*Designated Degree in General Humanities (three years)*

*Honours Degree (four years)*

*Honours degree in a foreign language or languages (five years)*

BMus: Bachelor of Music

*General Degree (three years)*

*Honours Degree (four years)*

BD: Bachelor of Divinity  
*Degree in Theology and Religious Studies (three years)*  
*Honours Degree (four years)*

BD (Ministry): Bachelor of Divinity (Ministry)  
*General Degree (four years)*  
*Honours Degree (four years)*

MA (Theology and Religious Studies): Master of Arts in Theology and Religious Studies  
*General Degree (three years)*  
*Honours Degree (four years)*

### Law, Business and Social Sciences

MA (SocSci): Master of Arts (Social Sciences) *General Degree (three years)* *Honours Degree (four years)*<sup>1</sup>

LLB: Bachelor of Laws  
*Ordinary Degree (three years)*  
*Honours Degree (four years)*

BAcc: Bachelor of Accountancy  
*Ordinary Degree (three years)*  
*Honours Degree (four years)*

BAL: Bachelor of Accountancy and Law  
*Ordinary Degree (three years)*  
*Honours Degree (four years)*

### Science

BSc: Bachelor of Science  
*Designated Degree (three years)*  
*Honours Degree (four years)*

MSci: Master in Science  
*Advanced Honours Degree (five years)*

## Designated Degrees

The **Faculty of Arts** offers Designated Degrees in General Humanities in the following areas:

Ancient Studies  
Creative and Cultural Studies  
European Civilisation  
Historical Studies  
Linguistic Studies  
Literary Studies  
Philosophical Studies  
Scottish Studies

Please see the Faculty Course Lists on page 228 for details of course prescriptions required to satisfy each of the designated degree requirements. As well as the courses offered by the Faculty of Arts, many courses available in the Faculties of Science, and Law, Business and Social Sciences might contribute to a degree in the Faculty of Arts, as may some courses offered through the Faculty of Education, including the Department of Adult and Continuing Education. For further informa-

<sup>1</sup>Plus a year abroad for Honours degree programmes including a foreign language

tion please contact your Adviser of Studies.

In the **Faculties of Science** the successful completion of the first three years of any honours course qualifies a student for a designated degree in that subject. In addition there are specific third year programmes leading to designated degrees in the following subjects. For further information contact the department listed below.

Animal Biology (Institute of Biomedical and Life Sciences)

Archaeological Studies (Department of Archaeology)

Astronomy (Combined Only) (Department of Physics & Astronomy)

Biology and Chemistry (Department of Chemistry and Institute of Biomedical and Life Sciences)

Biomolecular Sciences (Institute of Biomedical and Life Sciences)

Chemistry (Department of Chemistry)

Chemistry and Mathematics (Departments of Chemistry and Mathematics)

Chemistry with Medicinal Chemistry (Department of Chemistry)

Chemistry with Forensic Studies (Department of Chemistry)

Computing Science (Department of Computing Science)

Earth Science (Department of Geographical and Earth Sciences)

Environmental Chemistry (Department of Chemistry)

Geography (Department of Geographical and Earth Sciences)

Geography, Chemistry and the Environment (Department of Geographical and Earth Sciences)

Human Biology (Institute of Biomedical and Life Sciences)

Infection Biology (Institute of Biomedical and Life Sciences)

Mathematical & Statistical Studies (Departments of Mathematics and Statistics)

Mathematics (Department of Mathematics)

Physics (Department of Physics and Astronomy)

Physics with Astrophysics (Department of Physics and Astronomy)

Psychological Studies (Department of Psychology)

Sports Science (Institute of Biomedical and Life Sciences)

## Credit Bearing Courses in the Department of Adult and Continuing Education

The Department of Adult and Continuing Education offers a wide range of credit-bearing courses which can count towards a degree in the Faculties of Science. For further information contact the Principal Adviser of Studies in Science.

A course from the Department of Adult and Continuing Education should not normally form part of a full-time curriculum for a student in the Faculties of Science.

In the **Faculty of Law, Business and Social Sciences** students may complete the MA (Social Sciences) General Degree with Level 3 non-Honours study in most subjects offering an Honours degree in Social Sciences. Full details of the requirements to complete

the degree are listed in the University Calendar.

## Flexible and Part-time Study towards a degree

### Daytime Flexible and Part-time Study

Most courses offered by the Faculty of Arts, Faculties of Science and in the Faculty of Law, Business and Social Sciences are available for study during the day, along with those offered by the Department of Adult and Continuing Education. For those students wishing to study on a flexible and part-time basis during the day, the normal timetable for daytime study applies.

### Evening Part-time Study

The Department of Adult and Continuing Education also offers a wide range of credit-bearing courses for study in the evening, many of which can count as credit towards a degree. These courses are detailed in the section for the Department of Adult and Continuing Education.

For information on the courses available for daytime study please refer to the Flexible Entry Guide. Please contact Dawn Porecki in the Recruitment, Admissions and Participation Service, 12 Southpark Terrace, University of Glasgow G12 8LG, telephone: 0141-330 3177 E-Mail: [d.porecki@admin.gla.ac.uk](mailto:d.porecki@admin.gla.ac.uk)

## How to obtain information on other degrees offered by the University

This Course Catalogue contains information about courses only in the Faculties of Arts, Law, Business and Social Sciences and Science. For information about courses and degree programmes in other Faculties (namely Education, Engineering, Medicine and Veterinary Medicine), and in the University's Associated Institutions, please contact the people/offices below or consult the University's Undergraduate Prospectus.

### Education (for the degree of Bachelor of Education in Primary Education and the MA in Religious and Philosophical Education with Teaching Qualifications)

Miss Vanessa Loison, Faculty of Education, St Andrew's Building, telephone: 0141-330 2463, e-mail: [admissions@educ.gla.ac.uk](mailto:admissions@educ.gla.ac.uk)

#### *Bachelor of Technological Education*

Mrs Joyce Scobie (0141-330 3097, email: [j.scobie@elec.gla.ac.uk](mailto:j.scobie@elec.gla.ac.uk)) or Mr Eddie Mack, Robert Clark Centre for Technological Education, St Andrew's Building, University of Glasgow, G3 6NH, telephone 0141-330 3092, e-mail: [e.mack@educ.gla.ac.uk](mailto:e.mack@educ.gla.ac.uk)

#### *Bachelor of Technology Studies in Technology and Management*

Mrs Joyce Scobie (0141-330 3097, email: [j.scobie@elec.gla.ac.uk](mailto:j.scobie@elec.gla.ac.uk)) or Dr Maggie Pollock, Robert Clark Centre for Technological Education, St Andrew's

Building, University of Glasgow, G3 6NH, telephone 0141-330 3092, e-mail: [m.pollock@mech.gla.ac.uk](mailto:m.pollock@mech.gla.ac.uk)

### Engineering

#### *Aerospace Engineering:*

Ms Audrey Queen, Department of Aerospace Engineering Departmental Secretary, James Watt (South) Building, University of Glasgow, Glasgow, G12 8QQ, telephone: 0141-330 3575, e-mail: [aqueen@aero.gla.ac.uk](mailto:aqueen@aero.gla.ac.uk)

#### *Civil Engineering:*

Ms Barbara Grant, Department of Civil Engineering, University of Glasgow, Glasgow, G12 8QQ, telephone 0141-330 4077, e-mail: [b.grant@civil.gla.ac.uk](mailto:b.grant@civil.gla.ac.uk)

#### *Electronics and Electrical Engineering:*

Dr Scott Roy, Department of Electronics & Electrical Engineering, University of Glasgow, Glasgow, G12 8QQ, telephone 0141-330 5218, e-mail: [s.roy@elec.gla.ac.uk](mailto:s.roy@elec.gla.ac.uk)

#### *Mechanical Engineering:*

Ms Jane Livingston, Department of Mechanical Engineering, University of Glasgow, Glasgow, G12 8QQ, telephone 0141-330 4342, e-mail: [j.livingston@mech.gla.ac.uk](mailto:j.livingston@mech.gla.ac.uk)

#### *Naval Architecture and Marine Engineering:*

Simon Craufurd, Henry Dyer Building, John Anderson Campus, University of Strathclyde, Glasgow, telephone 0141-548 3875, e-mail: [s.craufurd@na-me.ac.uk](mailto:s.craufurd@na-me.ac.uk)

### Medicine

#### *Medicine:*

Miss Coleen Doherty, Wolfson Medical School, University Avenue, telephone 0141-330 6216, e-mail: [admissions@clinmed.gla.ac.uk](mailto:admissions@clinmed.gla.ac.uk)

#### *Dentistry:*

Linda McGinness, Admissions Secretary, Glasgow Dental Hospital & School, 378 Sauchiehall Street, Glasgow G2 3JZ, telephone 0141-211 9708, e-mail: [l.mcginness@dental.gla.ac.uk](mailto:l.mcginness@dental.gla.ac.uk)

#### *Nursing:*

Karen Payne, Undergraduate Secretary, Department of Nursing & Midwifery Studies, 59 Oakfield Avenue, University of Glasgow, Glasgow G12 8QQ, telephone 0141-330 3526, e-mail: [kep2w@clinmed.gla.ac.uk](mailto:kep2w@clinmed.gla.ac.uk)

### Veterinary Medicine

Joyce Wason, Admissions Convenor and Student Affairs Co-ordinator, University of Glasgow Faculty of Veterinary Medicine, Bearsden Road, Glasgow G61 1QH, e-mail: [j.wason@vet.gla.ac.uk](mailto:j.wason@vet.gla.ac.uk)

### Crichton Campus (for degrees in Liberal Arts)

Professor M G Ward, University of Glasgow Crichton Campus, Dumfries, DG1 4ZL, telephone: 01387 702037, e-mail: [mgw@arts.gla.ac.uk](mailto:mgw@arts.gla.ac.uk)

### The Glasgow School of Art (for degrees in Architecture, Design and Fine Art)

Academic Registry, The Glasgow School of Art, 167 Renfrew Street, Glasgow, G3 6RQ, telephone: 0141-353 4512/4514, e-mail: [info@gsa.ac.uk](mailto:info@gsa.ac.uk)

**Scottish Agricultural College (SAC) (for degrees in Adventure Tourism and Outdoor Pursuits, Agricultural Science, Agriculture, Applied Animal Science, Countryside Management, Green**

**Technology, Horticulture, Landscape Management, Leisure (Sport and Recreation), Rural Recreation and Tourism)**

The Recruitment and Admissions Office, SAC, Auchincruive Estate, Ayr, KA6 5HW, telephone: 0800 269453, e-mail: [recruitment@sac.ac.uk](mailto:recruitment@sac.ac.uk)

**The Free Church of Scotland (Bachelor of Theology)**

Free Church College, The Mound, Edinburgh EH1 2LS, telephone: 0131 226 5286, e-mail: [contact@freescotcoll.ac.uk](mailto:contact@freescotcoll.ac.uk)

## Other useful sources of information

**The University's World-Wide Web Site:** provides a wide variety of information about the University and its faculties, departments and courses:

<http://www.gla.ac.uk/>.

**Undergraduate Prospectus:** gives you information about entrance requirements to the University, how to apply, the facilities the University has to offer and more besides. You can obtain a copy from: Recruitment, Admissions and Participation Service, University of Glasgow, Glasgow, G12 8QQ, telephone 0141-330 3282 or browse through it online:

<http://www.gla.ac.uk/undergraduate/prospectus/>.

**Graduate Prospectus:** gives information about Faculties and Graduate schools, as well as departmental research interests and themes. It also contains information about the University's taught postgraduate courses. You can obtain a copy from: International & Postgraduate Service, No 1 The Square, University of Glasgow, Glasgow, G12 8QQ, telephone 0141-330 4440 or browse through it online:

<http://www.gla.ac.uk/postgraduate/prospectus/>

**Courses for Adults:** a number of courses available in the Department of Adult and Continuing Education are contained in the Catalogue on pages 8 – 16. Further information on these, and other, Adult and Continuing Education courses, including language courses, can be obtained from the Department. Courses may be timetabled for day, evening or weekends. Contact: the Enrolment Secretary, DACE, St Andrew's Building, 11 Eldon Street, Glasgow G3 6NH or browse online at:

<http://www.gla.ac.uk/departments/adulteducation/>

**Disability Statement for Students:** this states the University's policy regarding students with disabilities and special needs. For a copy please contact: Student Disability Adviser, John McIntyre Building, University of Glasgow, G12 8QQ, telephone 0141 330 5497, email: [studentdisability@gla.ac.uk](mailto:studentdisability@gla.ac.uk).

**Glasgow University Library:** produces a leaflet that will introduce you to the library and the facilities it offers. For a copy please contact: The Enquiry Desk, Glasgow University Library, University of Glasgow, Glasgow, G12 8QQ, telephone: 0141-330 6704, e-mail: [library@lib.gla.ac.uk](mailto:library@lib.gla.ac.uk).

Web site: <http://www.lib.gla.ac.uk/>.

**A Guide to Registry Services:** contains information about the services the Registry provides for students. All the information contained in the guide as well as lots more is available on-

line at: <http://www.gla.ac.uk/registry>. For further information please contact: The Registry, Gilbert Scott Building, University of Glasgow, Glasgow, G12 8QQ, telephone: 0141-330-4245, e-mail: [reg.enq@admin.gla.ac.uk](mailto:reg.enq@admin.gla.ac.uk).

**International Student's Handbook:** has been compiled to help international students through most of the formalities and procedures both before and after arrival in Glasgow and to offer advice and support. This is available online at:

<http://www.gla.ac.uk/Publications/ish>. For further information please contact the International Student Advisers e-mail: [a.mcgregor@admin.gla.ac.uk](mailto:a.mcgregor@admin.gla.ac.uk) or [k.heggie@admin.gla.ac.uk](mailto:k.heggie@admin.gla.ac.uk).

**Study Abroad Course Catalogue:** is a reference guide to courses which are available for students from outside the E.U. who are studying at the University for a semester or a year as part of a Study Abroad programme. This is available online at:

<http://www.gla.ac.uk/international/studyabroadprogramme/>.

For further information please contact International & Postgraduate Service, No. 1 The Square, University of Glasgow, Glasgow, G12 8QQ, Telephone: +44 141 330 6516, Fax: +44 141 330 4045, e-mail: [C.McGowan@admin.gla.ac.uk](mailto:C.McGowan@admin.gla.ac.uk)



## List of departments offering courses in this catalogue

Accounting and Finance  
Adult and Continuing Education  
Archaeology  
Biomedical and Life Sciences  
Celtic  
Central and East European Studies  
Chemistry  
Classics  
Computing Science  
Economic and Social History  
Economics  
Educational Studies  
Electronics and Electrical Engineering  
English Language  
English Literature  
Geographical and Earth Sciences  
History  
History of Art  
Humanities Advanced Technology  
and Information Institute  
Immunology, Infection & Inflammation  
Law, School of  
Management  
Mathematics  
Music  
Philosophy  
Physics and Astronomy  
Politics  
Psychology  
Public Policy (taught within the Department of Urban  
Studies)  
School of Modern Languages and Cultures  
- French  
- German  
- Hispanic Studies  
- Italian  
- Slavonic Studies  
Scottish Literature  
Sociology, Anthropology and Applied Social Sciences  
Statistics  
Theatre, Film and Television Studies  
Theology and Religious Studies

## Guide to Course Entries

### DEPARTMENT

The department that teaches the course. Some courses are taught by more than one department: consult the Course Index at the end of the Catalogue to identify the department under which the course is listed.

### COURSE NAME/CODE

Most Honours programmes are essentially two year courses taught over levels 3 and 4. Where this is the case, the course description appears under the level 3 entry and the level 4 entry references this.

### CREDITS

Number of credits assigned to each course. 360 credits are required for a General/Designated Degree (except for the BD (Ministry) General Degree, for which 480 credits are required). 480 credits are required for an Honours Degree (excluding credit for the year abroad spent by students studying a foreign language at Honours Degree level). Students who commenced study in the Faculty of Arts or on the MA (Social Sciences) prior to October 2000 should consult their Adviser of Studies to confirm the credit rating of their degree.

### LEVEL

Except for Level 1 courses, courses normally have one or more prerequisites (see Requirements of Entry below) at the previous level: e.g. Level 2 courses have prerequisites at Level 1, Level 3 courses have prerequisites at Level 2, etc. Some Honours courses are shown as Level 3 / 4: these are essentially two year courses with prerequisites at Level 2 (and sometimes also at Level 1).

### WHEN TAUGHT

Indicates when a course is taught during the academic year:

“**Full Year**” is a thirty week teaching and examination period running throughout semesters 1 and 2.

“**Semester 1**” is a fifteen week teaching and examination block running from September to January in the first half of the academic session.

“**Semester 2**” is a fifteen week teaching and examination block running from January to June in the second half of the academic session.

### TIMETABLE

The days and times of classes and the method of teaching/learning used, including laboratory work, field work, tutorials, etc. Please note that this information can be subject to change. Up to date information can be obtained from the Department.

### REQUIREMENTS OF ENTRY

The requirement guaranteeing entry to the course, usually involving courses taken in earlier years (prerequisites). For admission to Honours, Faculty requirements must be met in addition – see Degree Regulations in the University Calendar. If an entry requirement involves a course taken in the same year, it is termed a co-requisite.

### CO-REQUISITE

An entry requirement that requires a course to be taken in the same year.

### EXCLUDED COMBINATIONS

Courses that are mutually exclusive as part of a minimum graduating curriculum, i.e. only one of the courses can count towards your degree.

### ASSESSMENT

How the course is assessed – includes all examinations, essays, project work and other coursework that counts toward the final grade or Honours classification together with the weighting of each.

### DEGREE EXAMINATION TAKEN IN

The month(s) the degree examination is usually held.

### RESIT EXAMINATION TAKEN IN

The month(s) the resit examination is usually held.

### AIMS

The aims of a course are a statement of what the department is setting out to provide educationally for students taking the course. As well as aims, for each course there are also intended learning outcomes which indicate what students should know and be able to do at the end of the course. Learning outcomes are included in course documentation provided by departments to students taking a course.

### HONOURS COURSE PRESCRIPTION

A description of what Honours courses are necessary to satisfy the requirements for the Honours degree concerned.

### COURSE CO-ORDINATOR

The member of staff responsible for the course including its administration.

## Course Entries

### Accounting & Finance

#### 8BHU BUSINESS REPORTING & FINANCIAL MANAGEMENT 1

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Wednesday 12-1pm and Thursday 12-1pm, tutorials tba.

*Requirements of entry:* There are no pre-requisites for entry to this course.

*Excluded Courses:* Students cannot take this course along with Financial Accounting 1

*Assessment:* Computer based assessment = 25%, Class Test (a 45 minute objective test in the last lecture slot in week 26) = 25%, Degree examination (11/2-2 hours) = 50%

*Aims:* The general aims of this course are: 1) to provide students with a challenging and interesting introduction to the ideas and practices of financial accounting, 2) to examine the collection and processing of accounting data in order to prepare financial statements, 3) to examine the concepts that underpin financial accounting, 4) to examine the use of financial accounting information. 5) to introduce students to the social and political role of accounting.

*Course Co-ordinator:* Miss Heather Tarbert

#### 4YJU ENVIRONMENT OF INTERNATIONAL BUSINESS

*Credits:* 15 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Seminars are held during Semester 1 each Friday from 2.00 pm to 5.00 pm.

*Assessment:* Coursework Project 40%; Degree examination: 60%. No exemptions.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aim of the course is to give students a broad and critical understanding of the international business environment within which multinational corporations operate, and to understand the major strategic planning issues facing MNC management. Students will develop critical skills in assessing the impact of the business environment on real-world company situations. The emphasis throughout is on understanding and being able to articulate the fundamental issues involved.

*Course Co-ordinator:* Dr Andrew Johnston

#### 6KHU FINANCE 1

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Assessment:* One 2-hour paper (75%), plus class test (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is a compulsory first year B.Acc course which introduces students to the fundamentals of Corporate Finance. It focuses on identifying the financial objective of the firm and on understanding how the principal financial decisions should be made within the firm in order to achieve this objective. Coverage will include sources of company finance, an introduction to capital markets and the principles of security valuation, methods of investment appraisal and an overview of portfolio theory. These ideas are developed in the second year course, Finance 2, and together these two courses provide the basis necessary for students who wish to take Finance options at Honours level.

*Course Co-ordinator:* Mr Michael Keeley

#### 3BLU FINANCIAL ACCOUNTING 1

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday 3.00-4.00 pm; Tuesday 12.00-1.00 pm, Thursday 1.00-2.00 pm. Tutorials: one tutorial per week. Plus computer laboratories.

*Requirements of entry:* This course is only available to students in the Department of Accounting and Finance. For alternative courses see Business Reporting and Financial Management and Management Accounting and Finance.

*Assessment:* Assessment will be based on coursework, class examinations and final degree examinations. The coursework consists of one group computer based project which will account for 20% of the total assessment. The class examination will account for 20% of the total assessment. The degree examinations will account for the remaining 60% of the total assessment.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The general aim of this course is to provide a challenging and interesting introduction to the theory and practice of financial accounting. Coverage will include discussion of the role of financial accounting within society. Exploring the collection and processing of accounting data in order to prepare financial statements, with reference to both the underlying concepts and the use of that information. The course also includes the use of computers largely through computer assisted learning and coursework. Finally, the course aims to help you develop certain personal transferable skills, such as listening and taking notes in lectures, gathering, organising and interpreting information and working with others. This will be achieved in various ways including your participation in tutorials and computer laboratories.

*Course Co-ordinator:* Mrs Suzanne McCallum

#### 5LGU INTRODUCTION TO BUSINESS STATISTICS 1

*Credits:* 15 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* 2 Lectures per week, Wednesday - 10.00 am, Friday - 11.00 am. 7 Tutorials throughout the Semester.

*Requirements of entry:* Students must undertake and pass the Basic IT Skills Course (BITS)

*Assessment:* One 2-hour paper (75%); coursework (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of the course is to enable students to develop an understanding of the introductory statistical concepts and quantitative methods for data analysis, which are used in the study and practice of accounting and finance. The investigation of the statistical and quantitative concepts will take place in a decision-making context, which focuses on the variety of business problems found in the field of accounting and finance.

*Course Co-ordinator:* Mrs Margaret Milner

### **3CGU MANAGEMENT ACCOUNTING & FINANCE 1**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures will be held on Wednesday and Thursday lunchtimes from 12-1pm.

*Requirements of entry:* Students cannot take this course in conjunction with or if they have already taken Management Accounting 1. Students will be assumed to have sufficient experience in the use of computers to use simple PC based Computer Assisted Learning Materials.

*Assessment:* 50% coursework and 50% final degree examination.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course aims to provide students with an introduction to management accounting and investment appraisal so as to help them understand the role of accounting and financial information within management and improve their knowledge of the use of financial information in decision making.

*Course Co-ordinator:* Miss Heather Tarbert

### **3BPU MANAGEMENT ACCOUNTING 1**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures and Workshops: normally Monday (3.00-5.00 pm), Tuesday (3.00-4.00 pm) and Thursday (3.00-5.00 pm), weekly tutorials TBA (not all sessions will be used in all weeks).

*Requirements of entry:* Basic IT Skills. This course is only available to students in the Department of Accounting and Finance. For alternative courses see Business Reporting and Financial Management and Management Accounting and Finance.

*Assessment:* The course work and / or class exams will account for 30% and the degree examination (2 hours) for 70% of the total assessment.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The general aim of this course is to provide you with an introduction to Cost and Management Accounting. The course is taught in the context of principles and theories relevant to the study of cost and management accounting systems, where the teaching of computational skills is aimed at relating accounting techniques to these theoretical frameworks. The course is set within an organisation theory approach to management accounting and specifically identifies the need to utilise different financial and non-financial data for different management purposes. The course also aims to provide you with skills which will be used in the working environment such as gathering, organising and interpreting information and working with others.

*Course Co-ordinator:* Mr Gregory Stoner

### **5MJV BUSINESS STATISTICS 2**

*Credits:* 15

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 Lectures per week - Wednesday 10am and Friday 11am. Tutorials TBA (will not run every week and will be a mix of computational/discussion sessions and computer laboratories).

*Requirements of entry:* Introduction to Business Statistics 1

*Assessment:* One 2-hour paper (75%); project (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of this course is to enable students to develop an understanding of the applications of statistical concepts and quantitative methods in the study and practice of accounting and finance. The course will cover a variety of statistical techniques and quantitative models that support decision-making processes. Models and modelling process will be a prime focus.

*Course Co-ordinator:* Mrs Suzanne McCallum

### **6KHV FINANCE 2**

*Credits:* 15

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* One two hour lecture per week plus tutorials TBA.

*Requirements of entry:* Students should normally have attained a pass at minimum Grade D in Finance 1 or equivalent.

*Assessment:* One 2-hour paper (75%) and group project (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course builds on the ideas introduced in Finance 1 and Finance 2 aims to provide students with a thorough understanding of corporate finance, while also introducing aspects of capital markets finance. Together, Finance 1 and 2 aim to provide students with the core finance knowledge required of BAcc students. Finance 2 also aims to provide students with a thorough foundation for the study of subsequent optional finance courses. Finance 2 aims to consolidate ideas introduced

in Finance 1 by applying them to specific special topics such as leasing, acquisitions and options, as well as introducing the analysis of the financing decision. The course emphasises the practical implications of finance theory and its application in financial decision making.

*Course Co-ordinator:* Mr Christopher Coles

### 3BLV FINANCIAL ACCOUNTING 2

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Tuesday (10-11am) and Friday (9-11am). Tutorials plus computer assisted learning (CAL) hours TBA.

*Requirements of entry:* Successful completion of a level 1 financial accountancy course, normally Financial Accounting 1.

*Assessment:* The assessment will be based on the aggregate of marks awarded for the course-work and / or class exam(s) (25%) and the degree examination (75%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims to: (i) advance students' ability to prepare accounts in accordance with relevant standards; (ii) to encourage students to apply a critical and analytical approach to accounting, and (iii) to enhance students' analytical and presentational skills.

*Course Co-ordinator:* Mr Gregory Stoner

### 471B INFORMATION AND COMPUTER SYSTEMS BACC

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 lectures per week, Monday 12.00 noon, Wednesday 12.00 noon. Weekly tutorials/computer labs TBA.

*Requirements of entry:* Financial Accounting 1 and Management Accounting 1, or similar and Basic IT Skills.

*Assessment:* One 3-hour paper (75%). Course work Project (with group work) (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The principal aim of this course is to enable students to develop an understanding of the nature and role of information systems within organisations, together with an awareness of the practical implications of some of the crucial aspects of the working and development of information systems. As most organisations use computers to aid, or form the basis of, their information systems it is essential that students have a rudimentary knowledge of computers and Information Technology (IT) and are aware of the problems and benefits associated with the use of computers and IT to perform organisational/business tasks. Consequently, secondary aims of the course include: to ensure that students are acquainted with a basic core knowledge of computers and IT, to provide students with an understanding of, and 'hands-on' IT skills in the use of, a PC based database management system, and to provide an understanding

of the principal effects that computers and IT may have on information systems within organisations. It is important to stress that, so far as this course is concerned, computing and IT knowledge is NOT an 'end' in itself but is an important element in the understanding of contemporary information systems. In addition to the specific subject based aims noted above, the course also aims to enhance students' critical and analytical skills and to further develop group and interpersonal skills, through the teaching and assessment of the course.

*Course Co-ordinator:* Mr Gregory Stoner

### 3BPV MANAGEMENT ACCOUNTING 2

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 lectures per week. Thursday 9-11am; Friday 10-11am. Tutorials are held fortnightly.

*Requirements of entry:* Successful completion of a first level management accounting course; B.Acc. students must normally have a pass in Accountancy 1 or Management Accounting 1.

*Assessment:* The assessment for this course will be based on the aggregate of marks awarded: Personal coursework 25%; 2 hour degree examination 75%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are to help students to develop a thorough knowledge and understanding of the theory, principles, concepts and techniques used in management accounting primarily to assist managers in running a more effective business; and, to critically examine the suitability and effectiveness of management accounting approaches for a variety of management challenges.

*Course Co-ordinator:* Prof Ken Shackleton

### 345B TAXATION

*Credits:* 30 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: Semester 1 Tuesday 9.00-10.00am, Wednesday 10.00-12.00 noon Semester 2 Monday 4.00-5.00 pm, Tuesday 4.00-5.00 pm, Thursday 4.00-5.00 pm 1 tutorial per week

*Requirements of entry:* Financial Accounting 1 and Management Accounting 1.

*Co-requisites:* None

*Excluded Courses:* Tax Law

*Assessment:* Assessment: based on class exam in Semester 1, group coursework in Semester 2 and final degree examinations. The class exam will account for 25% and the coursework will also account for 25% with the balances of 50% based on the final degree exam.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are: (1) to explain the most important elements of the principal UK taxes; (2) to develop a critical understanding of the different sources of tax law; (3) to provide students with the

knowledge and skills necessary to calculate income tax, corporation tax, capital gains tax, inheritance tax and value added tax liabilities; (4) to introduce students to the legal skills relevant to the interpretation of fiscal legislation; (5) to meet the accreditation requirements of the appropriate accountancy professional bodies.

*Course Co-ordinator:* Ms Elspeth Napier

### **91TC ACCOUNTING & BUSINESS ETHICS 3**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Most seminars will be held each Monday during Semester 2 from 12-2pm.

*Requirements of entry:* Prerequisites for the course will normally be a pass in Financial Accounting 2 however, entry to the course will be at the discretion of the course coordinator.

*Assessment:* Assessment of the course will be based on one piece of coursework (40%) and a degree exam in May/June (60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course has three key aims: firstly to give students the opportunity to explore the ethical foundations upon which accounting practice is based; secondly to study the way in which ethical decision making takes place within the context of business organisations; and finally to give students the opportunity to explore a number of different ethical theories and apply those theories in the analysis of business ethics dilemmas.

*Course Co-ordinator:* Prof Kenneth McPhail

### **93WW ACCOUNTING FOR MANAGEMENT CONTROL**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* 1 Lecture per week (2-4pm) and Tutorials fortnightly.

*Requirements of entry:* Management Accounting 2

*Assessment:* One 2-hour exam paper (Ordinary) or one 3-hour exam paper (Hons) worth 75% and one group case study worth 25%.

*Degree Examination taken in:* May/June

*Aims:* Modern business enterprises operate in dynamic complex environments where the management control system (MCS) must be responsive and flexible. Using contingency theory, transaction cost economics and motivation theory, an analysis of the interaction between the MCS and managerial behaviour is undertaken. This is effected through an MCS framework which considers the choice of performance indicators, targets, rewards and learning relative to corporate strategy. Specific topics such as EVA, balanced score card, transfer pricing, allocation and strategic investment decisions enable the practical and theoretical dimensions to be considered simultaneously. The course aims to improve understanding of the MCS and the design choices available; critical

appraisal of literatures; competence in numerical computation; development of interpersonal and group skills.

*Course Co-ordinator:* Prof Clive Emmanuel

### **91JK ACCOUNTING HISTORY**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Two hours of seminars per week (Wednesday 10-12 noon), weekly tutorials.

*Requirements of entry:* Normally a pass at a minimum of grade D in Financial Accounting 2 and Management Accounting 2 will be required.

*Assessment:* The assessment for this course will be based on the aggregate of marks awarded. Group assessment of presentations/essays 40%. 3 hour degree examination 60%.

*Aims:* The primary aim of this course is to broaden students' perspective and appreciation of the evolution of accounting thought and practice from early civilisation to present times in a comprehensive yet critical manner, within the context of the social, political and economic environment at times. The process of professionalisation in the evolving structure of the accounting profession and its relationship with the state is considered within differing theoretical frameworks. Consideration will be given to the introduction and development of management accounting in organisations and the relationship of theory to practice. In addition students will develop research and analytical skills in accounting history through archival research and critical appraisal of research papers. Key skills will be developed through the group presentations for presentations and participation in seminars and tutorials.

*Course Co-ordinator:* Prof Ken Shackleton

### **87CG ACCOUNTING HISTORY (SEMESTER 2)**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Two hours of seminars per week (Wednesday 10-12 noon), weekly tutorials.

*Requirements of entry:* Normally a pass at a minimum of grade D in Financial Accounting 2 and Management Accounting 2 will be required.

*Assessment:* The assessment for this course will be based on the aggregate of marks awarded. Group assessment of presentations/essays 40%. 3 hour degree examination 60%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The primary aim of this course is to broaden students' perspective and appreciation of the evolution of accounting thought and practice from early civilisation to present times in a comprehensive yet critical manner, within the context of the social, political and economic environment at times. The process of professionalisation in the evolving structure of the accounting profession and its relationship with the state is considered within differing theoretical frameworks. Consideration

will be given to the introduction and development of management accounting in organisations and the relationship of theory to practice. In addition students will develop research and analytical skills in accounting history through archival research and critical appraisal of research papers. Key skills will be developed through the group presentations for presentations and participation in seminars and tutorials.

*Course Co-ordinator:* Prof Ken Shackleton

### **89KY ADVANCED ACCOUNTING THEORY**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* 1 lecture per week (Friday 2.00-4.00 pm) and one tutorial per fortnight.

*Requirements of entry:* A pass in Financial Accounting 2 or equivalent.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* One 3-hour paper (75%) and continuous assessment (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course will provide students with a critical overview of the different approaches to research in financial accounting and the main research areas in financial accounting, and will specifically review : 1) the development of accounting theory and practice and the link between the two; 2) the different bases of accounting theory - alternative methodological approaches and foundation disciplines; 3) the development of accounting policy; and 4) the main research areas in financial accounting research.

### **93WN ADVANCED FINANCIAL ACCOUNTING PRACTICE**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* One Lecture per week (Tuesday 2-4pm). Tutorials will run one per fortnight.

*Requirements of entry:* A pass in Financial Accounting 2 or equivalent.

*Assessment:* Degree examination (75%) and coursework (25%).

*Degree Examination taken in:* May/June

*Aims:* To critically examine current financial accounting practice for a selection of topics, some of which are controversial. To develop a thorough knowledge and understanding of the accounting principles, concepts, regulations and techniques, applicable to the selected topics.

### **87CM AUDITING THEORY AND PRACTICE**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* One Lecture per week (Monday 12-2pm). One tutorial per fortnight.

*Requirements of entry:* A pass in Financial Accounting 2 or equivalent.

*Assessment:* Degree Examination (75%) and coursework (25%).

*Degree Examination taken in:* May/June

*Aims:* The course will provide students with an introduction to the principles of auditing and auditing techniques. The course will specifically review: 1) the theory of auditing; 2) the practical application of that theory; 3) the regulatory framework for audit; 4) the pressures and problems facing the audit profession.

*Course Co-ordinator:* Dr John McKernan

### **90CB CAPITAL MARKETS THEORY**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* One two hour lecture per week (Monday 2.00-4.00 pm) plus tutorials TBA.

*Requirements of entry:* Students should normally have attained a pass at a minimum Grade D in Finance 2 or equivalent.

*Assessment:* One 3-hour paper (75%) and continuous assessment (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of this course is to provide students with a thorough understanding of the nature of financial markets and of the securities that are traded on them. The course stresses the necessity of deciding on the Investment Goals before taking any other decisions. Concepts of risk, return and valuation are central to developing this understanding, various asset pricing models will be applied to practical investment problems. The tutorials are structured to encourage students to apply the principles taught in the lectures to problems actively arising in the Financial Markets. Whenever possible, current issues in the Financial Markets will be examined to demonstrate how to apply investment principles.

*Course Co-ordinator:* Dr Juliana Jetty

### **93WQ CONTEMPORARY FINANCIAL REPORTING ISSUES**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* One seminar per week, Friday (11-1pm).

*Requirements of entry:* A pass in Financial Accounting 2 or equivalent.

*Assessment:* Degree Examination (60%) and coursework (40%).

*Degree Examination taken in:* May/June

*Aims:* By examining financial reporting through various critical lenses, this course aims to help students to: 1) develop more critical and theoretically informed evaluative insight into the discipline of accounting and its functioning in society; 2) recognise financial reporting as an interested social practice; 3) critically appreciate

what is at stake in certain contemporary financial reporting debates.

*Course Co-ordinator:* Dr John McKernan

### **89KR ENVIRONMENTAL ACCOUNTING, FINANCE AND REPORTING (ONLY AVAILABLE IN 2007-2008)**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Two hours of weekly lectures in Semester 2. Six hourly tutorials in Semester 2 and a student presentation.

*Requirements of entry:* Financial Accounting 2, Management Accounting 2 or Finance 2.

*Assessment:* 3-hour paper (65%); presentations in seminars (10%) and coursework essay (25%).

*Degree Examination taken in:* May/June

*Aims:* The aim of this course is to develop students' understanding of environmental accountability and in so doing, their ability to critically analyse accounting, finance, reporting and auditing practices. Existing environmental accounting, finance reporting and auditing practices are studied. Emphasis will also be placed on developing the key skills of critical analysis, collecting, organising and interpreting materials, and written and oral communication.

*Course Co-ordinator:* Prof Kenneth McPhail

### **92EZ FINANCIAL MARKETS & FINANCIAL INSTITUTIONS**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: every Friday at 12-2pm during Semester 2. Tutorials: TBA

*Requirements of entry:* Finance 1 and Finance 2.

*Assessment:* Students will be required to submit one piece of written work, which will count for 25% of the total assessment. The remaining 75% will be based on the degree examination.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aim of this twenty-hour course is to give students a comprehensive and up to date coverage of the modern theory and practice of financial markets and financial institutions. The course has a strong international dimension. The specific aims of the course are: (1) to understand the nature of the domestic and international markets for capital and financial services and the central role of banks and other financial institutions in these markets. (2) to understand the specific nature of retail, wholesale and corporate banks as independent banks and as constituent elements of a larger universal bank. (3) to understand the specific nature of insurance, pension fund, unit trust and investment trust financial institutions, and their corresponding fund management arms. (4) to understand the common underlying theory (information asymmetry, adverse selection, moral

hazard at the level of transactions, and financial intermediation theory at the level of financial institutions) underpinning our understanding of all of these financial institutions. (5) to understand the role of intangibles in intermediation in these financial institutions. (6) to understand how financial institutions play a central role in market based mechanisms for the production of information and the governance of companies. (7) to understand how and why the above financial institutions are regulated in retail and wholesale markets.

*Course Co-ordinator:* Prof John Holland

### **92GR FINANCIAL STATEMENT ANALYSIS**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* One seminar per week (Thursday 11-1pm) and tutorials TBA.

*Requirements of entry:* Finance 1, Financial Accounting 2, Management Accounting 2.

*Assessment:* Assessment will be by means of group assignment (35%) and a 3-hour exam (65%)

*Degree Examination taken in:* May/June

*Aims:* The course presents a theoretically informed analysis of firm value using accounting data. By the end of the course students should be able to undertake a coherent analysis of company performance and potential shareholder value using published accounts. Considerable emphasis is placed on the analysis of published accounts for major UK companies.

*Course Co-ordinator:* Mr Mark Aleksanyan

### **93WT INTERNATIONAL FINANCIAL ACCOUNTING**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* One seminar per week, fortnightly tutorials. Tuesday 11-1pm.

*Requirements of entry:* Accountancy 2 or Financial Accounting 2 and Management Accounting 2.

*Assessment:* Ordinary course: one 2-hour paper; Honours course: 3-hour paper (75%) of total marks. One group coursework assignment (20%); group tutorial presentations (5%).

*Degree Examination taken in:* May/June

*Aims:* The aims of this course are: (1) To provide students with an understanding of the nature of, and influences on, financial reporting practices in different countries. Emphasis is placed on the importance of a country's cultural, social, economic, legal and political environment in determining the nature of the rules and regulations which govern its financial reporting practices. (2) To provide students with an understanding of the efforts made by the IASB to harmonise accounting disclosures. (3) To enable students to begin to understand and critically evaluate the economic objectives that underpin the IASB's project. (4) To introduce students to some of the key contemporary accounting issues that the IASB has attempted to address. These issues will



change year on year to reflect the current important topics as they emerge.

*Course Co-ordinator:* Prof Kenneth McPhail

### **96TG INTERNATIONAL FINANCIAL MANAGEMENT**

*Credits:* 15 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* One two hour lecture per week plus tutorials TBA. Thursday 12 noon - 2.00pm.

*Requirements of entry:* Students should normally have attained a pass at a minimum of Grade D in Finance 2 or equivalent.

*Assessment:* The final assessment for this course will be based on a 3-hour unseen written examination (75%) and the assessable course work (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course explores the complexities of corporate financial management in an international setting, where companies are subject to exchange rate risk. Exchange rate theories and their practical implications are analysed, as well as the merit of foreign exchange risk management. The course also aims to provide students with a thorough understanding of international investment and financing decisions. The course emphasises the practical implications of finance theory and its application in international financial management.

*Course Co-ordinator:* Dr Niklas Kreander

### **1X6D MANAGERIAL ACCOUNTING AND ORGANISATIONAL BEHAVIOUR**

*Credits:* 15 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Thursday 10:00 - 12:00 pm; tutorials: fortnightly.

*Requirements of entry:* Management Accounting 2

*Assessment:* The assessment for this course will be based on the aggregate of marks awarded: personal coursework 25%; three hour degree examination 75%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of this course is to make students aware of the organisational context of management accounting and to provide an understanding of developments in managerial accounting theory and practice. The intention is to make students aware of the wider context in which formal accounting controls are set. Thus, the aim is to complement traditional management accounting literatures and widen the scope for a broader study of the subject. The study is widened to encompass the European dimension of theory and practice. The course aims to: improve the knowledge base and understanding of the nature and role of managerial accounting; encourage a critical appraisal of the literatures; develop interpersonal and presentational skills and stimulate research interests and perspectives.

*Course Co-ordinator:* Dr Kirsten Kininmonth

### **91DC RESEARCH METHODOLOGY**

*Credits:* 15 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* January - March

*Requirements of entry:* There are no prerequisites.

*Co-requisites:* Within the B.Acc degree students are allowed to take the dissertation, which is weighted equivalent to two taught courses as an option.

*Excluded Courses:* Undertaking a dissertation without first completing the Research Methodology course is, normally, not allowed.

*Assessment:* Coursework: (Research Proposal) 30%; Final Examination: 70%.

*Degree Examination taken in:* May/June

*Aims:* The course has three related but separable aims: To provide students with a critical awareness and understanding of the range of different methodological approaches that may be adopted in research, together with an understanding of the beliefs and assumptions that underlie them. To identify the range of research methods that are used in the domains of accounting and finance generally, in order that the merits of different approaches to particular issues can be critically evaluated. To provide students with the background necessary to enable them to formulate and plan their own research and, in particular, their own dissertation.

*Course Co-ordinator:* Prof Clive Emmanuel

### **89MU SOCIAL ACCOUNTING, REPORTING AND FINANCE 3**

*Credits:* 15 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Weekly lectures of two hours. Later on in the week a seminar/tutorial.

*Requirements of entry:* Pass at Grade D or higher of one of the following; Financial Accounting 2, Finance 2 or Management Accounting 2.

*Co-requisites:* There are no co-requisites but the course should complement, particularly well, both Environmental Accounting and ABE.

*Aims:* Knowledge-based: The aim of this course is to develop student's understanding of accountability and the place of accounting and social accounting within it. In so doing, the course aims to provide the student with the opportunity to develop their ability to critically analyse accounting, reporting and finance practices. Existing social accounting, reporting and finance practices are studied and the possibilities for new and different forms of accounting are explored. Skill-based: Emphasis will be also be placed on developing the key skills of critical analysis, collecting, organising and interpreting materials, and written and oral communication. In addition, the opportunity to develop reasoning, debating and imaginative skills will be provided.

*Course Co-ordinator:* Prof Kenneth McPhail

### **88CT ACCOUNTING AND LITERATURE**

*Credits:* 15 *Level:* 4

*When Taught:* Semester 1 (September - January)

*Timetable:* One Seminar per week, Wednesday (10 - 12 noon)

*Requirements of entry:* Due to the seminar style of the course the size of class will be limited to 20 students. A pass in Financial Accounting 2 or an equivalent will normally be prerequisite for entry to the course. Should demand exceed supply, admission will be based upon performance in Financial Accounting 2.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Degree examination (60%) continuous assessment (40%)

*Degree Examination taken in:* May/June

*Aims:* Students will be encouraged to see accounts as texts, written, or authored, read, interpreted and criticised in much the same way as any piece of "literature". The course will have certain recurring themes at its core: For example the nature of truth in accounting and literature, the fact versus fiction dichotomy, and the relationship between intention and meaning. This course aims to: (1) enable students to test and explore an important perspective on accounts; that of "accounts as literature"; (2) help students to develop an appreciation of the ways in which our understanding of the nature and role of accounting might change if we approach it through the lens of literary theory; (3) introduce students to a range of literary theories, help them appreciate how literary theory has developed in recent times, and enable them to bring that theory into a productive confrontation with accounting.

*Course Co-ordinator:* Dr John McKernan

## Adult & Continuing Education

### 9CT7 ANCIENT EGYPTIAN ART

*Credits:* 10

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesdays, 19.00-21.00.

*Co-requisites:* None.

*Assessment:* Essay 1, 30% Essay 2, 30% Examination, 40%

*Degree Examination taken in:* January

*Resit Examination taken in:* May/June

*Aims:* This course looks at the art of Ancient Egyptian tombs and temples, and the ideas and beliefs associated with them. Students will be expected to learn about the basic techniques and principles of the ancient artists, as well as specific masterpieces of Egyptian art. Particular emphasis will be put on how to use artworks as a primary source for the study of the history and culture of Ancient Egypt.

*Course Co-ordinator:* Dr Angela McDonald

### 9CU7 ANCIENT EGYPTIAN TEMPLES

*Credits:* 10

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesdays, 19.00-21.00.

*Co-requisites:* None.

*Assessment:* Essay 1, 30% Essay 2, 30% Examination, 40%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* We will explore the architecture of Ancient Egyptian tombs and temples, and the ideas and practices associated with them. Students will be expected to learn about different types of Egyptian temple, as well as specific temples such as the pyramid complexes of Giza and the temples of Thebes. Particular emphasis will be put on how to use archaeological sites as a source for the study of Ancient Egypt, and on how to interpret archaeological sites in their social and historical context.

*Course Co-ordinator:* Dr Angela McDonald

### 9CW7 ANCIENT EGYPTIAN TEXTS 1

*Credits:* 10

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesdays, 14.00-16.00.

*Co-requisites:* None.

*Assessment:* Translation exercises: week 6, 30% Translation exercises: week 10, 30% Examination: end of course, 40%

*Degree Examination taken in:* January

*Resit Examination taken in:* May/June

*Aims:* This course will look at the hieroglyphic monuments of Ancient Egypt, with particular emphasis on funerary inscriptions from the Middle Kingdom, c. 2100-1750 BC. Students will study hieroglyphic writing and the Ancient Egyptian language in order to read various funerary inscriptions. The course will also look at the social life and religion of Ancient Egyptians in order to explain these monuments. Particular emphasis will be put on using real monuments as primary sources for the study of Ancient Egypt.

*Course Co-ordinator:* Dr Angela McDonald

### 9CX7 ANCIENT EGYPTIAN TEXTS 2

*Credits:* 10

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesdays, 14.00-16.00.

*Requirements of entry:* Students enrolling for this course would normally have completed Course 9CW7 (Ancient Egyptian Texts 1).

*Co-requisites:* None.

*Assessment:* Translation exercises: week 6, 30% Translation exercises: week 10, 30% Examination: end of course, 40%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course builds upon skills and knowledge acquired in Ancient Egyptian Texts 1. We will continue to look at and read the hieroglyphic monuments of Ancient Egypt, including funerary inscriptions and royal inscriptions.

*Course Co-ordinator:* Dr Angela McDonald

**1MY7 CLASSICAL GREEK CIVILISATION (MODULE 1)***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Mondays, 19.30-21.30.*Requirements of entry:* None

*Assessment:* Assessment of students will be on a basis of 50% continuous assessment and 50% final examination at the end of each course. One essay on a historical topic (25% of final grade); one essay on a dramatic subject (25% of final grade); Formal final unseen exam - 2 hours - to involve comment on prescribed texts and essay questions (50% of final grade).

*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* The Classical Greek Civilisation course is designed as two separate courses, Modules 1 and 2. Ideally Module 1 is to be taken in the first year of study and Module 2 in the second year of study. However, both courses may be taken independently, or in reverse order provided the student who takes Module 2 first undertakes some additional background reading. The course will provide a solid foundation for study of the subject at a higher level, but it will also offer the opportunity for useful background study to those whose principal area of study lies elsewhere. The course is multi-disciplinary in character: history, literature, art and philosophy will all be studied. In all of these areas the contribution of Greece to the development of later Western culture has been immense. Study will be based on English translations of Classical Greek authors. Module 1 aims to assist students in developing: 1) A knowledge and understanding of Greek civilisation through the topics studied. 2) A deeper understanding of their own civilisation by understanding more about its origins. 3) Three key modes of study of the ancient world - archaeological, historical and literary and the skills of constructive criticism associated with them. 4) Skills that will be transferable by the students to other situations - namely careful reading; accurate, clear and perceptive essay writing; reasoned argument in writing and orally; visual sensitivity to architecture and art.

*Course Co-ordinator:* Dr Angela McDonald**ONS7 CONTROVERSIES OF THE SCOTTISH ENLIGHTENMENT***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Mondays, 19.00-21.00.*Requirements of entry:* None*Co-requisites:* None*Excluded Courses:* None

*Assessment:* A short essay of around 800 words should be submitted by students at the first meeting of the second semester (25% weighting). For the second piece of assessed work (75% weighting), students will have the choice of writing an essay of around 2,500 words to be submitted at the final meeting of the second semester,

or taking a two hour traditional unseen examination at the end of the course.

*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* The course aims to: 1. Define the main elements of the Enlightenment in Scotland and in general; 2. Present some ideas and controversies during the Enlightenment of Scotland; 3. Place these within the context of the needs of a transitional society and its ideology of improvement; 4. Give brief descriptions of the intellectual histories of the most notable men associated with these ideas and controversies; 5. Support participants to critically examine and analyse ideas in a historical context; 6. Assist them to develop a critical understanding of their own ideas of social transition; 7. Help them analyse and define various unfamiliar key concepts and doctrines; 8. Support them to study selected key writings from the relevant primary and secondary literature and help them resolve problems they have with eighteenth century vocabulary, literary style and argument; 9. Create a safe environment for participants to raise questions and engage in discussion and debate; 10. Guide participants through assessment and submission requirements; 11. Give continuous positive feedback to every student's oral and written contributions; 12. Encourage students to form co-operative and supportive relationships.

*Course Co-ordinator:* Dr Robert Hamilton**JKP6 CREATIVE WRITING: FICTION***Credits:* 40*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Wednesdays, 18.00-21.00 and Saturdays, 14.00-17.00 (note: two separate cohorts)*Assessment:* Two essays each of 2,000 words (2 x 20%) and one project of 3,000 words (60%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* To introduce students to university level study in creative writing in the novel and the short story. To act as the compulsory initial course contributing to a new Certificate in Creative Writing, enabling students to go on to choose from other available courses that also count towards the Certificate. To introduce students to required norms of study skills associated with the field of Creative Writing. To build students' confidence in their ability to interpret and analyse set texts, both in creative writing and in study skills. To enable students to take their creative writing skills to the appropriate level in relation to fiction.

*Course Co-ordinator:* Dr Paul Innes**JKR6 CREATIVE WRITING: WRITING FOR CHILDREN***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Thursdays, 19.00-21.00.*Requirements of entry:* JKP6: Creative Writing:Fiction

*Assessment:* Two essays, each of 1,000 words (2 x 20%), and one project of 2,000 words (60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to university level study in creative writing for children. To build upon the compulsory initial course contributing to a new Certificate in Creative Writing. To build students' confidence in their ability to interpret and analyse a set text series in children's literature. To enable students to take their creative writing skills to the appropriate level in relation to writing for children.

*Course Co-ordinator:* Dr Paul Innes

### **5XJ7 DUTCH 17TH CENTURY PAINTING**

*Credits:* 10

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* 10 meetings, Thursdays, 10.00-12.00.

*Requirements of entry:* None

*Assessment:* 1. Essay (approximately 1500 words) from a choice of titles (70%). 2. Slide test: identification and discussion of slides (30%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course sets Dutch seventeenth century painting in its historical context. Starting with a broad overview of the art of Late Mannerism, the course will go on to focus on the wide variety of art produced in the Netherlands in the 17th century. During this period the Dutch established themselves as a new nation in Europe, becoming the continent's wealthiest and most powerful maritime nation. An account of the development of artistic categories, such as portraiture, flower-pieces and still life painting, will be given. The course as a whole also offers an introduction to the discipline of Art History and provides a solid foundation for further study in the field.

*Course Co-ordinator:* Dr Maureen Park

### **6HW7 EVOLUTION OF THE EARTH, LIFE AND ENVIRONMENTS**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Wednesdays, 19.30-21.30 plus 2 weekend field excursions.

*Requirements of entry:* A pass at grade D or better in the linked course (degree students only)

*Excluded Courses:* 1PE7 Geology and the Environment

*Assessment:* Class essays (15%); examination (30%); continuous assessment and practical work (25%); field report project (10%); map assessment (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course is designed to introduce students to: 1) effects of climate, time and long-term changes in the Earth's crust on surface processes; 2) the influence of

these processes on the Human Race and its surroundings, particularly in the prediction of geological hazards; 3) the part many processes play in the accumulation of economically valuable deposits; 4) environmental models to predict patterns of change in the light of investigation of evidence for ancient environments and Earth History. 5) fossils, formation and preservation, characteristics of the principal groups relating form to function, ecology and evolution; how fossils are used in the correlation of rocks and their value in the interpretation of ancient environments; 6) principles of stratigraphical analysis and the ways in which geological history is reconstructed; 7) interpretation of geological maps; 8) Geological history of Britain and adjacent areas during the past 3500 million years.

*Course Co-ordinator:* Dr Michael Keen

### **1NA7 FROM GIOTTO TO GAUGUIN: EUROPEAN PAINTING 1300- 1900**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Wednesdays, 10.00-12.00.

*Requirements of entry:* None

*Assessment:* Written presentation 20%; Oral presentation 20%; Essay 40%; Slide test 20%; Total 100%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* 1. To provide an introduction to the discipline of art history through the study of European painting, 1300-1900. 2. To present European painting within the cultural and historical context of Europe. 3. To study the principles and techniques of major European painters. 4. To study the changing role of the arts in society of the period.

*Course Co-ordinator:* Dr Maureen Park

### **1PJ7 FUNDAMENTALS OF PSYCHOLOGY**

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Tuesdays, 19.00-21.00 (25 meetings) and Saturdays, 10.00-16.00 (6 meetings).

*Requirements of entry:* None

*Assessment:* Final Examination (45% weighting); Two Class Exams (10% weighting for each class exam); Completion of Laboratory Work and Reports (10% weighting); Two Essays of 1,500 words (10% weighting for each essay); Contribution to Class Discussion (5%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course aims to: 1) Provide a basic understanding of how psychologists study human behaviour. 2) Give an introduction to the most significant concepts and findings of psychology. 3) Create a firm foundation for progressing into level 2 courses in Psychology.

*Course Co-ordinator:* Dr Victoria O'Donnell

**8JT7 INTRODUCTION TO ART THERAPY***Credits:* 40*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Thursdays, 18.45-21.15, and two Saturday workshops. 24 meetings in total.*Assessment:* Assessment of students will be on the basis of the following: (i) 800-1000 words Literature Review (15%) (ii) Oral Presentation of 10 minutes (20%) (iii) Critical Essay of 1500 words (25%) (iv) Personal Account of 3000 words (40%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* This course aims to provide: i) A critical account of the theories, principles and practice of Art Therapy, ii) A basic introduction to the history and development of Art Therapy as a profession, (iii) offer skills and knowledge to individuals and professional who want to expand their understanding of working with people creatively and iv) A firm foundation for possible progression on the Postgraduate Diploma Training scheme recognised by the British Association of Art Therapists. Students should be aware that a significant part of the course is given to the hands on making of artwork. Students will be expected to take part in practical, experimental, directive and non-directive workshops, group discussions and feedback. There will be an opportunity to work with a range of different media i.e. paint, clay, collage. Emphasis is placed on peer group participation and exchange of personal knowledge through experience as a method essential to the process of learning.*Course Co-ordinator:* Dr Maureen Park**KQC7 INTRODUCTION TO EVOLUTION AND ECOLOGY***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Mondays, 19.00-21.00 plus 2 study days and a weekend field course.*Requirements of entry:* No specific entry requirements are required but guidance is provided by DACE as to the suitability of individual applicants. Where it is felt necessary applicants will be advised to delay entry until they have completed a suitable preparatory course.*Assessment:* Semester 1: Report on study day 2 = 20%. Semester 2 Project essay = 20%, Report of field course = 20%. Written examination = 40%*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* The aim of this course is to provide students with an understanding of how evolution and ecology may explain the diversity of life on Earth. This will allow students to develop a broad understanding of the complexity of biological life and ecological systems.*Course Co-ordinator:* Dr Dominic McCafferty**2XX7 INTRODUCTION TO SOCIAL PSYCHOLOGY***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Mondays, 18.30-20.30 (19 meetings) plus three Saturdays, 10.00-15.00.*Requirements of entry:* None*Assessment:* Students will be asked to complete the following course assignments: (i) A practice essay (ii) One unseen one and a half hour practice examination (iii) Two essays, each approximately 1500 words in length (25% each of final mark) (iv) One final, unseen three-hour examination, with a choice of questions, under normal examination conditions. The examination will be divided into two sections: section one will consist of multiple choice questions requiring answers to questions on a broad spread of topics drawn from the course content; section two will consist of a number of essay-type questions related to the whole course; students will be required to answer two questions (50% of final mark).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* Social Psychology is concerned with all aspects of social behaviour; it studies the individual in society and behaviour in groups. The aims of the course are to study how people relate to each other, and to examine the ways in which behaviour is influenced by interaction with other individuals and groups of individuals and by social settings.*Course Co-ordinator:* Dr Victoria O'Donnell**8EW7 LATIN STAGE 1***Credits:* 12*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Tuesdays, 19.30-21.30.*Requirements of entry:* None*Assessment:* Assessment will be based on a series of written exercises completed at home (50%) and an examination which will include unseen translation at the end of the course (50%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* The course is designed to develop your reading knowledge of Latin together with translation skills. You will acquire a good basic vocabulary.*Course Co-ordinator:* Dr Angela McDonald**7NF7 MARINE BIOLOGY***Credits:* 20*Level:* 1*When Taught:* Semester 2 (January - June)*Timetable:* The course will consist of on-line learning by distance education over 12 weeks using asynchronous web conferencing followed by a 5 day field course. The examination for the course will be held during the residential field course.*Requirements of entry:* None

*Assessment:* Students will be assessed on the following: exercise to assess webpage quality (20% of final mark), a tutorial paper published on the web (20% of final mark), field course report (20% of final mark) and a field course exam (40% of final mark)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of this course is to introduce students to the basic principles that rule life in the ocean and provide an understanding of the variety of marine organisms and ecosystems found throughout the World.

*Course Co-ordinator:* Dr Dominic McCafferty

## **KPG7 MARINE MAMMAL FIELD COURSE**

*Credits:* 20

*Level:* 1

*When Taught:* Terms 3 and 4 (April - September)

*Timetable:* This is a residential field course during mid July. An introductory lecture will be held in Glasgow in June and learning resources will be made available for students to study prior to the start of the course. Exact date to be confirmed due to availability of accommodation and research vessels.

*Requirements of entry:* None

*Assessment:* Assessment will consist of assignments (60% of final grade) to be completed at home and an examination (40%) The written assignments consist of a field journal (40%) and a 1500 word essay (20%). The final examination (40%) consists of short answer questions.

*Degree Examination taken in:* August/September

*Resit Examination taken in:* January

*Aims:* The aim of this course is to examine the diversity of seals and cetaceans encountered in UK waters and throughout the World. It concentrates on the identification and behaviour of marine mammals and examines ways in which these animals are adapted to their aquatic existence.

*Course Co-ordinator:* Dr Dominic McCafferty

## **1AK7 PHILOSOPHICAL ETHICS OF SOCRATES, PLATO AND ARISTOTLE**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Thursdays, 19.00-21.00.

*Assessment:* Essay of 2,000 words (40% weighting). Exam of two hours (60% weighting).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To enable students to develop a grasp of the key ideas in the philosophical ethics of Socrates, Plato and Aristotle. (2) To acquaint students with Socratic dialogue and its definitional aims and aporetic conclusion in some of the early dialogues. (3) To introduce students to the distinctive ethical features of Plato's epistemology and metaphysics in the Symposium. (4) To develop an appreciation of Aristotle's ethics in the aims and methods of the Nicomachean Ethics.

*Course Co-ordinator:* Mr Keith Hammond

## **OQC7 POPULAR MUSIC STUDIES: AN INTRODUCTION**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesdays, 18.30-20.30.

*Requirements of entry:* None

*Co-requisites:* None

*Assessment:* One essay of up to 3,500 words (100%) based on the ILOs. The essay titles will be drawn up by the course tutor. There will also be scope for students to develop their own questions in order to pursue their particular interests (in consultation with the course tutor).

*Degree Examination taken in:* January

*Resit Examination taken in:* May/June

*Aims:* The overall aim of this course is to introduce students to Popular Music Studies as an academic discipline. Within this broad remit the course will aim more specifically: To introduce the nature of popular music and the role it plays within contemporary society and develop student understanding of this. To introduce the nature of the international popular music industries and develop student understanding of them. To introduce, and develop student understanding of the "politics" of popular music including popular music policy. To develop students' understanding of the importance of gender in popular music. To develop students' skills (including verbal and written) in the presentation of ideas about popular music. To encourage reflection about students' own use of popular music. To encourage critical engagement with key texts in Popular Music studies.

*Course Co-ordinator:* Dr Dominic McCafferty

## **8RW7 SCOTLAND AND AMERICA: LINKS AND INFLUENCES 1790-1990**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Wednesdays, 10.00-12.00.

*Assessment:* Essay 1 (30% weighting) Essay 2 (30% weighting) Examination (40% weighting)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to appreciate and to understand the long-established links between Scotland and the United States. To become aware of the diverse, overt and subtle Scottish influences operating within America. To appreciate the global tradition of interactive cultures as a feature of historical development rather than some recent change through this particular relationship. To introduce students to current scholarly debates and controversy in this area. To develop students critical and analytical skills through essays, source criticism, discussions and examination.

*Course Co-ordinator:* Dr Robert Hamilton

**KRH7 SUN AND SOLAR SYSTEM***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Wednesdays, 19.30-21.30.

*Requirements of entry:* Some elementary mathematical skills are needed before the end of the course (substitution of numerical values into expressions; qualitative interpretation of graphs) but these will be developed as needed and there are no mathematical prerequisites.

*Assessment:* Mix of final exam and continuous assessment, comprising: final examination (40%); short class test end Oct (10%) and longer test mid March (20%); report on an observational project or, exceptionally, extended essay involving independent reading, with assessment broken down into a preliminary plan (10%; end October) and final report (20%; end April).

*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* This is the first of two courses aiming to provide a broad introduction to Astronomy. The two courses together aim to: 1)give an accessible, up-to-date 'liberal arts' introduction to Astronomy, developing necessary knowledge of Physics and elementary Mathematical skills as needed; 2)provide opportunities for observing experiences that reinforce course content.

This course deals in particular with solar system science. Study of the Sun will introduce many ideas relevant to the study of stars in the companion course, 'Stars and the Universe'. This course, 'Sun and Solar System', aims to: 1)describe the locations and natures of the constituent bodies of the solar system, including the Sun, as revealed by ground-based studies and spacecraft exploration; 2)discuss atmospheres, weather systems, surfaces, interiors and magnetospheres of solar system bodies in a comparative way; 3)highlight ways in which other solar system bodies influence events on Earth (impacts, solar-terrestrial relations and the aurora, etc.); 4)review ideas of the origin of the solar system and discuss how far they can account for its current state (variety and locations of constituents, chemical abundances, etc); 5)introduce key ideas involved in discussing the likelihood of life existing elsewhere in the Universe, and explore recent, relevant discoveries (e.g. extra-solar planets).

*Course Co-ordinator:* Dr Alexander MacKinnon**6HY7 THE ANCIENT CELTS***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Wednesdays, 19.00-21.00.

*Requirements of entry:* No assumptions are made concerning prior knowledge of students entering the class and there are no specific entry requirements. NB No knowledge of a Celtic language is required.

*Excluded Courses:* Celtic Civilisation 1A 3MYU

*Assessment:* An essay (1500-2000 words) to be submitted by the end of Term 1 (25%). An essay (1500-2000 words) to be submitted by the end of Term 2 (25%). An end of course examination (2 hours) in Term 3 (50%)

*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* To enable students to get a coherent picture of salient aspects of the earlier history, institutions, society and culture of the Celtic speaking people up to AD 400. To enable students to understand and use critically the source of material from which a picture of the ancient Celtic world may be formed. To introduce students to current scholarly approaches to the Celts and Celticity including areas of particular controversy and debate. To develop students' critical and analytical skills through essay writing, source criticism, discussion and examination.

*Course Co-ordinator:* Dr Robert Hamilton**1NB7 THE ART OF THE 20TH CENTURY***Credits:* 20*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Thursdays, 18.30-20.30.*Requirements of entry:* None

*Assessment:* Students will be asked to complete: (i) One short written presentation, 800-1000 words (20% of the final grade); (ii) One oral presentation, 5-10 minutes (20% of the final grade); (iii) One essay, 1500-2000 words (40% of the final grade); One slide test (20% of the final grade).

*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* The art of the twentieth century can be both exhilarating and intimidating. Often people feel they would like to know more about it but are afraid that they will not be able to understand it or that they will be confused by all the different 'isms' of twentieth century movements. This course is all about understanding modern art. It aims to provide a general overview of some of the major movements, artists and ideas of twentieth century art and also introduces students to some of the important debates and controversies which surround the variety of art from the last century. The course as a whole offers an introduction to the discipline of Art History and provides a solid foundation for further study in the field.

*Course Co-ordinator:* Dr Maureen Park**8WL7 THE LANGUAGE OF MUSIC 1***Credits:* 40*Level:* 1*When Taught:* Full Session (September - June)*Timetable:* Thursdays, 17.15-19.15.

*Requirements of entry:* Knowledge of treble and bass clefs

*Assessment:* 3 equally weighted projects.*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* The aim of the course is to give students the skills required to understand the technical processes used by a selection of mainstream classical composers of the common-practice period (c1600-c1900), and thus to comprehend the techniques employed in many other

spheres of music, both classical and other, from different periods. The course will take students from the early stages of reading music notation and prepare them to work exercises in elementary harmony; work in that field is supported by essential ancillary work in aural perception, musical form and the music-historical context. The weekly working of graded exercises allows the student (a) to acquire accuracy and facility in writing music down, and (b) to cultivate understanding of how chords are formed and how they proceed from one to another. Students observe, from both their own progressively more ambitious attempts to imitate aspects of a piece of music and from their study of complete examples from the repertory, how a piece of music is constructed, how one section relates to another, how a tonal scheme operates over the course of an entire movement, and how thematic ideas grow and change.

*Course Co-ordinator:* Dr Stuart Campbell

### **5XP7 THE MODERN NOVEL**

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Saturdays, 10.00-13.00.

*Requirements of entry:* None

*Assessment:* Three essays (each contributing 25% of the overall grade), plus an exam of two hours (weighted at 25% of the overall grade).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* 1. To provide a detailed history of the novel in the twentieth century. 2. To present the novel within the overall context of literary historical movements in the last hundred years or so. 3. To promote study of the major principles and techniques of the different kinds of novelistic writing which have emerged since the 1890s.

*Course Co-ordinator:* Dr Paul Innes

### **SUM7 THE PSYCHOLOGY OF ADDICTIONS**

*Credits:* 20 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Mondays, 18.30-21.30 (17 meetings).

*Requirements of entry:* None

*Assessment:* Three essays. Essay 1, 25%; Essay 2, 25%; Essay 3, 50%. It is to the student's advantage to complete all three assessments. For the award of credit, a minimum of two essays (including essay 3) must be completed.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To examine a range of excessive activities linked to concepts of addiction (and, sometimes, to that of compulsion and attachment), including both substance-centred (e.g., drinking alcohol) and behavioural (e.g., sex or gambling). To review the theoretical systems devised to account for their development, the psychological and social problems arising from them and the theory, practice and outcomes of some of the "treatments" applied to them.

*Course Co-ordinator:* Dr Victoria O'Donnell

### **5XL7 WAR REFORMATION AND UNION: SCOTLAND 1500- 1715**

*Credits:* 20 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Tuesdays, 19.00-21.00 and Wednesdays, 10.00-12.00 (note: two separate cohorts).

*Requirements of entry:* None

*Assessment:* Students will be required to complete: i) an essay of 1500 words (30%), ii) a second essay of 1500 words (30%), iii) a two hour examination (40%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course aims to introduce students to the major themes in the political, religious, military and international development of Scotland from the reign of James IV to the Jacobite War of 1715. It aims to provide a background to the Late Medieval period, and will assess the 'kingship' and rule of James IV to Mary Stewart, war and diplomacy with France and England, the impact of royal minorities, and the religious and political upheaval of the Reformation crisis. The focus is on the political and religious disruption of Scotland in the Reformation century. The focus of the seventeenth century begins with an examination of the union of 1603 and its origins, the Imperial Kingship of James VI and Charles I, the Covenanting movement, the Highland Problem, the British Civil Wars and relations with Ireland. In the second term the aim is to examine the early attempts to create a British state and the opposition and problems such moves met. Finally the course aims to focus on the period 1688-1715 and examine the 'Glorious Revolution', the Jacobite threat, the origins of the Treaty of Union and its impact on Scotland. The course aims to provide a thorough preparation and foundation of knowledge and skills to enable students to proceed with confidence to further study at a more advanced level.

*Course Co-ordinator:* Dr Robert Hamilton

### **KNQ7 ADVANCED HIEROGLYPHS**

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Wednesdays, 19.00 - 21.00.

*Requirements of entry:* An average grade of at least C in 9CW7 Ancient Egyptian Texts 1 and 9CX7 Ancient Egyptian Texts 2; or demonstration of prior knowledge.

*Excluded Courses:* None

*Assessment:* Students will be expected - to prepare 3 annotated transliterations and translations of Ancient Egyptian texts with supporting commentary in their own time (20% each = 60%) - to write two essays on grammatical topics (5% each = 10%) - to complete a project on a specific genre, using one text as a detailed example comparing it and contrasting it to others within its category (30%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September



*Aims:* To develop students' language skills gained at level one; To broaden students' knowledge of Egyptian language and grammar; To provide an encouraging environment for developing translation and discussion skills; To encourage confident translation on an individual basis; To study different types of text both in Egyptian and in translation, and thus to gain an appreciation of literary and historical works; To gain an appreciation of some of the methods of Egyptological research into language; To use text study as the basis for a broader understanding of Egyptian culture and society; To use methods of assessment that will allow individual development among the participants through engagement with a personally chosen project; To encourage teamwork amongst participants through working together to solve problems; To provide opportunities for students to practise their translation skills and receive individual feedback through a wide array of formative assessment exercises; To give students experience of working with real texts in the field through museum study days.

*Course Co-ordinator:* Dr Angela McDonald

### **KRZV CRITICAL PRACTICE**

*Credits:* 20 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Initial workshop in October on Tuesday Follow up support sessions and tutorials

*Assessment:* The students will write a 2000 word report critically reflecting on an example of their community development practice

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to critically reflect on their practice in the light of a range of community development, social and organisational theories

*Course Co-ordinator:* Mr David Beck

### **8TX7 DRAWING AND PAINTING: ADVANCED COMPOSITION**

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Thursdays, 13.00-16.00.

*Requirements of entry:* Students must have completed at least one Practical Art course at Level 1, or equivalent, and will be admitted at the discretion of the tutor.

*Assessment:* Coursework (40%); Assignment / sketchbooks (40%); Essay, 2000-2500 words (15%); Personal contribution to course (5%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This is a practical art course with a small art history component. The course is designed to develop the student's awareness of advanced composition. Multiples, diptychs and triptychs have been used in the last 50 years with figures, patterns, rhythms, all as subjects of development in modern painting with its interest in the expressive use of the media. Students will produce practical work in two-dimensional media that demonstrates increasing perception of composition in their art.

Students will also research the different ways in which modern artists have approached the structure of composition in their art. Students must have already completed one practical art course at level 1 or equivalent and will be admitted at the discretion of the tutor.

*Course Co-ordinator:* Dr Maureen Park

### **KXY7 MIND AND WORLD**

*Credits:* 20 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Mondays, 19.00-21.00.

*Requirements of entry:* Successful completion of one level one Philosophy course.

*Assessment:* Essay (50%), and exam (50%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To familiarise students with a range of issues in contemporary philosophy of mind. To present various key philosophical positions in relation to those issues, and introduce students to critical perspectives on those positions.

*Course Co-ordinator:* Mr Keith Hammond

### **KRYV POPULAR EDUCATION PRACTICE**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* January One block week (Monday - Friday full days)

*Assessment:* The students will write a 2000 word essay critically reflecting on their experience of participating in Popular Education and discuss how these methods could be used in practice

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to experiment with a range of Popular Education techniques and assess their applicability for the practice of community development and social action

*Course Co-ordinator:* Mr David Beck

### **0QD7 POPULAR MUSIC HISTORY**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesdays, 18.30-20.30.

*Requirements of entry:* Successful completion of 0QC7 Popular Music Studies: An Introduction, or 20 credits at level 1 in a related field, or relevant music industry experience.

*Co-requisites:* None

*Assessment:* One essay of up to 3,500 words (100%) based on the ILOs above. The essay titles will be drawn up by the course tutor. There will also be scope for students to develop their own questions in order to pursue their particular interests (in consultation with the course tutor).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aim of this course is to place the study of the history of Popular Music within broader socio-economic trends and increase students' understanding of Popular Music Studies as an area of academic study. Within this broad remit the course will aim more specifically: To increase understanding of the nature of popular music history and its interaction with broader societal trends. To critically engage with competing versions of popular music history. To critically evaluate the role of various agencies including artists, industry and technology in the development of popular music history. To understand and be able to critique feminist critiques of popular music history To encourage the development of skills in verbal and written presentation of ideas about popular music history. To encourage critical engagement with key texts in Popular Music Studies. To understand and evaluate the importance of such social constructs as genre, gender and popular to the history and study of popular music.

*Course Co-ordinator:* Dr Dominic McCafferty

## **7EYV THE LEARNING SOCIETY: ADULT & CONTINUING EDUCATION 2**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 24 lectures/seminars on Tuesdays, 13.00-15.00 and Thursdays, 13.30-15.00 weekly.

*Requirements of entry:* A Grade D or above in an appropriate Level 1 course offered by the Faculty of Arts or Social Sciences (e.g. education, history, philosophy, sociology or social policy). Students are also encouraged to take the preceding Level 2 course.

*Co-requisites:* The Learning Society: Issues In Modern Education.

*Assessment:* One essay (40%) and two further pieces of work, each worth 30%, from a choice of: two essays; essay plus exam question; two exam questions (60%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims to: a) introduce you to adult and continuing education as a field of study and practice b) promote your understanding of the theoretical and policy concerns being addressed by adult educators in the context of the 'learning society' c) develop your capacity for critical self-awareness and other skills which are helpful to 'lifelong learning'. Also see 8JJV under Educational Studies.

*Course Co-ordinator:* Dr Brian Findsen

## **9MEW NEW TECHNOLOGY AND LIFELONG LEARNING**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Face-to-face sessions to be arranged.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of this course are as follows: To provide a rationale for and an understanding of the use of new technology in support of lifelong learning; To consider the social, political and economic issues involved in the application of new technology in widening access to both formal and informal education; To provide an asynchronous forum in which to explore, discuss, examine and reflect on these issues within a computer conferencing environment; To enable students to gain experience of a variation in learning modes, particularly that of computer mediated collaborative learning, and to understand the role and significance of teaching and learning within a Computer Mediated Conferencing (CMC) environment; To familiarise students with the various technological options for electronically mediated education by providing practical opportunities to experience a range of technology and to examine the pedagogical benefits and challenges of each.

*Course Co-ordinator:* Dr Alexander MacKinnon

## **Archaeology**

### **2KJU ARCHAEOLOGY 1X: INTRODUCTION TO ARCHAEOLOGICAL PRACTICE**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday and Thursday at 12.00 noon. One-hour practicals, tutorials and computer-based learning classes are on Tuesday, Wednesday or Friday - 2.00 pm-4.00 pm. 24 hours of lectures; one all day Saturday field excursion; 3 hours of computer-based learning classes; 3 hours of laboratory practicals; 3 hours of tutorials.

*Assessment:* Students must submit the coursework essay (25%) and complete at least half the other coursework consisting of a worksheet for the fieldtrip (12.5%) and a worksheet for the ArchTutor class (12.5%); and must sit the June examination (50%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Introduces the methodology by which archaeologists recover and study material culture, and explains how scientific techniques assist in the study of the past.

*Course Co-ordinator:* Dr Allan Hall

### **2KKU ARCHAEOLOGY 1Y: ARCHAEOLOGY OF SCOTLAND**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Two lectures a week (Tuesday/Thursday 12.00 noon), practical classes or seminars once a week (afternoon), 2 one-day field classes.

*Assessment:* Examination (50%); coursework consisting of an essay (20%) and a notebook (30%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of this course are to introduce a substantial body of knowledge which will provide an understanding of the cultural evolution of Scotland from

the end of the last Ice Age until the modern era. It covers material which will enrich the understanding of all aspects of the history and culture of Scotland.

*Course Co-ordinator:* Prof Stephen Driscoll

## **2LDU ARCHAEOLOGY 1Z: ARCHAEOLOGY IN CONTEMPORARY SOCIETY**

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures - Monday and Friday 12.00 noon. Practicals, tutorials and seminars - one hour per week on Tuesday, Wednesday, Thursday or Friday afternoons at times to be arranged.

*Assessment:* One examination paper (50%); one assessed essay (25%); plus practical worksheets (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To illustrate the ways in which archaeologists interpret material culture to reveal the past; and illustrate the use of archaeology in promoting particular social and political views of the past. By the end of the course, students will understand the relevance of archaeology in a modern society and the issues involved in the preservation and interpretation of the past.

*Course Co-ordinator:* Dr Jeremy Huggett

## **0AKV ARCHAEOLOGY 2F : FIELD ARCHAEOLOGY IN THEORY**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* This course consists of 12 x 1 hour lectures (Mondays 12 to 1pm) with tutorials and some classroom practicals.

*Requirements of entry:* Two Archaeology level 1 courses at grade D or above. This course is the equivalent of the first half of Archaeology 2G : Field Archaeology in Theory & Practice and does not allow the student to proceed to Honours Archaeology (3H). Those wishing to do so should register for the full course Archaeology 2G : Field Archaeology in Theory & Practice (9CRV).

*Assessment:* Coursework (100%)

*Aims:* The aims of this course are: (1) to provide students with an introduction to the historiography of field archaeology; (2) to examine a series of key developments in field techniques through the medium of selected sites and excavators; (3) to introduce the structures and organisation of field archaeology.

*Course Co-ordinator:* Dr Rupert Housley

## **9CRV ARCHAEOLOGY 2G : FIELD ARCHAEOLOGY IN THEORY AND PRACTICE 2**

*Credits:* 20 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* The first part of the course (semester 1) consists of 12 x 1 hour lectures (Mondays 12 to 1pm) with

tutorials and some classroom practicals. The second part (semester 2) consists of the equivalent of a total of 30 hours of practicals taught over 12 weeks (the number of hours per week may vary).

*Requirements of entry:* Two Archaeology level 1 courses at grade D or above, one of which must be Introduction to Archaeological Practice (2KJU) if the student intends to proceed to Honours (3H). This course (9CRV) is a requirement for entry to Honours (3H).

*Assessment:* Coursework (100%)

*Aims:* The aims of this course are: (1) to provide students with an introduction to the historiography of field archaeology; (2) to examine a series of key developments in field techniques through the medium of selected sites and excavators; (3) to introduce the structures and organisation of field archaeology; (4) to introduce students through practical experience to basic fieldwork methods and laboratory techniques used in archaeology.

*Course Co-ordinator:* Dr Rupert Housley

## **0AJV ARCHAEOLOGY 2H : ANALYTICAL ARCHAEOLOGY**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures and 2 practicals, Weds & Fri 12 to 1pm; plus 6 tutorials

*Requirements of entry:* Two Archaeology level 1 courses at grade D or above, one of which must be Introduction to Archaeological Practice (2KJU) if the student intends to proceed to Honours (3H)

*Excluded Courses:* This course is for students in the Science Faculty and cannot be taken in conjunction with Archaeology 2K: Interpreting Archaeology.

*Assessment:* one examination (50%); coursework (50%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to introduce students to the key developments in archaeological thought; (2) to show how interpretations are grounded in particular theoretical perspectives; (3) to provide students with a scientific perspective on archaeological data and their interpretation; (4) to train students in transferable as well as more specifically archaeological skills.

*Course Co-ordinator:* Dr Richard Jones

## **9ZAV ARCHAEOLOGY 2J : ARCHAEOLOGY OF EUROPE & THE MEDITERRANEAN**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures Weds & Fri 12 to 1pm; plus 6 tutorials

*Requirements of entry:* Two Archaeology level 1 courses at grade D or above, one of which must be Introduction to Archaeological Practice (2KJU) if the student intends to proceed to Honours (3H)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course aims: (1) to introduce students to the key themes of European and Mediterranean archaeology; (2) to situate these themes in a broad regional and chronological framework; (3) to train students in transferable as well as more specifically archaeological skills; (4) to provide an archaeological framework for other level 2 courses.

*Course Co-ordinator:* Dr Michael Given

### **9CSV ARCHAEOLOGY 2K : INTERPRETING ARCHAEOLOGY**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures Weds & Fri 12 to 1pm; plus 7 tutorials (in semester 2)

*Requirements of entry:* Two Archaeology level 1 courses at grade D or above, one of which must be Introduction to Archaeological Practice (2KJU) if the student intends to proceed to Honours (3H)

*Excluded Courses:* This course is not available for students in the Science Faculty and cannot be taken in conjunction with Archaeology 2H: Analytical Archaeology.

*Assessment:* one examination (50%); coursework (50%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of this course are: (1) to provide students with an introduction to the key developments in archaeological thought; (2) to introduce students to a series of key themes in contemporary archaeological practice; (3) to examine the relationship between archaeological data and current interpretative stances.

*Course Co-ordinator:* Dr Kenneth Brophy

### **6WXW ARCHAEOLOGICAL STUDIES 3**

*Credits:* 80

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* There are typically four lectures and up to six hours of practical/tutorials weekly throughout the session. Students take the core course Recovery and Interpretation of Archaeological Data and 3 other taught optional courses (see Archaeology 3H for details). The fieldwork requirement is 3 weeks before graduation. It is expected that students will have completed the fieldwork requirement prior to entering Level 3.

*Requirements of entry:* At level 1 students must obtain a minimum of 40 credits in Archaeology at an average of grade D or above. At level 2 students must obtain a minimum of 60 credits in Archaeology at an average of grade D or above.

*Assessment:* As for the Honours courses taken: coursework and (usually) written examination. Three-Year Degree assessment criteria used.

*Degree Examination taken in:* May/June

*Aims:* The aims of the programme are: (1) to equip the student with a basic knowledge of archaeology suitable to a career where the specialism is a subsidiary, or 'interest only' requirement, through a broad overview of

modern archaeology across a wide chronological and geographical range; and (2) to provide the student with an appreciation of cultural resources, and the importance of issues such as their protection, conservation and appropriate exploration.

*Course Co-ordinator:* Dr Allan Hall

### **100D ARCHAEOLOGY 3 (ARTS)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Four lectures and up to six hours of practicals/tutorials weekly that are taught throughout the session. Students take the core course, Recovery and Interpretation of Archaeological Data, and two other taught optional courses which as far as possible will focus on a student's area of specialisation where one is defined (see Archaeology 3H for details). Students must have completed 3 weeks of fieldwork by graduation. It is expected that students will have completed the fieldwork requirement prior to entering Level 3.

*Requirements of entry:* At Level 1, students must obtain a minimum of 40 credits in Archaeology at an average of grade D or above. At Level 2, students must obtain a minimum of 40 credits in Archaeology at an average of grade D or above.

*Assessment:* As for the Honours courses taken: assessment of coursework and (usually) written examination. Three-Year Degree assessment criteria used.

*Degree Examination taken in:* May/June

*Aims:* The aims of this course are: (1) to equip the student with a basic knowledge of archaeology suitable to a career where the specialism is a subsidiary or 'interest only' requirement, through a broad overview of modern archaeology across a wide chronological and geographical range; and (2) to provide the student with an appreciation of cultural resources, and the importance of issues such as their protection, conservation and appropriate exploration.

*Course Co-ordinator:* Dr Allan Hall

### **100F ARCHAEOLOGY 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* 40 archaeology credits at Level 1, which must include Archaeological Practice, and 60 credits at Level 2 made up of the Archaeology of Europe and the Mediterranean, Field Archaeology in Theory and Practice, and EITHER Interpreting Archaeology (Arts students) OR Analytical Archaeology (Science students); completion of 3 weeks approved fieldwork (which may be acquired by attending the Departmental Field School which runs in the summer vacation each year); attendance at a University IT course.

*Assessment:* Assessed course work and (usually) written examination taken in the same year as the course.

*Degree Examination taken in:* May/June

*Aims:* The aim of the programme is to provide a basic grounding in the theoretical background and method-

logical techniques of modern archaeology, and demonstrate their application across a wide chronological and geographical range.

*Honours Course Prescription:* Students take two core courses - see Archaeology 3H Single for details and a practical work portfolio (20 credits).

*Course Co-ordinator:* Dr Allan Hall

### 100H ARCHAEOLOGY 3H (SINGLE)

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* 40 archaeology credits at Level 1, which must include Archaeological Practice, and 60 credits at Level 2 made up of the Archaeology of Europe and the Mediterranean, Field Archaeology in Theory and Practice, and EITHER Interpreting Archaeology (Arts students) OR Analytical Archaeology (Science students); completion of 3 weeks approved fieldwork (which may be acquired by attending the Departmental Field School which runs in the summer vacation each year); attendance at a University basic IT course.

*Assessment:* Assessed course work and (usually) written examination taken in the same year as the course.

*Degree Examination taken in:* May/June

*Aims:* The aim of the programme is to provide a basic grounding in the theoretical background and methodological techniques of modern archaeology, and demonstrate their application across a wide chronological and geographical range.

*Honours Course Prescription:* Students take 2 core courses - Recovery and Interpretation of Archaeological Data; Theory and Interpretation in Archaeology and 2 other optional taught courses from the list below (not all on offer every year), plus a portfolio of practical work (40 credits). Optional taught courses include: Interpretation and Analysis of Archaeological Ceramics; Examining Archaeological Materials; Geoarchaeology and Palaeoecology; Archaeology and Material Culture; Archaeology of Life and Death; Aspects of the British Neolithic; Ceramic Production; Computer Based Data Management in Archaeology; Computer Based Graphical Analysis in Archaeology; Development of Greek and Roman Coinage; Early Medieval Gaeldom: 6th - 8th centuries; Founding of Scotland; Expansion and Control of the Roman Empire; Landscape Archaeologies past and present; Medieval Ireland (800-1100); Post-Roman Celtic Britain; The Picts and formation of Alba; Production and Trade in the Ancient Mediterranean World; Roman Britain: Acculturation and Change; Rural Settlement, Society and Landscape in Scotland, c1100-c1700 AD; Settlement and Society in Scandinavian Scotland; Settlement and Landscape in Scottish Gaeldom, 1750-1850; Viking Age Scandinavia; Viking Movements; The Archaeology of Religion; Cities and Colonies in the Late Prehistoric Western Mediterranean; Communities and Landscapes in the Neolithic of Northwest Europe; Historical Landscapes of the Eastern Mediterranean; Rural Landscapes and Peasant Communities in Ancient Italy;

*Course Co-ordinator:* Dr Allan Hall

### 100G ARCHAEOLOGY 4H (JOINT)

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Satisfactory performance at level 3H

*Assessment:* Assessed course work and (usually) written examination taken in the same year as the course.

*Degree Examination taken in:* May/June

*Aims:* The aim of the programme is to provide a basic grounding in the theoretical background and methodological techniques of modern archaeology, and demonstrate their application across a wide chronological and geographical range.

*Honours Course Prescription:* Students take 3 optional courses selected from two groups, (see Archaeology 3H for details); a dissertation (20 credits) may be substituted in place of 1 course.

*Course Co-ordinator:* Dr Allan Hall

### 100J ARCHAEOLOGY 4H (SINGLE)

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Satisfactory performance at level 3H

*Assessment:* Assessed course work and (usually) written examination taken in the same year as the course.

*Degree Examination taken in:* May/June

*Aims:* The aim of the programme is to provide a basic grounding in the theoretical background and methodological techniques of modern archaeology, and demonstrate their application across a wide chronological and geographical range.

*Honours Course Prescription:* Students take 4 optional taught courses and a dissertation (40 credits) - see Archaeology 3H for details of taught courses (not all on offer every year).

*Course Co-ordinator:* Dr Allan Hall

## Biomedical and Life Sciences

### KNPU BIOLOGY 1A

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures 9am, 2pm, and 5pm on Monday - Friday (each student is assigned to one lecture slot per day). Laboratories: Tuesday, Wednesday, Thursday and Friday morning and afternoons as required by course numbers (each student only attends one laboratory session per week).

*Requirements of entry:* As for Faculties of Science entry

*Excluded Courses:* Biology 1Y (6KEU)

*Assessment:* A 2-hour examination at the end of the course, which counts as 50%; assessment of coursework,

which counts as 50%. For the resit diet, the examination component is increased to 70% and the coursework component is reduced to 30%.

*Aims:* to provide a broad-based understanding of modern biology at the organismal level; to provide the knowledge appropriate for continuing studies in biology; to encourage the acquisition of general scientific skills and transferable skills; to introduce you to the use of email, the Internet, basic word processing and spreadsheets.

*Course Co-ordinator:* Prof Douglas Neil

## **KNMU BIOLOGY 1B**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: 9 am, 2 pm and 5 pm on Monday - Friday (each student is assigned to one lecture slot per day). Laboratories: Tuesday, Wednesday, Thursday and Friday morning and afternoons as required by course numbers (each student only attends one laboratory session per week).

*Requirements of entry:* As for Faculties of Science entry

*Excluded Courses:* Biology 1X (6KDU)

*Assessment:* A 2-hour degree examination at the end of the course, which counts as 50%; assessment of coursework, which counts as 50%. For the resit examination, the end-of-course examination component is increased to 70% and the coursework component is reduced to 30%.

*Aims:* to provide a broad-based understanding of modern biology at the molecular & cellular level; to provide the knowledge appropriate for continuing studies in biology; to encourage the acquisition of general scientific skills and transferable skills; to introduce you to the use of email, the Internet, basic word processing and spreadsheets.

*Course Co-ordinator:* Prof Michael Blatt

## **KPLU COMMUNICATING SCIENCE 1**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Four lectures / tutorials per week at 1pm on days to be decided. One 3-hr practical session per week at times to be arranged.

*Excluded Courses:* 7NYV Science Communication & Commerce 2 (13B)

*Assessment:* End-of-course examination (50%), group project (20%) and other assignments (30%).

*Aims:* The overall aims of the course are to: survey the social and political context in which scientists operate; show how science is communicated (a) to scientists and (b) to different sectors of the general public; provide students with the skills needed to access different sources of scientific information; enable students to reflect on and improve their skills in written and oral communication of science to different kinds of audiences; provide students with opportunities to reflect on how people develop knowledge and understanding of scientific ideas;

provide students with an understanding of the nature of sciences as an enquiry-led activity.

*Course Co-ordinator:* Prof J Downie

## **5KYV ANIMAL DIVERSITY 2 (4A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures either Wednesday or Friday from 11 am-12 noon; two laboratories; tutorials.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A one-hour objective degree examination at the end of the course which counts as 50% of the final assessment. Assessment of course work which counts as 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: survey the variety of animal life, from protozoa to mammals, with an emphasis on the evolutionary forces that have created this diversity; demonstrate the fundamental unity of animal life, in terms of the mechanisms that organise body plans; illustrate the adaptations of animals to different lifestyles in different habitats; examine the causes of mass extinctions and new waves of adaptive radiation, and to analyse the interactions of human beings with other animals.

*Course Co-ordinator:* Prof Roderic Page

## **1LAP BASIC GENETICS 2 (1A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures are on Mondays and Wednesdays at 9.00 am or 1.00 pm; two laboratories; optional tutorials.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: present the principles of eukaryotic transmission genetics and their applications in genetic analysis; describe the nature of the gene and to show how genes function in development and affect the phenotype of the organism; enable students to appreciate the role of genetics in the study of many fields of biology.

*Course Co-ordinator:* Dr Roger Sutcliffe

## **3YAV BIOLOGICAL CLOCKS 2 (11A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures Tuesday and Thursday at 11.00 am; group project.

*Requirements of entry:* None.

*Assessment:* A 50 minute class test of objective questions in November (40%); a group project (35%); 'take-home' problems (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to appreciate a biological phenomenon across the spectrum of biology from the molecular to the behavioural viewpoint; to encourage students, in addition to learning factual information, to work effectively within in a group and to communicate with clarity; to introduce students to the human relevance and commercial applications of the study of biological rhythms.

*Course Co-ordinator:* Dr Pamela Scott

### 1MFP BIOMETRICS 2 (14B)

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 18 lectures, three 2-hour practicals, two 1-hour practicals and twelve hours of self-directed learning. Lectures on Monday and Tuesday at 5.00 pm.

*Requirements of entry:* None

*Excluded Courses:* Any Level 1 Statistics course

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: introduce basic techniques for the collection and presentation of data; introduce some simple models for data; introduce some basic concepts in statistical inference.

*Course Co-ordinator:* Dr Vincent MacAulay

### JJEV BUILDING AN ORGANISM: CELLS, GENES AND DEVELOPMENT 2 (10A)

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures on Tuesdays and Thursdays at 2pm.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Excluded Courses:* 9b: Reproduction and the Embryo (1LYP) and 12b: Development: Cells, Molecules and Genes (1MCP)

*Assessment:* A 1-hour end of course examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Aims:* The overall aims of the course are to: \* provide a basic understanding of development in animals and plants \* illustrate the cellular and genetic basis of development \*provide an introduction to the concepts of development which prepares students for further studies at the cellular, molecular and organismal levels \* provide practical experience of studying development

*Course Co-ordinator:* Prof Gareth Jenkins

### JFZV CELLS AND TISSUES IN HEALTH AND DISEASE 2 (8B)

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures either Thursday and Friday at 9.00am (Group 1 students) or Thursday and Friday at 12.00pm (Group 2 students)

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Excluded Courses:* 2a: Cells: Structure and Function (1LBP) and 8b: Human Tissues in Health and Disease (1LXP)

*Assessment:* A 1-hour end of course examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Aims:* The overall aims of the course are to: \*describe how cells are studied \*provide knowledge of the basic structure of cells \*introduce students to microanatomical aspects of tissues \*stress the interactions between structural and functional characteristics \*describe the changes resulting from disease processes

*Course Co-ordinator:* Dr Maureen Griffiths

### 3YDV CONSERVATION BIOLOGY 2 (17B)

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures are on Tuesday and Thursday at 11.00am; field and project work. Field work in semester 2.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade. (For students on the Environmental Design degree, normally a grade D in Environmental Science 1).

*Assessment:* A 1-hour degree examination, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Outline the main threats to wild plants, animals and habitats; discuss why conservation is necessary and important; outline the biological bases of conservation practice; illustrate conservation-in-action by means of detailed case studies.

*Course Co-ordinator:* Dr Jan Lindstrom

### **1LWP DRUGS AND DISEASE 2 (7B)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 19 lectures and 1 laboratory. Group 1: Monday and Wednesday at 9.00am; Group 2: Monday and Wednesday at 12.00noon

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour objective-question degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: introduce the principles of pharmacology; describe the effects, mechanisms of action and clinical uses of drugs; outline the processes of drug development.

*Course Co-ordinator:* Dr Stephen Yarwood

### **1LHP ECOLOGY 2 (8A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures on Tuesday and Thursday at 12.00 noon; field work. Field work normally takes place on a Saturday or Sunday in October.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade. (For students on the Environmental Design degree, normally a grade D in Environmental Science 1).

*Assessment:* A 1-hour multiple-choice degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aim of the course is to provide a basic understanding of the interactions which control the distribution and abundance of animals and plants as species, populations and communities.

*Course Co-ordinator:* Dr Kevin Murphy

### **1LTP ENERGY METABOLISM 2 (6B)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures Thursday and Friday at 9.00 am or 12.00 noon; two laboratories plus a post lab and tutorial.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are to: show how a variety of organisms utilise carbohydrate and other compounds to carry on their life processes; describe and understand the crucial role of membranes and the hydrogen ion gradient in the generation of energy rich compounds; present the biochemical pathways which are involved in building up and breaking down macromolecules involved in living processes (metabolism); describe how energy is captured and used by a variety of organisms, with some emphasis on control of metabolism during exercise.

*Course Co-ordinator:* Dr D Leader

### **1LMP EVOLUTIONARY BIOLOGY 2 (2B)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures are Wednesday and Thursday at 5.00 pm; two laboratories and optional tutorials

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade. Also, students must normally have completed the Basic Genetics course.

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: show how current studies of genetic variation and taxonomy can be integrated to provide new insights into evolution, population biology and biodiversity; introduce the methods used in reconstructing evolutionary trees, and discuss the role of phylogenies in understanding evolutionary processes; describe and interpret macroevolutionary processes.

*Course Co-ordinator:* Dr Mark Bailey

### **ODRV EXERCISE SCIENCE 2 (18B)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures at 11am Monday and 9am Tuesday; 2 practicals

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June



*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: \*expand the students' understanding of physiology in active humans \*expand the students' understanding of physical activity, well being and health \*allow students to study science in the context of sports performance

*Course Co-ordinator:* Dr Jason Gill

## **0XWV EXTREME BIOLOGY 2 (15B)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesdays 12-13 and Wednesday 10-11

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To create an understanding of how key biological processes can be modulated to function in extreme conditions and where the limits are; to offer a fully integrated view of biology; to provide the chance for independent investigation.

*Course Co-ordinator:* Dr Anna Amtmann

## **JGHV FORENSIC BIOSCIENCE 2 (2A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures Monday and Wednesday at 1pm.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour end of course examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: \* To provide students with an insight to the science which forms the basis of Forensic Bioscience. \* To demonstrate the importance of Forensic Bioscience in the provision of evidence relating to a crime or identity of individuals.

*Course Co-ordinator:* Mrs Angela Watt

## **1LGP HUMAN FORM AND FUNCTION 2 (7A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures either Tuesday and Thursday at 9.00am (Group 1 students) or Tuesday and Thursday at 1.00pm (Group 2 students); three practicals.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour multiple-choice examination at the end of the course which counts as 50% of the final assessment. Assessment of course work: which counts as 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: introduce students primarily to gross topographical aspects of the human body stressing the interactions between structural and functional characteristics; to provide knowledge of those features of the basic body plan which have been uniquely adapted in humans including prehension, the erect gait and aspects of human speech; to provide an introduction to human form and function which prepares students for further study of Human Anatomy.

*Course Co-ordinator:* Prof Robert Smith

## **JGWV HUMAN PHYSIOLOGY 2 (3A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures either Tuesday and Thursday at 9.00am (Group 1 students) or Tuesday and Thursday at 1.00pm (Group 2 students); one practical

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Excluded Courses:* 3a: Physiological Systems I (1LCP) and 4b: Physiological Systems II (1LPP)

*Assessment:* A 1-hour end of course examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Aims:* The overall aims of the course are to provide an introduction to integrative physiology using examples from the cardio-respiratory, gastrointestinal and endocrine systems.

*Course Co-ordinator:* Dr Michael Lucas

## **7NWX IMMUNOLOGY 2 (13A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Two 1-hour Lectures per week (repeated if required). One class test (in a lecture slot).

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* Class Test 25%, Essay 25%, Degree Exam 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* 1. To introduce students to the immune system, how it distinguishes self from non-self and responds appropriately. 2. To promote an appreciation of the consequences of perturbations in immune function in the context of infectious disease, autoimmunity, allergy and transplantation. 3. To explain the importance of the immune system and how it can be usefully manipulated e.g. immunotherapy or vaccination.

*Course Co-ordinator:* Dr J Gracie

### **1LNP INFECTION AND IMMUNITY 2 (3B)**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures either Monday and Wednesday at 1.00pm (Group 1 students) or Monday and Wednesday at 4.00pm (Group 2 students).

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour (objective questions) degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To consider selected examples of bacterial, parasite, viral and fungal pathogens, and prions, in order to develop an understanding of: \*how these agents infect their hosts; \*how they evade or subvert the innate and acquired defences of the host immune system; \*how they cause disease; \*how they can be controlled; \*how the immune system can be manipulated by vaccines, where appropriate, to establish immunity in advance of infection.

*Course Co-ordinator:* Dr Roger Parton

### **1LJP MICROORGANISMS 2 (9A)**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures Wednesday and Friday at 12.00 noon; one tutorial

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour multiple-choice degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: highlight the unique aspects of microorganisms and their diversity; provide an introduction to the beneficial and detrimental activities of microorganisms; provide a broad-based introduction to microbiology which prepares students for further studies in the subject.

*Course Co-ordinator:* Dr John Coote

### **1LLP MOLECULAR GENETICS 2 (1B)**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures Thursday and Friday at 1.00 pm; two practicals and optional tutorials

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: develop the theme of the molecular nature of the gene and its application in the study of microbial genetics; describe the nature of eukaryotic genome organisation and the role of genes in development; demonstrate the principles of recombinant DNA technology, and its use in medical genetic research.

*Course Co-ordinator:* Dr Kevin O'Dell

### **JGZV NEUROSCIENCE AND BEHAVIOUR 2 (10B)**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures either Monday & Wednesday at 9am (Group 1 students) or Monday & Wednesday at 12noon (Group 2 students); two practicals.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Excluded Courses:* 10a: Neuroscience and Behaviour (0ZXV) and 10a: Neuroscience (1LKP)

*Assessment:* A 1-hour objective-question degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aims of this course are to: provide an introduction to the structure and function of nerve cells and how they communicate with one another; show how neurones in different parts of the nervous system are arranged and connected and how they interact; show how simple nervous systems generate behaviour; show how nervous systems have evolved greater complexity of structure and function; show how complex behaviour develops and how behaviour contributes to Darwinian fitness.

*Course Co-ordinator:* Prof Felicity Huntingford

**1LFP NUCLEIC ACIDS: STRUCTURE AND FUNCTION 2 (6A)***Credits:* 10*Level:* 2*When Taught:* Semester 1 (September - January)*Timetable:* Lectures either Monday at 12.00noon and Friday at 9.00am (Group 1 students) or Monday at 5.00pm and Friday at 1.00pm (Group 2 students); two laboratories, a post-lab session and tutorial.*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.*Assessment:* A 1-hour objective examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work: which counts as 50%.*Degree Examination taken in:* January*Resit Examination taken in:* August/September*Aims:* The overall aims of the course are to: provide an introduction to the structure and function of nucleic acids; prepare students for further studies in biochemistry, genetics and molecular biology; provide practical experience of modern methods for the analysis of DNA.*Course Co-ordinator:* Mrs Angela Watt**2KXP PHYSICAL PRINCIPLES OF BIOLOGICAL PROCESSES 2 (16B)***Credits:* 10*Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* 20 lectures, five x 1-hour practicals. Lectures: Thursday and Friday at 1.00 pm.*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.*Assessment:* A 1-hour degree examination at the end of the course, which counts for 50% of the final assessment. Assessment of course work, which counts as 50%.*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* The overall aims of the course are: to show that different static positions of the body, and the stances of animals, are subject to forces which require specific muscular action; to demonstrate that the different sizes of living organisms subject the tissues to different stresses and strains, and that there are important consequences for the forms and the movements of animals and plants depending on whether they are large or small; to discuss the different types of motion exhibited by animals on land, in water and in the air; to be familiar with elementary thermodynamic concepts relating to free energy and energy transformation processes; to understand the importance of diffusion and the implications for organisms of the much higher diffusion rates of gases in air than in water; to recognise that different mechanisms exist for the transfer of heat and understand how animals control their body temperature in air and water.*Course Co-ordinator:* Dr Richard St Denis**4HFV PLANT SCIENCE: FOOD AND FAMINE 2 (5B)***Credits:* 10*Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Lectures Monday and Thursday at 10.00 am; one laboratory and one tutorial*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.*Assessment:* A 1-hour degree examination at the end of the course which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* The overall aims of the course are to: show how the growth and development of plants are regulated by their environment; describe the role of internal regulators and differential gene expression in these control processes; show how food production from plants is affected by biotic and abiotic stress factors; discuss the role of plant breeding and genetic engineering in maintaining and improving food production in a changing global environment.*Course Co-ordinator:* Dr Peter Dominy**5LAV PLANTS, POLLUTION AND GLOBAL CHANGE 2 (12A)***Credits:* 10*Level:* 2*When Taught:* Semester 1 (September - January)*Timetable:* Lectures are on Tuesday 10.00am and Thursday 10.00am, weeks 1-8. Tutorials: Weeks 7-12, to be arranged.*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade. (For students on the Environmental Design degree, normally a grade D in Environmental Science 1).*Assessment:* A one-hour degree examination at the end of the course (50%); Coursework assessment: (50%)*Degree Examination taken in:* January*Resit Examination taken in:* August/September*Aims:* The overall aims of the course are to: understand the complex interactions between plants and animals, principally humans, at different levels of ecological organisation; understand the impacts of global-scale changes (eg. global warming, pollution, eutrophication) on plant animal interactions.*Course Co-ordinator:* Dr Peter Dominy**7NXV PRACTICAL MICROBIOLOGY 2 (11B)***Credits:* 10*Level:* 2*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures are on Fridays at 10.00 am. Laboratories are Wednesday or Thursday or Friday afternoons

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour objective question degree examination at the end of the course, which counts as 50% of the final assessment. Contributions from course work, summing to 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to: provide a broad-based introduction to practical and applied aspects of microbiology; highlight the industrial and economic impact of microbiology.

*Course Co-ordinator:* Dr Robert Aitken

## **1LEP PROTEINS: STRUCTURE AND FUNCTION 2 (5A)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures either Monday at 12.00noon and Friday at 9.00am (Group 1 students) or Monday at 5.00pm and Friday at 1.00pm (Group 2 students); two laboratories plus one post lab session and a tutorial.

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour degree examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aims of the course are to present an introductory account of: \*the structure of proteins, showing how structure is determined experimentally, how it emerges from chemical composition, how it influences function, and how an understanding of structure underlies methods used to separate proteins; \*the assay, the kinetic properties, the specificity and the basis of the catalytic power of enzymes; \*to describe how enzymes are regulated, the effect of inhibitors and the role of coenzymes and prosthetic groups in enzyme catalysed reactions; \*to illustrate medical and biotechnological aspects of enzymes; \*receptors and receptor signalling, showing how ligand binding can induce conformational and functional changes in the receptor molecule.

*Course Co-ordinator:* Dr Maureen Griffiths

## **JHQP REPRODUCTION AND DEVELOPMENT 2 (9B)**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures on Wednesday and Friday at 11 am

*Requirements of entry:* Normally, an overall average of grade D (grade-point average of 10) in the Level-1 Biology courses and EITHER Chemistry-1 OR Science Fundamentals-1X and -1Y at D grade.

*Assessment:* A 1-hour end of course examination at the end of the course, which counts as 50% of the final assessment. Assessment of course work, which counts as 50%.

*Aims:* The overall aims of the course are to: \* introduce students to the physiology, anatomy, biochemistry and ecology of reproduction \* provide an understanding of the development of animals \* provide an understanding of the vertebrate embryo and the control of its development

*Course Co-ordinator:* Dr Sarah MacKay

## **500H ANATOMY 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratory work, tutorials and seminars.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%); classwork (40%). Oral at discretion of external examiner.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad-based knowledge and understanding of Anatomy which is appropriate for the further study of Anatomy at the final year Honours level or for employment as a BSc Ordinary graduate in a wide range of employment; to provide you with basic practical skills and an introduction to laboratory techniques in Anatomy; to develop skills relating to the systematic acquisition of factual information and data; to develop your ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to introduce you to the use of computers in Anatomy.

*Honours Course Prescription:* Integrated Human; CNS; Molecular Biological Techniques; Mammalian Development; Head & Neck; Upper Limb; Cell Biology; Statistics.

*Course Co-ordinator:* Prof Anthony Payne

## **JGAW ANIMAL BIOLOGY (MARINE & FRESHWATER BIOLOGY) 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratory work, seminars, tutorials and field work as organised.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Animal Diversity 2; and Ecology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Excluded Courses:* Animal Biology (Aquatic Bioscience) 3 (JGAW)

*Assessment:* Coursework (one third of the total), Degree Examination (two thirds of the total).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* \* To provide you with a broad-based knowledge and understanding of Marine & Freshwater Biology / Animal Biology which is appropriate for the further study of Marine & Freshwater Biology at the final year Honours level or for employment as a B.Sc. Designated Degree graduate in a wide range of employment \* To provide you with experience of practical and field aspects of Marine & Freshwater Biology / Animal Biology \* To develop skills relating to the systematic acquisition of factual information and data \* To develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data \* To provide you with opportunities to practise and improve written and oral communication skills \* To introduce you to the use of computers in Marine & Freshwater Biology / Animal Biology

*Course Co-ordinator:* Dr Isabel Coombs

### **8SHFW ANIMAL BIOLOGY (ZOOLOGY) 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Animal Diversity 2; and Ecology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Zoology-3H (509H)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* As for related 3H course: Zoology-3H (509H)

*Course Co-ordinator:* Dr Isabel Coombs

### **502H BIOCHEMISTRY 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures every day and 2 days laboratory per week.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Proteins Structure & Function 2; Nucleic Acids

Structure & Function 2; and Energy Metabolism 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Degree examination (60%) and coursework assessment (40%). This mark is also carried forward as 15% of the final degree mark for Senior Honours students.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with the basic knowledge and skills that are required for a career as a professional biochemist; to foster those general qualities and skills that can be applied equally to, and are important for, careers outside biochemistry.

*Honours Course Prescription:* Proteins and Enzymes; Metabolic Regulation; Membranes and Cell signalling; Gene Structure and Expression; Biochemistry of Mammalian Systems (eg immune, endocrine, neural) in Health and Disease.

*Course Co-ordinator:* Prof Nicholas Price

### **JGFH BIOMEDICAL SCIENCES 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures every day and 2 days of laboratories per week.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Proteins Structure & Function 2; Nucleic Acids Structure & Function 2; and Energy Metabolism 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Excluded Courses:* Biomedical Sciences (Infection Biology) 3H (0HHD); Biomedical Sciences (Medical Biochemistry) 3H (0HEH) and Biomedical Sciences (Human Biology) 3H (0HFH)

*Assessment:* Two 3-hour degree exam (60%), Coursework assessment (40%).

*Aims:* \* To provide students with the basic knowledge and skills that are required for a career as a professional biomedical scientist. \* To foster those general qualities and skills that can be applied equally to careers outside biomedical sciences.

*Honours Course Prescription:* Molecular Genetics, Genomics, Proteins and Enzymes, Forensic Toxicology, Membranes, DNA Structure and Repair, Gene Expression, Cell Cycle, Signalling and Cancer, Biochemistry of Mammalian Systems (e.g. immune, muscle, endocrine, neural), Metabolism in Health and Disease, Drug Discovery and Development, Biomedical Physics in Diagnosis and Therapy.

*Course Co-ordinator:* Prof Nicholas Price

### **8GLW BIOMOLECULAR SCIENCES (BIOCHEMISTRY) 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Proteins Structure & Function 2; Nucleic Acids Structure & Function 2; and Energy Metabolism 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Biochemistry-3H (502H)

*Aims:* As for related 3H course: Biochemistry-3H (502H)

*Course Co-ordinator:* Prof Nicholas Price

### **8GMW BIOMOLECULAR SCIENCES (BIOTECHNOLOGY) 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Basic Genetics 2; Proteins Structure and Function 2; Nucleic Acids Structure and Function 2; and Molecular Genetics 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Biotechnology (2KTH)

*Aims:* As for related 3H course: Biotechnology (2KTH)

*Course Co-ordinator:* Dr Russell Thompson

### **8KXW BIOMOLECULAR SCIENCES (GENETICS) 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Basic Genetics 2; Proteins Structure & Function 2, Nucleic Acids Structure & Function 2; Molecular Genetics 2; and Evolutionary Biology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Genetics (505H)

*Aims:* As for related 3H course: Genetics (505H)

*Course Co-ordinator:* Dr Kevin O'Dell

### **8GNW BIOMOLECULAR SCIENCES (MOLECULAR & CELLULAR BIOLOGY) 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Basic Genetics 2; Proteins Structure & Function 2; Nucleic Acids Structure & Function 2; and Molecular Genetics 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Molecular & Cellular Biology (4YPH)

*Aims:* As for related 3H course: Molecular & Cellular Biology (4YPH)

*Course Co-ordinator:* Dr Russell Thompson

### **8GPW BIOMOLECULAR SCIENCES (PLANT SCIENCE) 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Assessment:* As for related 3H course: Plant Science (6E1H)

*Degree Examination taken in:* May/June

*Aims:* As for related 3H course: Plant Science (6E1H)

*Course Co-ordinator:* Dr Peter Dominy

### **2KTH BIOTECHNOLOGY 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories, tutorials, problem based learning and reading party

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Basic Genetics 2; Proteins Structure and Function 2; Nucleic Acids Structure and Function 2; and Molecular Genetics 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Coursework assessment (30%) and two 3-hour end-of-course examinations (70%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To provide you with the means of acquiring broad-based knowledge and unified understanding of biology, from genomics via gene expression and macromolecular structure, to cells, tissues and organisms; (2) To help you develop basic laboratory skills and provide you with experience of major techniques (such as those of DNA manipulation, cell culture and bioinformatics) used in molecular and cellular biology; (3) To give you practice in problem-solving, in use of important communication skills, such as written and verbal presentation of information, and in collaboration in groups; (4) To develop your appreciation of the importance of the concepts, data and techniques of contemporary biology to the future well-being of mankind, and of the ethical issues which these raise; (5) To prepare you for advanced

study of specialised biological topics and conduct of a research project, in final Honours year, or for one of many forms of employment as a BSc designated degree graduate.

*Honours Course Prescription:* Molecular Genetic Methods; Genomics; Membranes, Filaments & Motors; Proteins and Enzymes; DNA Isolation, Structure, Recombination, Replication and Repair; Mobile DNA; Gene Expression; Plant Molecular Biology; Cell Signalling, Cell Cycle and Cancer, Cell Engineering; The Immune System; Ions and Excitable Membranes; Animal Virology; Experimental Strategies

*Course Co-ordinator:* Dr Russell Thompson

### 3YCH COMPUTING SCIENCE AND PHYSIOLOGY 3H (NEUROINFORMATICS)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Organised jointly between the Institute of Biomedical and Life Sciences and Computing Science

*Requirements of entry:* Computing Science-1P; Computing Science-1Q; Human Physiology 2; Human Form & Function 2; Neuroscience & Behaviour 2; Biometrics. At least 40 credits at Grade C from Computing Science Level-2 courses including Computing Science-2X and Computing Science-2Y. Mathematics-1R or -1X and Mathematics-1S or -1T or -1Y are strongly recommended and are prerequisites for some Level-4 Computing Science modules. At least D grades are normally required in all prerequisite subjects (except where specified), while B grades in all prerequisites subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Depending on the courses chosen by each individual student the weighting can vary.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* During the degree programme, you will acquire: a deep understanding of the core areas of Computing Science, and the Mathematics which underpin information processing; an understanding of the ways in which information is processed by the central nervous system; the ability to draw on your understanding of information processing to gain insight into the computational properties of real neurones and networks made up of neurones; an understanding of the possible application of biological principles to computing.

*Honours Course Prescription:* Integrated Human, Neurophysiology of CNS, Endocrinology, 5 Computing Science 3H courses including Advanced Programming 3 and Professional Software Development 3

*Course Co-ordinator:* Dr James Morrison

### 4NWW ESSENTIAL MOLECULAR BIOLOGY 3

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Most lectures will be at 9.00 am (occasionally at other times on Fridays). Laboratories will be between 10.00 am and 5.00 pm on certain days to suit other courses.

*Requirements of entry:* Six IBLS Level-2 courses with at least grade C on two of them and at least grade D in the remaining four. IBLS courses 5a Proteins and 6b Energy Metabolism are essential and the remaining four should be from: 1a Basic Genetics, 2a Cells, 3a Physiological Systems I, 4a Animal Diversity, 6a Nucleic Acids, 9a Microorganisms, 12a Plants, Pollution & Global Change, 2b Evolutionary Biology, 3b Infection & Immunity, 5b Plant Science, 7b Drugs & Disease, 8b Human Tissues in Health & Disease, 9b Reproduction and the Embryo, 11b Practical Microbiology, 13b Science Communication and 17b Conservation Biology

*Excluded Courses:* Biochemistry 3H, Medical Biochemistry 3H

*Assessment:* Two one and a half hour papers (60%) and coursework assessment (40%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide courses in (1) proteins, enzymes and cell signalling; (2) molecular biology techniques; (3) intermediary metabolism and (4) immunology and endocrinology.

*Course Co-ordinator:* Prof Nicholas Price

### 505H GENETICS 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories, tutorials and student-directed learning.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Basic Genetics 2; Proteins Structure & Function 2, Nucleic Acids Structure & Function 2; Molecular Genetics 2; and Evolutionary Biology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two end-of-course examination papers (70%) and course work assessment (30%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Appreciation of the continuity of classical and molecular genetics: the classical foundations of molecular genetics and the application of both to understanding of populations and evolution; appreciation of the broad application of genetics within modern biology, biotechnology and medicine; understanding that research involves serious thought and reliable experimentation, and that scientific knowledge can be hard won; a sense of the excitement of a rapidly advancing field of study; successful completion of an important step on the road to a rewarding career.

*Honours Course Prescription:* Molecular Genetic Methods; Genomics; Membranes, Filaments & Motors; Proteins and Enzymes; DNA Isolation, Structure, Recombination, Replication and Repair; Mobile DNA; Gene Expression; Plant Molecular Biology; Cell Signalling, Cell Cycle and Cancer, Cell Engineering; The Immune System; Ions and Excitable Membranes; Animal Virology; Experimental Strategies

ination, Replication and Repair; Mobile DNA; Gene Expression; Plant Molecular Biology; Cell Signalling, Cell Cycle and Cancer, Cell Engineering; The Immune System; Ions and Excitable Membranes; Animal Virology; Evolutionary Genetics; Experimental Strategies.

*Course Co-ordinator:* Dr Kevin O'Dell

### **8GTW HUMAN BIOLOGY (ANATOMY) 3**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Anatomy (500H)

*Aims:* As for related 3H course: Anatomy (500H)

*Course Co-ordinator:* Prof Anthony Payne

### **8GYW HUMAN BIOLOGY (NEUROSCIENCE) 3**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Neuroscience (4C1H)

*Aims:* As for related 3H course: Neuroscience (4C1H)

*Course Co-ordinator:* Dr John Riddell

### **8HAW HUMAN BIOLOGY (PHARMACOLOGY) 3**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Pharmacology (408H)

*Aims:* As for related 3H course: Pharmacology (408H)

*Course Co-ordinator:* Dr Dorothy Aidulis

### **8HBW HUMAN BIOLOGY (PHYSIOLOGY) 3**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%); coursework assessments (40%). Oral examination at discretion of external examiner.

*Aims:* As for related 3H course: Physiology-3H (507F)

*Course Co-ordinator:* Dr Michael Lucas

### **4YTW INFECTION BIOLOGY 3**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* As for related 3H course: Microbiology (511H) or Parasitology (517H) or Virology (821H)

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Infection & Immunity 2; Microorganisms 2; and Practical Microbiology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* As for related 3H course: Microbiology (511H) or Parasitology (517H) or Virology (821H)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* As for related 3H course: Microbiology (511H) or Parasitology (517H) or Virology (821H)

*Course Co-ordinator:* Dr Mary Tatner

### **JFRH MARINE & FRESHWATER BIOLOGY 3H**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratory work, seminars, tutorials and field work as organised.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Animal Diversity 2; and Ecology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Excluded Courses:* Aquatic Bioscience AOS (1B3A) and Aquatic Bioscience 3H (1B3H)



*Assessment:* Coursework (one third of the total), Degree Examination (two thirds of the total).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad-based knowledge and understanding of Marine & Freshwater Biology / Animal Biology which is appropriate for the further study of Marine & Freshwater Biology at the final year Honours level or for employment as a B.Sc. Designated Degree graduate in a wide range of employment; To provide you with experience of practical and field aspects of Marine & Freshwater Biology / Animal Biology; To develop skills relating to the systematic acquisition of factual information and data; To develop your ability to solve problems and to critically analyse, interpret and discuss factual information and data; To provide you with opportunities to practise and improve written and oral communication skills; To introduce you to the use of computers in Marine & Freshwater Biology / Animal Biology

*Honours Course Prescription:* Freshwater Field Course, Bioethics, Aquatic Microbiology, Invertebrates, Experimental Design and Analysis, Understanding your data, Molecular Ecology, Vertebrates, Animal Physiology, Marine & Freshwater Ecosystems (including field course at Millport), Aquatic Pollution

*Course Co-ordinator:* Dr Isabel Coombs

#### 4P7H MEDICAL BIOCHEMISTRY 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures every day and 2 days laboratories per week.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Proteins Structure and Function 2; Nucleic Acids Structure and Function 2; and Energy Metabolism 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Degree examination (60%) and the course work assessment (40%). The mark is also carried forward as 15% of the final degree mark for Senior Honours students.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with the basic knowledge and skills that are required for a career as a professional biochemist, especially in areas relevant to medicine; to foster those general qualities and skills that can be applied equally to, and are important for, careers outside biochemistry.

*Honours Course Prescription:* Proteins and Enzymes; Metabolic Regulation; Membranes and Cell Signalling; Gene Structure and Expression; Biochemistry of Mammalian Systems (eg immune, endocrine, neural) in Health and Disease.

*Course Co-ordinator:* Prof Nicholas Price

#### 511H MICROBIOLOGY 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories, tutorials, problem-based learning, and 3-day field trip.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Infection & Immunity 2; Microorganisms 2; and Practical Microbiology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Degree examinations (66%) and course work assessment (34%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad-based knowledge and understanding of Microbiology which is appropriate for the further study of Microbiology at the final year Honours level or for employment as a BSc Designated Degree graduate in a wide range of employments; to provide you with the basic practical skills and an introduction to laboratory techniques in Microbiology; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to introduce you to the use of computers in Microbiology.

*Honours Course Prescription:* Introduction to Pathogens; Colonisation, Entry and Spread; Adaptation to the Host; The Host strikes back - Innate, Immediate and Acquired Immunity; Pathogen Evasion Strategies; Diagnosis and Control of Infectious Disease; Molecular Methods

*Course Co-ordinator:* Dr Mary Tatner

#### 4YPH MOLECULAR & CELLULAR BIOLOGY 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories, tutorials, problem-based learning and reading party.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Basic Genetics 2; Proteins Structure & Function 2; Nucleic Acids Structure & Function 2; and Molecular Genetics 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Coursework assessment (30%) and two 3-hour end-of-course examinations (70%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To provide you with the means of acquiring broad-based knowledge and unified understanding of biology, from genomics via gene expression and macromolecular structure, to cells, tissues and organisms; (2) To help you develop basic laboratory skills and provide you with experience of major techniques (such as those of DNA manipulation, cell culture and bioinformatics) used in molecular and cellular biology; (3) To give you practice in problem-solving, in use of important communication skills, such as written and verbal presentation of information, and in collaboration in groups; (4) To develop your appreciation of the importance of the concepts, data and techniques of contemporary biology to the future well-being of mankind, and of the ethical issues which these raise; (5) To prepare you for advanced study of specialised biological topics and conduct of a research project, in final Honours year, or for one of many forms of employment as a BSc designated degree graduate.

*Honours Course Prescription:* Molecular Genetic Methods; Genomics; Membranes, Filaments & Motors; Proteins and Enzymes; DNA Isolation, Structure, Recombination, Replication and Repair; Mobile DNA; Gene Expression; Plant Molecular Biology; Cell Signalling, Cell Cycle and Cancer, Cell Engineering; The Immune System; Ions and Excitable Membranes; Animal Virology; Experimental Strategies

*Course Co-ordinator:* Dr Russell Thompson

#### 4C1H NEUROSCIENCE 3H

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratory classes and tutorials.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%); classwork (40%). Oral at discretion of external examiner.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To stimulate and foster a sense of excitement in Neuroscience and the challenge of seeking to understand the human brain; to provide a broad-based understanding of Neuroscience and knowledge appropriate for the study of Neuroscience at the final year Honours level; to encourage the development of scientific skills relating to the systematic acquisition of factual information and data, and the critical analysis, interpretation and discussion of this material; to provide students with basic practical skills and experience of laboratory techniques in neuroanatomy, neurophysiology and in cellular and molecular biology.

*Honours Course Prescription:* Integrated Human; CNS; Molecular Biological Techniques; Mammalian Develop-

ment; Statistics; Autonomic Pharmacology; Head & Neck; Saccadic eye movements laboratory; Excitable Membranes; CNS Pharmacology; Neuroanatomy laboratory; Experimental Techniques in Neuroscience

*Course Co-ordinator:* Dr John Riddell

#### 517H PARASITOLOGY 3H

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories, tutorials, problem-based learning, and 3-day field trip.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Infection & Immunity 2; Microorganisms 2; and Practical Microbiology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two degree examinations (66%) and coursework assessment (34%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad-based knowledge and understanding of Parasitology which is appropriate for the further study of Parasitology at the final year Honours level or for employment as a BSc Designated degree graduate in a wide range of employment; to provide you with the basic practical skills and an introduction to laboratory techniques in Parasitology; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data, to provide you with opportunities to practise and improve written and oral communication skills; to introduce you to the use of computers in Parasitology.

*Honours Course Prescription:* Introduction to Pathogens; Colonisation, Entry and Spread; Adaptation to the Host; The Host Strikes Back - Innate, Immediate and Acquired Immunity; Pathogen Evasion Strategies; Diagnosis and Control of Infectious Disease; Molecular Methods.

*Course Co-ordinator:* Dr Mary Tatner

#### 408H PHARMACOLOGY 3H

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories and tutorials.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%); classwork (40%). Oral at discretion of external examiner.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* \*To provide you with a broad-based knowledge and understanding of the subject which is appropriate for further study at the final year Honours level, or for employment as a BSc. Designated degree graduate in a wide range of employment \*To provide you with the basic practical skills and an introduction to laboratory techniques \*To develop skills relating to the systematic acquisition of factual information and data \*To develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data \*To provide you with opportunities to practise and improve written and oral communication skills \*To introduce you to the use of computers in Biological Sciences \*To develop an appreciation of the ethics of Science

*Honours Course Prescription:* Integrated Human; CNS; Molecular Methods; Immune & Endocrine Systems; Chemotherapy; Statistics.

*Course Co-ordinator:* Dr Dorothy Aidulis

#### **427H PHYSIOLOGY & SPORTS SCIENCE 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories and tutorials throughout the week.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2 and Neuroscience and Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%); classwork (40%). Oral at discretion of external examiner.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad-based knowledge and understanding of Physiology and Sports Science which is appropriate for the further study of Physiology and Sports Science, Sports Medicine or Sports Science and Nutrition at the final year Honours level or for employment as a BSc Ordinary graduate in a wide range of employment; to provide you with the basic skills and an introduction to laboratory techniques in Physiology and Sports Science; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to extend your computer skills.

*Honours Course Prescription:* Respiration; CVS in the Exercising Human; Muscle, Tendons & Ligaments; Nutritional Metabolism in Relation to Health and Exercise Performance; Statistics; Practical Physiological Assessment; Reflexes, Reaction Times & Motor Units; Ethics & Contemporary Issues in Sports & Exercise; Fundamentals of Sport and Exercise Psychology; Biomechanics; Data Management; Molecular Biological Techniques.

*Course Co-ordinator:* Dr Barbara Cogdell

#### **507H PHYSIOLOGY 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories and tutorials.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%); coursework assessments (40%). Oral examination at discretion of external examiner.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The Level-3 year is based on a series of 5-week course units, with lectures, practical work including the analysis and discussion of results, tutorials and problem solving sessions. The emphasis is on mammalian physiology covering topics from the properties of single cells at the molecular level, to the behaviour of the whole mammalian body. In this context the aim of the Level 3 course is to provide a broad general knowledge of the behaviour of physiological systems.

*Honours Course Prescription:* Integrated Human; CNS; Molecular Biological Techniques; Immune & Endocrine System; Contractile Mechanisms, Integrated Systems Physiology, Excitable Membranes; Statistics.

*Course Co-ordinator:* Dr Michael Lucas

#### **507F PHYSIOLOGY 3H (COMBINED)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Timetable is organised by the Department of Psychology and the Institute of Biomedical and Life Sciences. Lectures in Psychology daily at 1.00 pm.

*Requirements of entry:* For the Physiology component: Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2; Drugs & Disease 2 and Neuroscience & Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%) and coursework assessments (40%) for the Physiology component, which comprises 50% of the overall assessment of the year. Oral at discretion of external examiner.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Physiology and Psychology are a natural combination of subjects for students interested in the relation between physiological processes and behaviour. There is a long history of the importance of understanding various aspects of behaviour. For example, William James' famous Principles of Psychology first published in 1890 covers in great detail the known physiology of the brain, and incorporates this into discussions of emotions, the production of movement, will, and many other topics. Physiological Psychology and Neuropsychology are now well established independent disciplines. The combined honours degree in Physiology and Psychology allows the students to study in depth selected areas of physiology and psychology. The physiology component of the programme covers homeostatic mechanisms - the control and regulation of the internal processes of the body and neurophysiology, including information processing in the nervous system.

*Honours Course Prescription:* Selected parts of Physiology (for the Physiology component): Integrated Human; CNS; Immune & Endocrine Systems.

*Course Co-ordinator:* Dr Michael Lucas

### 6E1H PLANT SCIENCE 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories, tutorials, field work and reading party.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Plant Science Food & Famine 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two papers (70%), coursework assessment (30%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* \* to provide you with a broad-based knowledge and understanding of Plant Science which is appropriate for the further study of Plant Science at the final year Honours level or for employment as a BSc Designated Degree graduate in a wide range of employments; \* to provide you with the basic practical skills and an introduction to laboratory techniques in Plant Science; \* to develop skills relating to the systematic acquisition of factual information and data; \* to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; \* to provide you with opportunities to practise and improve written and oral communication skills; \* to introduce you to the use of computers in Plant Science.

*Honours Course Prescription:* Genomics; Molecular Genetic Methods; Proteins and Enzymes; Membranes; DNA Isolation, Structure and Replication; Microbial Genetics; Gene Expression; Plant Molecular Biology; Development and Pattern Formation; Membrane Transport Mechanisms in Plants; Photosynthesis; Plant Ecology

*Course Co-ordinator:* Dr Peter Dominy

### 6GAW SPORTS SCIENCE 3E

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories and tutorials.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Human Physiology 2; Human Form & Function 2 and Neuroscience and Behaviour 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Two 3-hour degree examinations (60%); classwork (40%). Oral at discretion of external examiner.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide the student with knowledge and understanding of the methods and ethos of Science, particularly sport and exercise science and awareness of its place in human affairs. To provide the student with a broad-based knowledge and understanding of sport and exercise science which is appropriate for employment as a graduate in a wide range of employment. To provide the student with the basic practical skills and an introduction to laboratory techniques in the assessment of human performance. To develop skills relating to the systematic acquisition of factual information and data, in relation to human performance and related areas of science. To develop the ability to solve problems and to critically analyse, interpret and discuss factual information and data. To provide opportunities to practice and improve interpersonal skills and the arts of written and oral communication. To introduce students to the use of computers in sport and exercise science.

*Course Co-ordinator:* Dr Ronald Baxendale

### 821H VIROLOGY 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, laboratories, tutorials, problem-based learning, and 3-day field trip.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Infection & Immunity 2; Microorganisms 2; and Practical Microbiology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Degree examinations (66%) and course-work assessment (34%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad-based knowledge and understanding of Virology which is appropriate for the further study of Virology at the final year Honours level or for employment as a BSc Designated degree graduate in a wide range of employment; to provide you with the basic practical skills and an introduction to laboratory techniques in Virology; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to introduce you to the use of computers in Virology.

*Honours Course Prescription:* Introduction to Pathogens; Colonisation, Entry and Spread; Adaptation to the Host; The Host strikes back - Innate, Immediate and Acquired Immunity; Pathogen Evasion Strategies; Diagnosis and Control of Infectious Disease; Molecular Methods

*Course Co-ordinator:* Dr Mary Tatner

### 509H ZOOLOGY 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, self-teaching units, laboratory practical exercises, field courses, discussions and tutorials.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Animal Diversity 2; and Ecology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Coursework (one third of the total), Degree Examination (two thirds of the total).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad-based knowledge and understanding of Zoology which is appropriate for the further study of Zoology at the final year Honours level or for employment as a B.Sc. Ordinary graduate in a wide range of employments; to provide you with the basic practical skills and an introduction to laboratory and field techniques in Zoology; to develop skills relating to the systematic acquisition of factual information and data; to develop your ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to introduce you to the use of computers in Zoology.

*Honours Course Prescription:* Ecology Field Course; Bioethics; Experimental Design and Analysis; Understanding Your Data; Invertebrate Biology; Vertebrate

Biology; Animal Physiology; Parasite Biology; Reproductive Biology; Marine Biology Field Course; Molecular Ecology; Insect Biology.

*Course Co-ordinator:* Dr Isabel Coombs

### 0XYF ZOOLOGY 3H (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* As for Zoology-3H (509H): Lectures, self-teaching units, laboratory practical exercises, field courses, discussions and tutorials.

*Requirements of entry:* As for Zoology-3H (509H). Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Basic Genetics 2; Animal Diversity 2; Ecology 2; and Evolutionary Biology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Coursework (one third of the total), Degree Examination (two thirds of the total). The final degree mark for Level-3 is carried forward as 15% of the degree mark for students who progress to 4th year.

*Aims:* To provide general knowledge and understanding of Zoology which is appropriate for further studies of Zoology at the final year Honours level, or for employment as a B.Sc. Ordinary graduate in a wide range of fields; To provide basic practical skills and an introduction to laboratory and field techniques in Zoology; To develop skills relating to the systematic acquisition of factual information and data; To develop the ability to solve problems and to critically analyse, interpret and discuss factual information and data; To provide opportunities to practise and improve written and oral communication skills; To introduce the use of computers in Zoology.

*Honours Course Prescription:* Ecology Field Course (with an additional own-time essay); Zoology Tutorial; Experimental Design; Vertebrate Biology (75%, practicals clashing with Applied Mathematics options are dropped); Animal Physiology; Parasite Biology; Marine Biology Field Course (with an additional own-time essay); Insect Biology.

*Course Co-ordinator:* Dr Jan Lindstrom

### 500J ANATOMY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week Honours options (usually two 3-hour session per week), research project (semester 1) tutorials and seminars

*Requirements of entry:* At least grade D in Anatomy 3H, normally at the first attempt.

*Assessment:* Degree examinations (60%), course work assessment (40%).

*Degree Examination taken in:* May/June

*Aims:* To provide you with in depth knowledge and understanding of Anatomy; to provide you with practical

skills in laboratory techniques; to encourage independent thinking in the execution of an Honours research project; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to use computers effectively in the study of Anatomy.

*Honours Course Prescription:* Anatomy 4H consists of four options from the IBLS Honours Option Scheme, a Research Project, statistical methods and critical analysis. You take at least two recommended options and two other suitable options.

*Course Co-ordinator:* Prof Anthony Payne

### 502J BIOCHEMISTRY 4H

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week options, usually taught in two 3-hour sessions per week. Research projects 3 days per week for first 12 weeks. Tutorials as arranged.

*Requirements of entry:* At least grade D in Level 3H, normally at the first attempt.

*Assessment:* Six papers (65%/6 each), project/dissertation (20%), oral at examiners' discretion. Carry forward from 3H assessment counts as 15% of final mark.

*Degree Examination taken in:* May/June

*Aims:* To describe the current state of knowledge and aims of research in defined areas; to develop a range of investigative skills including: assessing the literature in a specific field, planning and carrying out an investigation, and analysing the results, mastering a defined group of practical skills (not necessarily laboratory-based), organising and presenting written and oral reports.

*Honours Course Prescription:* You take one compulsory option, at least two recommended options and one other suitable option; research project.

*Course Co-ordinator:* Prof Gwyn Gould

### 2KGJ BIOMEDICAL SCIENCES 4H

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week Honours options (usually two 3-hour sessions per week) during Semesters 1 and 2, research project during Semesters 1 and 2, tutorials and seminars.

*Requirements of entry:* At least grade D in Biomedical Sciences 3H, normally at the first attempt.

*Assessment:* Degree examination (65%), project (16%), carry forward (15%), dissertation (4%); oral at the discretion of the examiners.

*Degree Examination taken in:* May/June

*Aims:* To describe the current state of knowledge and aims of research in defined areas; to develop a range of investigative skills including: (1) assessing the literature in a specific field; (2) planning and carrying out an

investigation and analysing the results; (3) mastering a defined group of practical skills (not necessarily laboratory based); (4) organising and presenting written and oral reports.

*Honours Course Prescription:* You take two compulsory options and two other suitable options; dissertation; research project.

*Course Co-ordinator:* Prof William Cushley

### 2KTJ BIOTECHNOLOGY 4H

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, tutorials, group work, presentations and project (37 days).

*Requirements of entry:* At least grade D in Biotechnology 3H, normally at the first attempt.

*Assessment:* Degree examination (65%), project (15%), coursework (5%) and carry forward (15%).

*Degree Examination taken in:* May/June

*Aims:* To give you the experience of an individual laboratory-based research project, and a literature-based investigation. To provide you with the opportunity for advanced study of four specialised biological topics chosen from a series of options. To give you practice in problem-solving, in use of important communication skills, such as written and verbal presentation of information, and in collaboration in groups. To develop your appreciation of the importance of the concepts, data and techniques of contemporary biology to the future well-being of mankind, and of the ethical issues which these raise.

*Honours Course Prescription:* You take at least two recommended options, at least one of which must be highly recommended, and two other suitable options; project; tutorials.

*Course Co-ordinator:* Dr Iain Johnstone

### 3YCJ COMPUTING SCIENCE & PHYSIOLOGY 4H (NEUROINFORMATICS)

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Organised jointly between the Institute of Biomedical and Life Sciences and Computing Science.

*Requirements of entry:* At least grade D in Physiology 3H, normally at first attempt and at least Grade C in Computing Science 3H at first attempt.

*Assessment:* For the Physiology component (50% of total): Degree examination (35%), course work assessment (15%).

*Degree Examination taken in:* May/June

*Aims:* As for Single Honours in Physiology and Computing Science but with a reduced breadth. The aim is to build links between the two disciplines allowing the constructive application of knowledge and technical skills to research in either discipline or in interdisciplinary research in academic and/or industrial settings.

*Honours Course Prescription:* You take two compulsory Biological Sciences options only, 3 Computing Science 4H courses and Individual Project 4 (including Professional Issues).

*Course Co-ordinator:* Dr James Morrison

### 505J GENETICS 4H

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Level-4 options are usually taught in two 3-hour sessions per week. Research project, tutorials, problem-based learning.

*Requirements of entry:* At least grade D in Genetics 3H, normally at the first attempt.

*Assessment:* Paper 1 'Compulsory' Option; Papers 2, 3 and 4: Honours Options; Paper 5 Data analysis and analysis of a scientific paper; Project and Dissertation - equivalent of a 3-hour paper.

*Degree Examination taken in:* May/June

*Aims:* Appreciation of the continuity of genetics - although many of the major questions have not changed since the inception of the subject, our ability to answer them has increased dramatically; a knowledgeable overview of the theoretical and practical foundations of classical and molecular genetics; appreciation of the broad application of genetics within modern biology, biotechnology and medicine; in-depth knowledge of selected areas, and confidence that in-depth knowledge of any area is within one's grasp.

*Honours Course Prescription:* You take one compulsory option, at least two recommended options and one other suitable option; project; dissertation.

*Course Co-ordinator:* Dr Joseph Gray

### JGCJ MARINE & FRESHWATER BIOLOGY 4H

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* As organised.

*Requirements of entry:* At least grade D in Marine & Freshwater Biology-3H, normally at the first attempt.

*Assessment:* Coursework (25%), Degree Examination (60%), Carry Forward (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a deep knowledge and understanding of specific aspects of Marine & Freshwater Biology; To provide you with an opportunity to use the basic practical skills acquired in Marine & Freshwater Biology-4H in such a way as to allow you to investigate by means of a Project a novel problem in Marine & Freshwater Biology; To develop skills relating to the systematic acquisition of factual information and data; To develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; To provide you with opportunities to practise and improve written and oral communication skills; To provide you with opportunities to practise and

improve your use of computers in Marine & Freshwater Biology.

*Honours Course Prescription:* Four options from the IBL Honours Options Scheme, a Research Project, an Essay and a course in Data Analysis. You take at least three recommended options (see below) and one other suitable option.

*Course Co-ordinator:* Prof Graeme Ruxton

### 4P7J MEDICAL BIOCHEMISTRY 4H

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week options, usually taught in two 3-hour sessions per week. Research projects 3 days per week for first 12 weeks. Tutorials as arranged.

*Requirements of entry:* At least grade D in Level 3H, normally at the first attempt.

*Assessment:* Six papers (65%/6 each), project/dissertation (20%), oral at examiners' discretion. Carry forward from 3H assessment counts as 15% of final mark.

*Aims:* To describe the current state of knowledge and aims of research in defined areas; to develop a range of investigative skills including: assessing the literature in a specific field, planning and carrying out an investigation, and analysing the results, mastering a defined group of practical skills (not necessarily laboratory-based), organising and presenting written and oral reports.

*Honours Course Prescription:* You take one compulsory option, at least two recommended options and one other suitable option; research project.

*Course Co-ordinator:* Prof Gwyn Gould

### 511J MICROBIOLOGY 4H

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Options normally in two 3-hour sessions per week until Easter. Project work for a maximum of 3 days per week, normally for 10 weeks.

*Requirements of entry:* At least grade D in Microbiology 3H, normally at the first attempt.

*Assessment:* Degree examination (71%), project (22%), essay (7%).

*Degree Examination taken in:* May/June

*Aims:* To provide the opportunity for microbiological fieldwork, with laboratory follow-up, through the Marine Microbiology course at the Universities Marine Station, Millport. To develop familiarity with the use of computers for data analysis, word-processing and graphics (essays and Project). To consolidate the knowledge and appreciation of Microbiology acquired during Level-2 and Microbiology-3H. To encourage the student to use further the diverse facilities offered by the University Library for advanced study, through the devices of General Essays, Options and the individual Research Project. To promote familiarity with scientific methods by analysing the technical data and conclusions in original research papers. To develop skills

in analysis and interpretation of numerical data, understand the use of logarithmic scales, where necessary, plot appropriate graphs, and draw conclusions. To prepare students for employment as Honours Graduates by a) encouraging them to organise their own programme of work b) developing their motivation and individual work ethic and c) further developing the ability for concise writing and verbal communication on scientific topics. To stimulate the capacity for independent, creative thought. To instil confidence and develop competence in public speaking through paper presentations, tutorials and debates. To introduce the student to the satisfactions, and insights of original research work, through the Project. To develop an appreciation of recent advances in Microbiology through a programme of IBLS, Division of Infection & Immunity and recommended University seminars given by visiting research workers.

*Honours Course Prescription:* You take one compulsory option and three other suitable options; research project.

*Course Co-ordinator:* Dr Gillian Douce

#### 4YPJ MOLECULAR & CELLULAR BIOLOGY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Level-4 options are usually taught in two 3-hour sessions per week. Research project, tutorials, problem-based learning.

*Requirements of entry:* At least Grade D in Level-3H Molecular and Cellular Biology, normally at the first attempt.

*Assessment:* Degree examination (65%), project (15%), coursework (5%) and carry forward (15%).

*Degree Examination taken in:* May/June

*Aims:* To give you the experience of an individual laboratory-based research project, and a literature-based investigation. To provide you with the opportunity for advanced study of four specialised biological topics chosen from a series of options. To give you practice in problem-solving, in use of important communication skills, such as written and verbal presentation of information, and in collaboration in groups. To develop your appreciation of the importance of the concepts, data and techniques of contemporary biology to the future well-being of mankind, and of the ethical issues which these raise.

*Honours Course Prescription:* You take at least two recommended options and two other suitable options; project; dissertation.

*Course Co-ordinator:* Dr Iain Johnstone

#### 4C1J NEUROSCIENCE 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week Honours options (usually two 3-hour sessions per week), research project (semester 1), and seminars.

*Requirements of entry:* At least grade D in Neuroscience 3H, normally at the first attempt.

*Assessment:* Degree examination (70%), course work assessment (30%).

*Degree Examination taken in:* May/June

*Aims:* To provide you with the basic practical skills and an introduction to laboratory techniques in Neuroscience; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to further your knowledge of the use of computers in Neuroscience.

*Honours Course Prescription:* Neuroscience-4H consists of four 5-week options from the IBLS Honours Option Scheme, a Research Project and Seminars on Critical Analysis. You take at least three recommended options and one other suitable option.

*Course Co-ordinator:* Prof David Maxwell

#### 517J PARASITOLOGY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four level 4 Options timetabled variously but 6-8 hours per week.

*Requirements of entry:* At least grade D in Parasitology 3H, normally at the first attempt.

*Assessment:* Degree examination (71%), project (22%), essay (7%).

*Degree Examination taken in:* May/June

*Aims:* To provide you with a broad-based knowledge and understanding of Parasitology which is appropriate for employment as a BSc Honours graduate; to provide you with research and laboratory skills in Parasitology; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to analyse critically, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to reinforce the use of computers in Parasitology.

*Honours Course Prescription:* You take one compulsory option and three other suitable options; research project.

*Course Co-ordinator:* Prof Jeremy Mottram

#### 408J PHARMACOLOGY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week Honours options (usually two 3-hour sessions per week), research project (terms 1 and 2), and seminars.

*Requirements of entry:* At least grade D in Pharmacology 3H, normally at the first attempt.

*Assessment:* Degree examination (60%), course work assessment (40%).

*Degree Examination taken in:* May/June



*Aims:* The options in the course are intended to provide students with an in-depth view of current knowledge and research developments in selected areas of pharmacology, including drug metabolism. The research project is intended to provide hands-on experience in a research laboratory or other research environment, and the opportunity to design and perform original experiments, or the opportunity to undertake an in-depth critical analysis of an area of relevant scientific interest.

*Honours Course Prescription:* You take one compulsory option, at least one recommended option and two other suitable options; Research Project.

*Course Co-ordinator:* Dr Stuart Cobb

#### 427J PHYSIOLOGY & SPORTS SCIENCE 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Requirements of entry:* At least grade D in Physiology & Sports Science-3H, normally at the first attempt.

*Assessment:* Degree examination papers 55%, project 25%, coursework 20%.

*Degree Examination taken in:* May/June

*Aims:* To equip students to serve the community, whether at the level of basic health or of high-level sport, as researchers, teachers, counsellors and leaders in the exercise sciences; to develop the critical appraisal of literature in human and cellular physiology, nutrition and the exercise and sports sciences; to impart transferable skills in relation to the experimental study and structured observation of the human subject, laboratory competence, scientific writing and literature survey, statistical analysis and the use of information technology, together with an appreciation of the philosophy and ethics of science.

*Honours Course Prescription:* You take at least three recommended options and one other suitable option; project; tutorials.

*Course Co-ordinator:* Dr Ronald Baxendale

#### 507J PHYSIOLOGY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week Honours options (usually two 3-hour sessions per week), research project (Terms 1 & 2) and seminars.

*Requirements of entry:* At least grade D in Physiology 3H, normally at the first attempt.

*Assessment:* Degree examination (70%), course work assessment including project (30%).

*Degree Examination taken in:* May/June

*Aims:* The Level-4 course draws heavily upon the research expertise of the Honours Physiology teaching staff. Students will be introduced to the original literature in several areas, as well as becoming familiar with a number of advanced experimental techniques. The object of the Senior Honours year is to further develop in the student an understanding of experimental procedures including the formulation of a problem, the

design of an experiment, the analysis of the results, and the preparation of a written report. A graduate with an Honours Degree in Physiology will have developed the discipline and necessary experimental skills to pursue further advanced studies in Physiology leading to a higher degree. The Honours degree in Physiology also provides a good general education in scientific methods so that a graduate should be able to pursue careers in areas as diverse as Scientific Publishing or Public Health.

*Honours Course Prescription:* Physiology 4H consists of four 5-week options from the IBLS Honours Option Scheme and a Research Project. You take at least two recommended options and two other suitable options.

*Course Co-ordinator:* Prof John McGrath

#### 507G PHYSIOLOGY 4H (COMBINED)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Timetable is organised jointly between the Department of Psychology and IBLS.

*Requirements of entry:* At least grade D in Physiology-3H component, normally at the first attempt. Completion of Psychology-3H component.

*Assessment:* Degree examination (70%), coursework assessment including project (30%) for the Physiology component, which comprises 50% of total assessment for the year.

*Degree Examination taken in:* May/June

*Aims:* Physiology and Psychology are a natural combination of subjects for students interested in the relationship between physiological processes and behaviour. There is a long history of the importance of being aware of these processes in relation to understanding various aspects of behaviour. For example, William James' famous *Principles of Psychology* first published in 1890 covers in great detail the known physiology of the brain, and incorporates this into discussions of emotions, the production of movement, will, and many other topics. Physiological Psychology and Neuropsychology are now well established independent disciplines. The combined honours degree in Physiology and Psychology allows the students to study in depth selected areas of both disciplines. The physiology component of the programme is divided into two streams; one concerned with homeostatic mechanisms - the control and regulation of the internal processes of the body; and the other covering neurophysiology including information processing in the nervous system.

*Honours Course Prescription:* You take only two options, both of which must be from the recommended list; a joint Maxi project; three level-3 Psychology courses.

*Course Co-ordinator:* Prof John McGrath

#### 3YLJ PHYSIOLOGY, SPORTS SCIENCE AND NUTRITION 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, practical sessions, self-directed learning, seminars and tutorials for each course. At least 14 hours per week devoted to research project.

*Requirements of entry:* At least grade D in Physiology and Sports Science 3H (first attempt)

*Assessment:* Three examination papers (70%). Honours Project (30%). Viva.

*Degree Examination taken in:* May/June

*Aims:* The aims of the course are: - to provide a thorough grounding in the principles of human nutrition with a specialisation in sports nutrition; - to equip graduates with the knowledge and skills necessary for a successful career in nutrition, sports nutrition, or sports science; - to enable graduates to engage in, and contribute to, current debates about major issues in nutrition and sports nutrition; - to provide in-depth training in the skills necessary for engaging in and interpreting nutrition research

*Honours Course Prescription:* This is a Level-4 course and shares a common third year with Physiology & Sports Science. The course has been designed to provide a thorough grounding in nutrition. In Level 4 there are a range of topics in nutrition, with an emphasis on sports and exercise. Units include: Food, Nutrients, and Dietary Recommendations, Digestion, Absorption and Metabolism, Dietary Assessment Techniques, Body Composition and Energy Expenditure, Nutritional Aspects of Growth, Development and Ageing, Food Choice and Eating Behaviour, Public Health Nutrition, Sports and Exercise Nutrition, Exercise and Public Health. Students will also carry out a substantial research project. Much of the Level-4H course is designed to be self-directed learning and students will be given opportunities to increase their critical, statistical, computing and communication skills. This degree will train individuals in the science of exercise and sports and nutritional science. By the end of the course, students should have a well rounded knowledge of nutrition as well as a special knowledge of sports nutrition. This will lead to possible employment in both fields: sports exercise and nutrition.

*Course Co-ordinator:* Ms Alison Parrett

## 6E1J PLANT SCIENCE 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Four 5-week Honours options (usually two 3-hour sessions per week), research project (weeks 1-19), tutorials and seminars. Field classes are integral part of some of the Level-4H Plant Science options.

*Requirements of entry:* At least grade D in Plant Science-3H, normally at first attempt

*Assessment:* Six degree examination papers (72.5%), project (25%), coursework (2.5%).

*Aims:* To provide you with a knowledge and understanding of the Plant Sciences which is appropriate for the further study of the subject at postgraduate level or for employment as a BSc Honours graduate in a wide range of employments; to provide you with practical skills and laboratory techniques in a selected area of the Plant Sciences; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information

and data; to provide you with opportunities to practise and improve written and oral communication skills; to develop your skills in the use of computers in the Plant Sciences.

*Honours Course Prescription:* Plant Science 4H consists of four 5-week options from the IBLS Honours Option Scheme, a Research Project, Data Evaluation & Interpretation classes and Scientific Paper Criticism classes. You take one compulsory option, at least two recommended options and one other suitable option.

*Course Co-ordinator:* Dr Joel Milner

## 2BYJ SPORTS MEDICINE 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and Clinical Demonstrations. Teaching four mornings and 2 afternoons weekly. Clinical laboratory methods and Tutorials to complement course.

*Requirements of entry:* At least grade C in Physiology and Sports Science 3H normally at the first attempt.

*Assessment:* Degree examination papers (40% each); project (40%). Coursework (20%)

*Degree Examination taken in:* May/June

*Aims:* Aims are that students acquire: Communication skills; Information retrieval skills; Ability to critically review the literature; Ability to work in teams; and also to gain an understanding of Basic scientific procedures in experimental research; Ethical aspects of medical research, hypothesis generation and experimental design; Data collection and analysis; to be able to read, with critical comprehension, current research papers related to exercise and common medical conditions; to understand the benefits of regular exercise in the prevention, diagnosis and management of medical conditions.

*Honours Course Prescription:* Sports Medicine 4H consists of four 5-week options from the IBLS Honours Option Scheme and a Research Project. You take two compulsory options and two recommended options.

*Course Co-ordinator:* Prof W Hillis

## 821J VIROLOGY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 5-week Honours options; research project; dissertation; diary and tutorials.

*Requirements of entry:* At least Grade D in Virology 3H, normally at the first attempt.

*Assessment:* Degree examination (71%), project (22%), essay (7%).

*Degree Examination taken in:* May/June

*Aims:* To provide students with: in depth knowledge and understanding of Virology; the practical skills in laboratory techniques and to encourage independent thinking in the execution of an Honours research project; to develop skills relating to the systematic acquisition of factual information and data; to develop in

the student the ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide students with opportunities to practise and improve written and oral communication skills; to use computers effectively in the study of Virology.

*Honours Course Prescription:* You take one compulsory option and three other suitable options; research project.

*Course Co-ordinator:* Dr Sheila Graham

### 509J ZOOLOGY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Students take four Honours Options, at least three of which must be from the recommended list. Research project during Terms 1 & 2 (or during the summer vacation plus the first part of Term 1).

*Requirements of entry:* At least grade D in Zoology 3H, normally at the first attempt.

*Assessment:* Experimental Design & Data Analysis (4%); essay (4%); project (17%); five x 3-hour examination papers (60%); carry forward (15%).

*Degree Examination taken in:* May/June

*Aims:* To provide you with a deep knowledge and understanding of specific aspects of Zoology; to provide you with an opportunity to use the basic practical skills acquired in Zoology-3H in such a way as to allow you to investigate by means of a Project a novel problem in Zoology; to develop skills relating to the systematic acquisition of factual information and data; to develop in you the ability to solve problems and to critically analyse, interpret and discuss factual information and data; to provide you with opportunities to practise and improve written and oral communication skills; to provide you with opportunities to practise and improve your use of computers in Zoology.

*Honours Course Prescription:* Four options from the IBL Honours Options Scheme, a Research Project, an Essay and a course in Data Analysis. You take at least three recommended options (see below) and one other suitable option.

*Course Co-ordinator:* Prof Graeme Ruxton

### 0YBG ZOOLOGY 4H (COMBINED)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* As for Zoology-4H (509J): Lectures, project and seminars.

*Requirements of entry:* At least grade D in Zoology-3H (Combined), normally at the first attempt.

*Assessment:* Honours Project (50%), Two 3-hour degree examinations (50%)

*Aims:* To provide advanced knowledge and understanding of specific aspects of Zoology; To provide an opportunity to use the basic practical skills acquired in Zoology-3H in such a way as to allow students to investigate by means of a Project a novel problem in Zoology; To develop skills relating to the systematic acquisition

of factual information and data; To develop the ability to solve problems and to critically analyse, interpret and discuss factual information and data; To provide opportunities to practise and improve written and oral communication skills; To provide opportunities to practise and improve use of computers in Zoology.

*Honours Course Prescription:* You take only two options, both of which must be from the recommended list; Honours project.

*Course Co-ordinator:* Dr Jan Lindstrom

## Celtic

### 3YMU CELTIC CIVILISATION 1A

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday and Tuesday, 1.00-2.00 pm; Tutorial: Thursday OR Friday 1.00-2.00 pm

*Assessment:* Two essays (1500-2000 words), one worth 20% and the other 30%, and examination (2 hours), 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To enable students to get a coherent picture of salient aspects of the earlier history, institutions, society and culture of the Celtic peoples up to 400 A.D.; to enable students to understand and use critically the source material from which a picture of the ancient Celtic world may be formed.

*Course Co-ordinator:* Dr Sheila Kidd

### 3YNU CELTIC CIVILISATION 1B

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday and Tuesday 1.00-2.00 pm; Tutorial: Thursday OR Friday 1.00-2.00 pm

*Co-requisites:* Normally, Celtic Civilisation 1A

*Assessment:* Two essays (1500-2000 words), each 25% and an examination (two hours), 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a coherent picture of salient aspects of the history, societies and culture of the Celtic peoples 400-1200 AD; to enable students to understand and use critically the source materials available for study of this period.

*Course Co-ordinator:* Ms Bronagh Ni Chonaill

### 162B GAELIC 1A

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures on Monday, Tuesday, Thursday, Friday at 11.00 am and 1 hour tutorial to be arranged.

*Requirements of entry:* A pass in Advanced Higher Gaidhlig, or Higher Gaidhlig, with good comprehension ability in the language.

*Excluded Courses:* Gaelic 1B; Gaelic 1C

*Assessment:* Essay in Gaelic on a topic relating to prose texts to be submitted by the end of week 12 (10%); Essay in Gaelic on a topic relating to poetry texts to be submitted by the end of week 20 (10%); Language practice exercises to be submitted on a weekly basis throughout the year (10%); Continuous assessment of oral competence in conversation class (5%); one 1-hour class test in week 12 (15%); one 2-hour examination paper at the end of the course (35%); an oral examination at the end of the course (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To broaden and deepen the four language skills (reading, writing, listening and speaking) in Gaelic; (2) to introduce a range of Gaelic prose and poetry; (3) to develop an understanding of the historical and social context of the literature studied; (4) to provide a linguistic description of aspects of the language; (5) to encourage the development of appropriate study skills.

*Course Co-ordinator:* Dr M Byrne

### 163B GAELIC 1B

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures on Monday, Tuesday, Thursday, Friday at 2.00 pm, plus one other tutorial hour to be arranged.

*Excluded Courses:* Gaelic 1A, Gaelic 1C

*Assessment:* Language practice exercises will be set twice a week throughout the year, based on the work covered in class (20%); 3 x 1-hour class tests in weeks 6, 12 & 18 (20%); an oral examination in week 12 (10%); one 2-hour examination at the end of the course (35%); oral examination at the end of the course (15%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to enable students to acquire basic language skills (speaking, listening, reading, writing) in Gaelic; (2) to introduce students to a range of appropriate vocabulary and to the grammatical framework of the language; (3) to study some Gaelic prose texts; (4) to give students an overview of the historical and sociolinguistic context of Gaelic and of the history of Gaelic literature.

*Course Co-ordinator:* Dr Sheila Kidd

### 4GWU GAELIC 1C

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures on Monday, Tuesday, Thursday, Friday at 1.00 pm and 1 further tutorial hour to be arranged.

*Requirements of entry:* Normally a pass in Higher Gaelic (Learners)

*Excluded Courses:* Gaelic 1A, Gaelic 1B

*Assessment:* Essay to be submitted by the end of Week 12 (10%); Review in Gaelic (c.600 words) to be sub-

mitted by the end of Week 20 (5%); Weekly language exercises (15%); Continuous assessment of oral competence in conversation class (5%); 1-hour class test in week 12 (15%); One 2-hour examination paper at the end of the course (35%); Oral examination at the end of the course (15%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To build on and develop existing Gaelic language skills (reading, writing, listening and speaking); to introduce students to a range of poetry and prose; to develop an understanding of the historical and social context of the literature studied; to adopt an integrated approach to language practice and oral classes which will reinforce vocabulary and grammar; to encourage the development of appropriate study skills.

*Course Co-ordinator:* Dr M Byrne

### 7FGV CELTIC CIVILISATION 2A

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday, Tuesday at 4.00 pm Tutorial: Thursday 10.00 am or 4.00 pm

*Requirements of entry:* Normally Celtic Civilisation 1A and 1B at grade D.

*Co-requisites:* Normally, Celtic Civilisation 2B

*Assessment:* Two essays (1500-2000 words), 25% each and examination (2 hours), 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* During the course we will (1) survey the political and cultural changes in Wales, Ireland and Scotland from 1066 until the union of the Scottish and English crowns; (2) compare the effects of political conquest and cultural influence on the status and nature of the relevant Celtic languages during this period; (3) discuss texts and artistic products of this period, and examine them as a source for social and cultural change.

*Course Co-ordinator:* Ms Bronagh Ni Chonaill

### 7FHV CELTIC CIVILISATION 2B

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday, Tuesday 4.00 pm.; Tutorial: Thursday 10.00 am or 4.00 pm

*Requirements of entry:* Normally Celtic Civilisation 1A and 1B at grade D.

*Co-requisites:* Normally, Celtic Civilisation 2A

*Assessment:* Two essays (1500-2000 words), 25% each and examination (two hours), 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) to trace the developments in the histories of Gaelic Scotland, Ireland and Wales from c.1750 to the present day; (2) to introduce salient aspects of the distinctive institutions, cultures and literatures of Scottish Gaelic, Irish and Welsh societies in the period 1750 to the present; (3) to examine the common features and

differing experiences of the three societies; (4) to examine the forces pertaining to language decline and linguistic and cultural revivals.

*Course Co-ordinator:* Dr Michel Byrne

### 7FTV GAELIC 2A

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Lectures on Monday, Tuesday, Thursday, Friday at 3.00 pm plus one tutorial hour to be arranged.

*Requirements of entry:* Normally, Gaelic 1A at grade D, or Gaelic 1C at grade C

*Excluded Courses:* Gaelic 2B

*Assessment:* Essay in Gaelic, Week 12 (10%); Fortnightly linguistics exercises in Semester 2 (10%); Weekly language exercises (10%); Continuous assessment of oral competence in conversation class throughout the year (5%); 1-hour class test in week 12 (15%); one 2-hour examination paper at the end of the course (35%); an oral examination at the end of the course (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to extend the four language skills (reading, writing, listening and speaking) developed in Gaelic 1A or Gaelic 1C; (2) to extend students' vocabulary, with a particular emphasis on spoken Gaelic; (3) to introduce students to a range of Gaelic poetry from the period up to and including 1745 and to develop an understanding of the role of the poet in Gaelic society; (4) to study a range of functional Gaelic prose writings in terms of subject-matter and style; (5) to provide opportunities for students to write and translate functional texts; (6) to introduce students to aspects of Gaelic linguistics.

*Course Co-ordinator:* Dr Sheila Kidd

### 7FRV GAELIC 2B

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Lectures on Monday, Tuesday, Wednesday, Thursday, Friday at 1.00 pm and 1 further tutorial hour to be arranged.

*Requirements of entry:* Gaelic 1B at grade D

*Excluded Courses:* Gaelic 2A

*Assessment:* Two essays in Gaelic (25%). Weekly grammar exercises (15%); Continuous assessment of oral competence in conversation class (5%); Linguistic exercises (5%), One 2-hour examination paper at the end of the course (35%); Oral examination at the end of the course (15%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to build on and develop Gaelic language skills (reading, writing, listening and speaking) acquired in Gaelic 1B; (2) to introduce students to a wide range of poetry from the seventeenth to the twentieth centuries; (3) to read and discuss a range of fiction and non-fiction Gaelic texts from the twentieth century; (4) to study some of the main genres and trends in Gaelic literature

since the sixteenth century; (5) to adopt an integrated approach to language practice and oral classes which will reinforce vocabulary and grammar; (6) to introduce students to aspects of Gaelic linguistics.

*Course Co-ordinator:* Dr Michel Byrne

### 6B2F CELTIC CIVILISATION 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* Normally a C average in Celtic Civilisation 2A and 2B, of which the grade for at least one of these courses should be a B. Performance in level 1 Celtic Civilisation courses will be taken into account, and you should have satisfactorily completed at least 3 of the 4 level 1 & 2 Celtic Civilisation courses.

*Assessment:* Essays, seminars and end of year examination.

*Degree Examination taken in:* May/June

*Aims:* The MA (Hons) in Celtic Civilisation, which must be taken jointly with another subject, aims primarily to offer in-depth, research-led courses in the history, literature and cultures of the Celtic-speaking peoples, deepening students' abilities to approach these topics critically from an enquiry-led standpoint.

*Honours Course Prescription:* 120 credits over two years, chosen from courses (mostly 20 credits each) as directed by departmental guidelines. A Dissertation must be done in one of the two departments in which the student is studying. If a Dissertation is done with Celtic, it must be a Joint Honours Dissertation (20 credits). Otherwise courses are chosen which may include, as appropriate: Iona, 563-present; The Celtic Place-Names of Scotland; Early Gaelic Literature in translation; Medieval Welsh Literature in translation; The World of Dafydd ap Gwilym and Iolo Goch; Belief and Culture: Early Medieval Ireland and Scotland; Legal Traditions and Social Reflections; Courses taught through School of History and Archaeology: Picts and the formation of Alba; Early Medieval Gaeldom; The Northern Britons 400-1100; Gaelic Scotland and the British State; The Highland Clearances; Medieval Ireland 800 - 1100.

*Course Co-ordinator:* Prof Roibeard O Maolalaih

### JSLF CELTIC STUDIES 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* Normally a C average in Celtic Civilisation 2A and 2B, of which the grade for one of these courses should be a B, and a satisfactory performance in Celtic Civilisation 1A and 1B; OR a B grade in Gaelic 2A or 2B, and a satisfactory performance in Gaelic 1A or 1B or 1C.

*Assessment:* Essays, seminars and end of year examinations.

*Degree Examination taken in:* May/June

*Aims:* The MA (Hons) in Celtic Studies has as its primary aim the provision of courses offering in-depth, research-led study of Celtic cultures, literatures and histories, alongside the language study necessary for students to develop deeper, more independent and enquiry-led research skills.

*Honours Course Prescription:* 120 credits over two years, chosen from courses (mostly 20 credits each) as directed by departmental guidelines. The MA (Hons) in Celtic Studies has two main streams: 1) Students studying medieval Celtic languages alongside their literatures and cultures; 2) Students studying Celtic cultures, literatures and histories whilst acquiring or furthering their knowledge of a Celtic language, modern or medieval. All Joint Honours students must do a Dissertation with one of their departments. Students doing a Dissertation in the Department of Celtic will do a Joint Honours Dissertation (20 credits). For the MA (Hons) in Celtic Studies, students must do at least 40 credits of language study, which may include as appropriate: Introduction to Early Gaelic (Old and Middle Irish); Introduction to Medieval Welsh; Honours Gaelic Ab Initio; Honours Gaelic Intermediate; Honours Gàidhlig airson Fileantaich [all 40 credits courses]; Introduction to Modern Irish; Introduction to Classical Gaelic [20-credit courses]. The remaining courses are chosen from a menu of 20-credit courses as appropriate (see Celtic Studies 3H Single for details).

*Course Co-ordinator:* Prof Roibeard O Maolalaigh

### JSMH CELTIC STUDIES 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* Normally a C average in Celtic Civilisation 2A and 2B, of which the grade for one of these courses should be a B, and a satisfactory performance in Celtic Civilisation 1A and 1B; OR a B grade in Gaelic 2A or 2B, and a satisfactory performance in Gaelic 1A or 1B or 1C.

*Assessment:* Essays, seminars and end of year examinations.

*Degree Examination taken in:* May/June

*Aims:* The MA (Hons) in Celtic Studies has as its primary aim the provision of courses offering in-depth, research-led study of Celtic cultures, literatures and histories, alongside the language study necessary for students to develop deeper, more independent and enquiry-led research skills.

*Honours Course Prescription:* 240 credits over two years, chosen from courses (mostly 20 credits each) as directed by departmental guidelines. The MA (Hons) in Celtic Studies has two main streams: 1) Students studying medieval Celtic languages alongside their literatures and cultures; 2) Students studying Celtic cultures, literatures and histories whilst acquiring or furthering their knowledge of a Celtic language, modern or medieval. All Single Honours students must do a Dissertation (40 credits). For the MA (Hons) in Celtic Studies, students must do at least 40 credits of language study, which may include as appropriate: Introduction to Early Gaelic

(Old and Middle Irish); Introduction to Medieval Welsh; Honours Gaelic Ab Initio; Honours Gaelic Intermediate; Honours Gàidhlig airson Fileantaich [all 40 credits courses]; Introduction to Modern Irish; Introduction to Classical Gaelic [20-credit courses]. The remaining courses are chosen from a menu of 20-credit courses which may include as appropriate: Iona, 563-present; The Celtic Place-Names of Scotland; Early Gaelic Literature (in translation); Medieval Welsh Literature (in translation); The World of Dafydd ap Gwilym and Iolo Goch; Belief and Culture: Early Medieval Ireland and Scotland; Historical development of Gaelic; Gaelic dialectology; 20th century Irish Poetry; Dánta Grádha; Early Gaelic Poetry; Advanced Early Gaelic Texts; Medieval Welsh Poetry; Advanced Medieval Welsh Texts; Bårdachd agus Ar-a-mach; Seann 's Ùr ann am Bårdachd na 18mh linn; Guth nam Ban 1450-1750; Am Bård Baile; Bårdachd Cogaidh 1930-1950; Bårdachd Gàidhlig o 1950; An 19mh linn tro shùilean nan Gaidheal; Fèin-Eachdraidh ann an Gàidhlig; Ficsèan Gàidhlig san 20mh linn; Courses taught through School of History and Archaeology: Legal Traditions and Social Reflections; Picts and the formation of Alba; Early Medieval Gaeldom; Medieval Ireland 800-1100; The Northern Britons 400-1100; Gaelic Scotland and the British State; The Highland Clearances.

*Course Co-ordinator:* Prof Roibeard O Maolalaigh

### 110D GAELIC 3

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 3 hours per week (lectures); 1 hour per week (tutorial). Times to be arranged.

*Requirements of entry:* Gaelic 2A at grade D or Gaelic 2B at grade C

*Assessment:* An essay in Gaelic (1500 words) for the Honours course chosen in Semester 1 to be submitted by the end of week 9 (10%); an essay in Gaelic (1500 words) for the Honours course chosen in Semester 2 to be submitted by the end of week 19 (10%); Language practice exercises to be submitted fortnightly throughout the year (10%); An essay in Gaelic of at least 3000 words to be submitted by the end of Semester 2 (25%); continuous assessment of oral competence in conversation class throughout the year (5%); two two-hour examination papers at the end of the course (30%); an oral examination at the end of the course (10%). No scheme of exemption is operated.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to extend the four language skills (reading, writing, listening and speaking) developed in Gaelic 2A or 2B; (2) to extend students' vocabulary, in both written and spoken Gaelic; (3) to broaden students' knowledge of Gaelic poetry; (4) to broaden students' knowledge of Gaelic prose; (5) to encourage students to think critically about Gaelic literature and identify elements of continuity and innovation in the literature studied.

*Course Co-ordinator:* Dr Sheila Kidd

**JRFX GAELIC 3H (JOINT)***Credits:* 60*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses chosen*Requirements of entry:* Normally a B grade in Gaelic 2A or 2B, and a satisfactory performance in Gaelic 1A or 1B or 1C.*Assessment:* Essays, seminars and end of year examinations.*Aims:* This degree seeks primarily to foster and develop the study of Gaelic language, literature and culture in an environment which integrates teaching and research; to develop a thorough knowledge and considered application of Gaelic; to provide access to a range of learning resources for the purpose of studying Gaelic language, literature and cultures; to impart to students an in-depth knowledge of the relevant culture; to encourage and promote an appreciation of the Gaelic languages in an atmosphere conducive to the pursuit of scholarship.*Honours Course Prescription:* 120 credits over two years, chosen from courses (normally 20 credits) as directed by departmental guidelines. Students are required to do Sgilean Cànain (40-credit, 2-year skills course, examined in Senior Honours year); and must do a Dissertation with one of their two departments. If it is with Celtic, then it will be a Joint Honours dissertation. In addition to these, students select from a variety of 20-credit courses in Gaelic language, literature and culture (for which see Gaelic 3H Single).*Course Co-ordinator:* Prof Roibeard O Maolalaigh**JRYH GAELIC 3H (SINGLE)***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses chosen*Requirements of entry:* Normally a B grade in Gaelic 2A or 2B, and a satisfactory performance in Gaelic 1A or 1B or 1C.*Assessment:* Essays, seminars and end of year examination.*Degree Examination taken in:* May/June*Aims:* The MA (Hons) in Gaelic aims primarily to foster and develop the study of Gaelic language, literature and culture in an environment which integrates teaching and research; to develop a thorough knowledge of, and spoken and written ability in Gaelic; to encourage and promote an appreciation of Gaelic language, literature and culture and in an atmosphere conducive to the pursuit of scholarship.*Honours Course Prescription:* 240 credits over two years, chosen from courses (normally 20-credit) as directed by departmental guidelines. All students must do a Dissertation (40 credits), submitted in Senior Honours year; and Sgilean Cànain (40 credits), taught over two years. Students also choose from a variety of courses, in accordance with departmental guidelines, which may include: Bàrdachd agus Ar-a-mach; Seann 's Ùr ann am Bàrdachd na 18mh linn; Guth nam Ban 1450-1750; Am Bàrd Baile; Bàrdachd Cogaidh 1930-1950; Bàrdachd Gàidhlig o 1950; An 19mh linn tro shùilean

nan Gaidheal; Fèin-Eachdraidh ann an Gàidhlig; Ficsean Gàidhlig san 20mh linn; Historical development of Gaelic; Gaelic dialectology; Gaelic sociolinguistics; Introduction to Modern Irish; 20th century Irish Poetry; Introduction to Classical Gaelic; Dánta Grádha; Introduction to Early Gaelic (Old and Middle Irish); Early Gaelic Poetry; Advanced Early Gaelic Texts; Introduction to Medieval Welsh; Medieval Welsh Poetry; Advanced Medieval Welsh Texts; Iona, 563-present; The Celtic Place-Names of Scotland; Early Gaelic Literature (in translation); Medieval Welsh Literature (in translation); The World of Dafydd ap Gwilym and Iolo Goch (texts in translation); Belief and Culture: Early Medieval Ireland and Scotland; Courses taught through School of History and Archaeology: Picts and the formation of Alba; Early Medieval Gaeldom; Medieval Ireland 800-1100; The Northern Britons 400-1100; Gaelic Scotland and the British State; The Highland Clearances.

*Course Co-ordinator:* Prof Thomas Clancy**6B2G CELTIC CIVILISATION 4H (JOINT)***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses chosen*Requirements of entry:* Normally a C average in Celtic Civilisation 2A and 2B, of which the grade for at least one of these courses should be a B. Performance in level 1 Celtic Civilisation courses will be taken into account, and you should have satisfactorily completed at least 3 of the 4 level 1 & 2 Celtic Civilisation modules.*Assessment:* Five papers taken in 4H year*Degree Examination taken in:* May/June*Aims:* The MA (Hons) in Celtic Civilisation, which must be taken jointly with another subject, aims primarily to offer in-depth, research-led courses in the history, literature and cultures of the Celtic-speaking peoples, deepening students' abilities to approach these topics critically from an enquiry-led standpoint.*Honours Course Prescription:* 120 credits over two years, chosen from courses (mostly 20 credits each) as directed by departmental guidelines. A Dissertation must be done in one of the two departments in which the student is studying. If a Dissertation is done with Celtic, it must be a Joint Honours Dissertation (20 credits). Otherwise courses are chosen from a menu of courses (for which see Celtic Civilisation 3H).*Course Co-ordinator:* Prof Roibeard O Maolalaigh**JSNG CELTIC STUDIES 4H (JOINT)***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses chosen*Requirements of entry:* Normally a C average in Celtic Civilisation 2A and 2B, of which the grade for one of these courses should be a B, and a satisfactory performance in Celtic Civilisation 1A and 1B; OR a B grade in Gaelic 2A or 2B, and a satisfactory performance in Gaelic 1A or 1B or 1C.

*Assessment:* Essays, seminars and end of year examinations.

*Degree Examination taken in:* May/June

*Aims:* The MA (Hons) in Celtic Studies has as its primary aim the provision of courses offering in-depth, research-led study of Celtic cultures, literatures and histories, alongside the language study necessary for students to develop deeper, more independent and enquiry-led research skills.

*Honours Course Prescription:* 120 credits over two years, chosen from courses (mostly 20 credits each) as directed by departmental guidelines. The MA (Hons) in Celtic Studies has two main streams: 1) Students studying medieval Celtic languages alongside their literatures and cultures; 2) Students studying Celtic cultures, literatures and histories whilst acquiring or furthering their knowledge of a Celtic language, modern or medieval. All Joint Honours students must do a Dissertation with one of their departments. Students doing a Dissertation in the Department of Celtic will do a Joint Honours Dissertation (20 credits). For the MA (Hons) in Celtic Studies, students must do at least 40 credits of language study, which may include as appropriate: Introduction to Early Gaelic (Old and Middle Irish); Introduction to Medieval Welsh; Honours Gaelic Ab Initio; Honours Gaelic Intermediate; Honours Gàidhlig airson Fileantaich [all 40 credits courses]; Introduction to Modern Irish; Introduction to Classical Gaelic [20-credit courses]. The remaining courses are chosen from a menu of 20-credit courses as appropriate (see Celtic Studies 3H Single for details).

*Course Co-ordinator:* Prof Roibeard O Maolalagh

### JSPJ CELTIC STUDIES 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* Normally a C average in Celtic Civilisation 2A and 2B, of which the grade for one of these courses should be a B, and a satisfactory performance in Celtic Civilisation 1A and 1B; OR a B grade in Gaelic 2A or 2B, and a satisfactory performance in Gaelic 1A or 1B or 1C.

*Assessment:* Essays, seminars and end of year examinations.

*Degree Examination taken in:* May/June

*Aims:* The MA (Hons) in Celtic Studies has as its primary aim the provision of courses offering in-depth, research-led study of Celtic cultures, literatures and histories, alongside the language study necessary for students to develop deeper, more independent and enquiry-led research skills.

*Honours Course Prescription:* 240 credits over two years, chosen from courses (mostly 20 credits each) as directed by departmental guidelines. The MA (Hons) in Celtic Studies has two main streams: 1) Students studying medieval Celtic languages alongside their literatures and cultures; 2) Students studying Celtic cultures, literatures and histories whilst acquiring or furthering their knowledge of a Celtic language, modern or medieval. All Single Honours students must do a Dissertation (40

credits). For the MA (Hons) in Celtic Studies, students must do at least 40 credits of language study, which may include as appropriate: Introduction to Early Gaelic (Old and Middle Irish); Introduction to Medieval Welsh; Honours Gaelic Ab Initio; Honours Gaelic Intermediate; Honours Gàidhlig airson Fileantaich [all 40 credits courses]; Introduction to Modern Irish; Introduction to Classical Gaelic [20-credit courses]. The remaining courses are chosen from a menu of 20-credit courses as appropriate (for details, see Celtic Studies 3H Single).

*Course Co-ordinator:* Prof Roibeard O Maolalagh

### JRZG GAELIC 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* Normally a B grade in Gaelic 2A or 2B, and a satisfactory performance in Gaelic 1A or 1B or 1C.

*Assessment:* Essays, seminars and end of year examinations.

*Degree Examination taken in:* May/June

*Aims:* The MA (Hons) in Gaelic aims primarily to foster and develop the study of Gaelic language, literature and culture in an environment which integrates teaching and research; to develop a thorough knowledge of, and spoken and written ability in Gaelic; to encourage and promote an appreciation of Gaelic language, literature and culture and in an atmosphere conducive to the pursuit of scholarship.

*Honours Course Prescription:* 120 credits over two years, chosen from among courses (mostly 20-credit) as directed by departmental guidelines. Students are required to do Sgilean Cànan (40 credits) a 2-year skills course, examined in Senior Honours year; and must do a Dissertation with one of their two departments. If it is with Celtic, then it will be a Joint Honours dissertation (20 credits). In addition to these, students select from a variety of courses in Gaelic language, literature and culture, for which see the description under Gaelic 3H Single.

*Course Co-ordinator:* Prof Roibeard O Maolalagh

### JSAJ GAELIC 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* Students may be admitted into the Honours courses in Celtic if they have successfully attained: Normally a B grade in Gaelic 1A/1C and Gaelic 2A or in Gaelic 1B and 2B.

*Assessment:* Essays, seminars and end of year examination.

*Aims:* This degree seeks primarily to foster and develop the study of Gaelic language, literature and culture in an environment which integrates teaching and research; to develop a thorough knowledge and considered application of Gaelic; to provide access to a range of learning resources for the purpose of studying Gaelic language,



literature and cultures; to impart to students an in-depth knowledge of the relevant culture; to encourage and promote an appreciation of the Gaelic languages in an atmosphere conducive to the pursuit of scholarship.

*Honours Course Prescription:* Twelve courses or course equivalents over two years as directed by departmental guidelines. All students must do a Dissertation (40 credits), submitted in Senior Honours year; and Sgilean Cànanain (40 credits), taught over two years. Students also choose from a variety of courses, in accordance with departmental guidelines, for which see Gaelic 3H Single.

*Course Co-ordinator:* Prof Roibeard O Maolalaigh

## Central & East European Studies

### 237U CENTRAL AND EAST EUROPEAN STUDIES 1

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* 1 hour on Monday, Tuesday and Thursday at 4 p.m. each week

*Assessment:* Two essays of approx 2,000 words, each worth 25% of the final mark. Unseen examination, 2 hours, worth 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course will demonstrate the following: 1) the importance of the region to European development; 2) the impact of geography on regional development; 3) the complexity of the various ethnic groups of the region; 4) the historical development of Russia and Central Europe, including the role of the state and its relationship to society; 5) the importance of cultural development, the position of various socio-cultural groups and the politics of gender in the region; 6) the processes behind Stalinisation and 'communisation' in the region; 7) the impact of communism in its economic, social and political forms in the region and the differences between the experiences of various countries; 8) the reasons for the collapse of the communist system and its consequences.

*Course Co-ordinator:* Prof Geoffrey Swain

### 237V CENTRAL AND EAST EUROPEAN STUDIES 2

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* 1 hour on Monday, Tuesday and Thursday at 2 p.m. each week

*Requirements of entry:* Applicants are considered for direct entry to second year on the basis of a student completing a cognate subject in Arts or Social Sciences. Besides Central and East European Studies Level 1, this will include Economics Level 1, History Level 1, Politics Level 1, Slavonic Studies Level 1 and Sociology Level 1. Applications from students with other level 1 subjects will be considered by the Head of Department.

*Excluded Courses:* N/A

*Assessment:* Two essays of approx 2,000 words, each worth 25% of the final mark. Unseen examination, 2 hours, worth 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course will demonstrate the following: The reasons for the collapse of the communist system and its consequences; the complexities behind the process of democratisation in the region including the relationship between state and citizen; the nature of economic and social change brought about in the 1990s; the nature of cultural politics, identity and gender in the transition era; changes in the media, literature and the arts; the importance of the region for Europe as a whole, including a focus on EU/Central East European relations.

*Course Co-ordinator:* Dr David Smith

### 9JYW CENTRAL & EAST EUROPEAN STUDIES 3: CIVIL SOCIETY AND STATE IN EAST CENTRAL EUROPE

*Credits:* 30 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Weekly on Mondays 12 - 2 pm.

*Requirements of entry:* Grade D at level 2 Central and East European Studies

*Assessment:* 2 essays (circa 2,500 words each) each worth 25% of the final mark, plus a project resulting in an essay (circa 3,000 words) worth 50%.

*Aims:* The course aims to give students an understanding of the political issues and themes which have run through European politics since the end of the Second World War. The various dynamics of change between state policies and structures, and social politics and social movements are identified and analysed. This necessarily includes helping students to understand the developments in Central and Eastern Europe, which led to regime changes in 1989. The course should provide an analysis of the progress of the transitions to democracy in Central and Eastern Europe since 1989. Students will also have an opportunity to gain an in depth knowledge of how the processes connected with European integration have altered relationships between civil societies and states in East Central Europe.

*Course Co-ordinator:* Dr Clare McManus-Czubinska

### 9JZW CENTRAL & EAST EUROPEAN STUDIES 3: STATEHOOD, NATIONALITY AND IDENTITY: THE BALTIC STATES SINCE 1918

*Credits:* 30 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Weekly on Thursdays 9 - 11 am

*Requirements of entry:* Grade D at level 2 Central and East European Studies

*Assessment:* 2 essays (circa 2,500 words) each worth 25% of the final mark, plus a project resulting in an essay (circa 3,000 words) worth 50%.

*Aims:* To examine how the three Baltic peoples have responded to the challenges of state and nation-building

and European reconstruction during the inter-war period and the more recent era of post-Soviet transition. To analyse the above issues in comparative perspective. To account for the divergent historical experiences of the Baltic States and Finland and the varying perspectives of these two actors on current region-building projects in the Baltic Sea Area. Through discussion of Baltic developments, to analyse critically aspects of the wider literature on nation, state and region-building, minority rights and ethnic conflict regulation in Central and Eastern Europe.

*Course Co-ordinator:* Dr David Smith

### **237F CENTRAL & EAST EUROPEAN STUDIES 3H (COMBINED)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Various times.

*Requirements of entry:* Grade C in Central and East European Studies Level 2.

*Assessment:* The Department operates a split diet system of final honours examinations. This means that students taking honours options in the Department will sit final honours examinations in the same year as the option is taken, i.e. options taken in Junior Honours are examined at the end of the Junior Honours year, and options taken in Senior Honours are examined at the end of the Senior Honours year. Joint Honours students must take four options in the Department of Central and East European Studies. Two options are studied in the Junior Honours year and two are studied in Senior Honours. A dissertation on an approved topic must be substituted for one of the two papers taken in Senior Honours if you are not writing a dissertation for your other Honours subject. All options are assessed as follows: coursework worth 50%; unseen examination, 2 hours, worth 50%.

*Degree Examination taken in:* May/June

*Aims:* The course aims to provide a multi-disciplinary approach to the region. Students are given a wide range of subject options based on different approaches to the subject area using a number of teaching methods. The diversity of options available allows students to benefit from the specialised knowledge of staff in areas particular to their research and from teaching methods tailored to the aims and objectives of the course studied. This includes access to complementary honours courses delivered by cognate departments. The programme will thus provide honours students with a range of courses from which to make an informed choice in Central and East European Studies as part of a joint honours programme.

*Honours Course Prescription:* Subject to availability, any three from: An Economic and Social History of Eastern Europe, 1918-1989; Civil Society and State in East Central Europe; Cultural Politics and Social Change in Soviet and Post-Soviet Russia; Estonian Society, Culture and Language (1); Estonian Society, Culture and Language (2); Latvian History, Society, Culture and Language (1); Post-Soviet Russia: Renegotiating Global and Local Identities; Society and Environment in the Post-Socialist World; Statehood, Nation-

ality and Identity: The Baltic States since 1918; The Russian Revolution and Civil War, 1917-1921, plus Dissertation if you are not writing a Dissertation for your other Honours subject. Students should note that no more than one recommended outside paper (30 credits) may be taken during the two years of Honours study. In cases where the outside paper is worth only 15 credits, students must mix and match with other courses to find another paper worth 15 credits to make a full (30 credit) Honours option. All outside papers have to be approved by the Head of Department and the course lecturer concerned.

*Course Co-ordinator:* Dr Jonathan Oldfield

### **237G CENTRAL & EAST EUROPEAN STUDIES 4H (COMBINED)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Various times.

*Requirements of entry:* Grade C in Central and East European Studies Level 2.

*Assessment:* The Department operates a split diet system of final honours examinations. This means that students taking honours options in the Department will sit final honours examinations in the same year as the option is taken, i.e. options taken in Junior Honours are examined at the end of the Junior Honours year, and options taken in Senior Honours are examined at the end of the Senior Honours year. Joint Honours students must take four options in the Department of Central and East European Studies. Two options are studied in the Junior Honours year and two are studied in Senior Honours. A dissertation on an approved topic must be substituted for one of the two papers taken in Senior Honours if you are not writing a dissertation for your other Honours subject. All options are assessed as follows: coursework worth 50%; unseen examination, 2 hours, worth 50%.

*Degree Examination taken in:* May/June

*Aims:* The course aims to provide a multi-disciplinary approach to the region. Students are given a wide range of subject options based on different approaches to the subject area using a number of teaching methods. The diversity of options available allows students to benefit from the specialised knowledge of staff in areas particular to their research and from teaching methods tailored to the aims and objectives of the course studied. This includes access to complementary honours courses delivered by cognate departments. The programme will thus provide honours students with a range of courses from which to make an informed choice in Central and East European Studies as part of a joint honours programme.

*Honours Course Prescription:* Subject to availability, any three from: An Economic and Social History of Eastern Europe, 1918-1989; Civil Society and State in East Central Europe; Cultural Politics and Social Change in Soviet and Post-Soviet Russia; Estonian Society, Culture and Language (1); Estonian Society, Culture and Language (2); Latvian History, Society, Culture and Language (1); Post-Soviet Russia: Renegotiating Global and Local Identities; Society and Environ-

ment in the Post-Socialist World; Statehood, Nationality and Identity: The Baltic States since 1918; The Russian Revolution and Civil War, 1917-1921 plus Dissertation if you are not writing a Dissertation for your other Honours subject. Students should note that no more than one recommended outside paper (30 credits) may be taken during the two years of Honours study. In cases where the outside paper is worth only 15 credits, students must mix and match with other courses to find another paper worth 15 credits to make a full (30 credit) Honours option. All outside papers have to be approved by the Head of Department and the course lecturer concerned.

*Course Co-ordinator:* Dr Jonathan Oldfield

## Chemistry

### 402B CHEMISTRY 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* 24 weeks of three or four lectures per week at 10.00 am or 3.00 pm; weekly laboratory (3 hours) starting at either 10.00 am or 2.00 pm; workshops and tutorials as arranged at 10.00 am or 3.00 pm.

*Requirements of entry:* Normally at least Higher Chemistry at grade B or equivalent.

*Excluded Courses:* General Chemistry-1, Science Fundamentals 1X/Y

*Assessment:* One 3-hour paper (50%), January examination (30%), practical mark (10%), assessments (10%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To broaden students' knowledge of the facts, theories, concepts, applications, development and importance of chemistry; to enhance skills in - handling numbers, units, equations, diagrams and abstract ideas; analysing data; prioritising information; making deductions; taking decisions; making and justifying proposals; and in communicating and reporting clearly; to provide a sound basis for those students who may decide to proceed to Honours in Chemistry or a related science; to encourage interest in the subject and its interaction with other sciences; to give experience in the safe and accurate handling of chemical substances and apparatus; to encourage development of learning strategies.

*Course Co-ordinator:* Prof Robert Hill

### 4N7B ENVIRONMENTAL SCIENCE 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: Monday, Tuesday, Wednesday, Thursday, at 1.00 pm. One three hour laboratory session per week starting at 10.00 am or 2.00 pm.

*Assessment:* Three tests (30%), one one hour mid-session examination (10%), laboratory assessment (20%), end of session examination (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Environmental Science 1 aims to provide an introduction to the science of the environment and a broad basis for the specialist environmental sciences studies in later years. It is taught by a team drawn from the Departments of Chemistry, Geographical and Earth Sciences, Physics and Astronomy and the Institute of Biomedical and Life Sciences using an integrated multi-disciplinary approach. The course aims to cover a wide range of environmental topics in four sections:- The Physical World (e.g. the diversity of plants and animals, animal ecology, human populations) Soils and Pollution (e.g. soils, environmental radioactivity, water pollution, the ozone layer) and Resources and Conservation (e.g. resource reserves, energy from biomass, green politics, vulnerable habitats).

*Course Co-ordinator:* Dr Stewart White

### 9XXU SCIENCE FUNDAMENTALS-1X

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Daily 10-11 or 3-4

*Excluded Courses:* Chemistry-1, Physics-1P/Q, Physics-1X/Y

*Assessment:* Two class tests (20%), coursework (20%), two-hour final examination (60%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide a broad understanding, at an introductory level, of the fundamentals of mathematics, statistics, physics and chemistry, particularly as they apply to living organisms. To encourage the acquisition of general scientific skills relating interpretation and discussion of factual information and data. To encourage a positive and inquisitive attitude to the personal investigation of science.

*Course Co-ordinator:* Dr Adrian Laphorn

### 9XYU SCIENCE FUNDAMENTALS-1Y

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* 10-11 or 3-4 daily

*Co-requisites:* Science Fundamentals-1X

*Excluded Courses:* Chemistry-1, Physics-1P/Q, Physics-1X/Y

*Assessment:* Two class tests (20%), coursework (20%), two-hour final examination (60%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a broad understanding, at an introductory level, of the fundamentals of mathematics, physics and chemistry, particularly as they apply to living organisms. To encourage the acquisition of general scientific skills relating interpretation and discussion of factual information and data. To encourage a positive and inquisitive attitude to the personal investigation of science.

*Course Co-ordinator:* Dr Adrian Laphorn

**1RFP CHEMISTRY 2X***Credits:* 30*Level:* 2*When Taught:* Full Session (September - June)*Timetable:* Tuesday, Thursday, and some Monday - 11.00 am; laboratory one 3 hour session (2.00-5.00 pm) per week; tutorials as arranged.*Requirements of entry:* Grade D or above in Chemistry 1 or grade B or above in General Chemistry 1.*Assessment:* One 3-hour paper. (50%); three class tests (20%); January Class examination (15%); practical work (10%), Interactive Teaching Units (5%)*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* Following on from Chemistry-1 to consolidate students' knowledge of the facts, theories, concepts, applications, development and importance of fundamental molecular chemistry; to further enhance skills in - handling numbers, units, equations, diagrams and abstract ideas; analysing data; prioritising information; making deductions; taking decisions; making and justifying proposals; and in communicating and reporting clearly; to continue to provide a sound basis for those students who may decide to proceed to Honours in Chemistry or a related science; to encourage interest in the subject and its interaction with other sciences; to give further experience in the safe and accurate handling of chemical substances and apparatus; to encourage development of learning strategies; to generate awareness of chemical factors in industrial and other decision making processes.

*Course Co-ordinator:* Dr Justin Hargreaves**1RGP CHEMISTRY 2Y***Credits:* 30*Level:* 2*When Taught:* Full Session (September - June)*Timetable:* Wednesday, Friday, and some Monday - 11.00 am; laboratory one 3 hour session (2.00-5.00 pm) per week; tutorials as arranged.*Requirements of entry:* Grade D or above in Chemistry 1 or grade B or above in General Chemistry 1.*Assessment:* One 3-hour paper. (50%); three class tests (20%); January Class examination (15%); practical work (10%), Interactive Teaching Units (5%)*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* Following on from Chemistry-1 to consolidate students' knowledge of the facts, theories, concepts, applications, development and importance of the chemistry of the natural world; to further enhance skills in - handling numbers, units, equations, diagrams and abstract ideas; analysing data; prioritising information; making deductions; taking decisions; making and justifying proposals; and in communicating and reporting clearly; to continue to provide a sound basis for those students who may decide to proceed to Honours in Chemistry or a related science; to encourage interest in the subject and its interaction with other sciences; to give further experience in the safe and accurate handling

of chemical substances and apparatus; to encourage development of learning strategies; to generate awareness of chemical factors in industrial and other decision making processes.

*Course Co-ordinator:* Dr Justin Hargreaves**5KUV ENVIRONMENTAL CHEMISTRY 2A - THE NATURAL ENVIRONMENT***Credits:* 30*Level:* 2*When Taught:* Semester 1 (September - January)*Timetable:* Lectures: Monday, Tuesday, Thursday, Friday - 13.00 (tutorials and class tests also at this time). Laboratory classes: Monday and Friday, 14.00 - 17.00.*Requirements of entry:* Normally Grade D in Chemistry 1 or General Chemistry 1. Grade C in Environmental Science - 1 will be acceptable with an appropriate pre-university qualification in chemistry.*Excluded Courses:* Environmental Chemistry 2E*Assessment:* January examination (2 hours) (40%), two class tests (20%); laboratory reports (35%); other coursework (5%)*Degree Examination taken in:* January*Resit Examination taken in:* August/September

*Aims:* This course aims to describe the chemistry and functioning of the components of the natural environment, the interactions between these components and the processes which operate within and between them. This will provide an understanding of the chemistry of rocks, soils, sediments, water, air and living organisms. Particular attention will be paid to the processes which cause mobilisation or immobilisation of chemical species, their mobility and cycling between the different environmental components.

*Course Co-ordinator:* Dr Ian Pulford**5KWV ENVIRONMENTAL CHEMISTRY 2B - ENVIRONMENTAL SYSTEMS AND POLLUTION***Credits:* 30*Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Lectures: Monday, Tuesday, Thursday, Friday - 13.00 (tutorials and class tests also at this time). Laboratory classes: Monday and Friday, 14.00 - 17.00.*Requirements of entry:* Normally Grade D in Environmental Chemistry 2A*Excluded Courses:* Environmental Chemistry 2E and Environmental Chemistry 2F*Assessment:* May examination (2 hours) (40%), two class tests (20%); laboratory reports and project (35%); essay (5%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September

*Aims:* This course aims to describe the chemistry and behaviour of environmental systems and the effect of human activity on them.

*Course Co-ordinator:* Dr Ian Pulford

**JQUW CHEMICAL PHYSICS 3***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Lectures, laboratories and tutorials to be arranged.*Requirements of entry:* Physics 2X and 2Y at a grade point average of 10, Chemistry 2X and 2Y at a grade point average of 10. All normally at first diet of examinations.*Assessment:* Examinations in chemistry (42.5%) and physics (33.3%); assessment of physics laboratory/IT skills (16.7%) and chemistry laboratory (7.5%).*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of modern aspects of inorganic & physical and theoretical chemistry and of modern physics; (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in chemical physics and its applications; (3) To develop the practical skills necessary for a chemical physicist by means of individual laboratory experiments, to provide training in scientific data analysis, and to give the opportunity for the student to apply these in performing an extended project; (4) To develop the student's transferable skills, in the writing of reports on individual project work, and in verbal communication of such results; (5) To develop the students' ability to work effectively and to reinforce their individual responsibility for their own learning.*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Quantum Mechanics; Heterogeneous catalysis; Coordination chemistry; Solid state chemistry; Biomolecular interactions; Quantum mechanics and symmetry; Kinetics; Spectroscopy; Diffraction; Photochemistry.*Course Co-ordinator:* Dr Malcolm Kadodwala**403H CHEMICAL PHYSICS 3H***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Lectures, laboratories and tutorials to be arranged.*Requirements of entry:* Physics 2X and 2Y at a grade point average of 10, Chemistry 2X and 2Y at a grade point average of 10. All normally at first diet of examinations.*Assessment:* Examinations in chemistry (42.5%) and physics (33.3%); assessment of physics laboratory/IT skills (16.7%) and chemistry laboratory (7.5%).*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of modern aspects of inorganic & physical and theoretical chemistry and of modern physics; (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in chemical physics and its applications; (3) To develop the practical skills necessary for a chemical physicist by means of individual laboratory experiments, to provide training in scientific data analysis, and to give the opportunity for the student to apply these in performing an extended project; (4) To develop the student's transferable skills, in the

writing of reports on individual project work, and in verbal communication of such results; (5) To develop the students' ability to work effectively and to reinforce their individual responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Quantum Mechanics; Heterogeneous catalysis; Coordination chemistry; Solid state chemistry; Biomolecular interactions; Quantum mechanics and symmetry; Kinetics; Spectroscopy; Diffraction; Photochemistry.*Course Co-ordinator:* Dr Malcolm Kadodwala**0TMH CHEMICAL PHYSICS 3M***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Lectures, laboratories and tutorials to be arranged.*Requirements of entry:* Physics 2X and 2Y at a grade point average of 14, Chemistry 2X and 2Y at a grade point average of 14, all normally at first diet of examination.*Assessment:* Examinations in chemistry (42.5%) and physics (33.3%); assessment of physics laboratory/IT skills (16.7%) and chemistry laboratory (7.5%).*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional chemical physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern chemical physics; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Quantum Mechanics; Heterogeneous catalysis; Coordination chemistry; Solid state chemistry; Biomolecular interactions; Quantum mechanics and symmetry; Kinetics; Spectroscopy; Diffraction; Photochemistry*Course Co-ordinator:* Dr Malcolm Kadodwala**0TLH CHEMICAL PHYSICS 3M\****Credits:* 160*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Lectures, tutorials and laboratories at times to be arranged.*Requirements of entry:* Physics 2X and 2Y at a grade point average of 14, Chemistry 2X and 2Y at a grade

point average of 14, all normally at first diet of examination.

*Assessment:* Examinations in physics and chemistry components of course (80.0%); assessment of physics laboratory/IT skills (12.5%) and chemistry laboratory (7.5%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern chemical physics at a level appropriate for a professional chemical physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern chemical physics; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Quantum Mechanics; Electromagnetism 1; Mathematical Methods 2; Heterogeneous catalysis; Coordination chemistry; Solid state chemistry; Biomolecular interactions; Quantum mechanics and symmetry; Kinetics; Spectroscopy; Diffraction; Photochemistry; Frontiers of chemistry.

*Course Co-ordinator:* Dr Malcolm Kadodwala

### **OTRN CHEMICAL PHYSICS MSCI: WORK PLACEMENT YEAR**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The placement year is the fourth year of the Chemical physics with work placement MSci degree, and lasts between 10-12 months.

*Requirements of entry:* Admission to the MSci Chemical Physics-3M\* course; selection following interview; successful external application for placement; grade B or better at level 3M\*.

*Assessment:* Oral presentation (23.5%) and project report (76.5%).

*Aims:* The placement year aims are to provide students with: Enhanced training in practical skills; Experience of alternative professional environments; Opportunities for enhancing communication skills; Opportunities for demonstrating initiative in a practical environment; First-hand experience of scientific research.

*Honours Course Prescription:* The placement year involves a project carried out in an industrial establishment or equivalent.

*Course Co-ordinator:* Dr Graeme Cooke

### **JQQW CHEMISTRY 3**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 144 lectures at 9.00 am, 10.00 am and 11.00 am. Average of 12 hours laboratory work in afternoons and 2 tutorials at 10.00 am per week.

*Requirements of entry:* Grade point average of 10 in Chemistry 2X and Chemistry 2Y

*Assessment:* Three 3-hour papers (85%) and assessment of laboratory work (15%).

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide understanding of chemistry.

*Honours Course Prescription:* Symmetry and Bonding; Organic Reactivity; Metals to Semiconductors; Structure and Properties; Bioorganic Chemistry; Advanced Inorganic Chemistry

*Course Co-ordinator:* Dr Andrew Freer

### **402H CHEMISTRY 3H**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 144 lectures at 9.00 am, 10.00 am and 11.00 am. Average of 12 hours laboratory work in afternoons and 2 tutorials at 10.00 am per week.

*Requirements of entry:* Grade D or above in Chemistry 2X and Chemistry 2Y

*Assessment:* Three 3-hour papers (85%) and assessment of laboratory work (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide and rigorous treatment of chemistry, appropriate to an aspiring professional chemist.

*Honours Course Prescription:* Symmetry and Bonding; Organic Reactivity; Metals to Semiconductors; Structure and Properties; Bioorganic Chemistry; Advanced Inorganic Chemistry

*Course Co-ordinator:* Dr Andrew Freer

### **SRPF CHEMISTRY 3H (COMBINED)**

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 72 lectures at 10.00 am and 11.00 am. Average 6 hours laboratory work in afternoons and 1 tutorial at 10.00 am per week.

*Requirements of entry:* Grade D or above in Chemistry-2X and Chemistry-2Y

*Assessment:* Three 1.5-hour papers (85%) and assessment of laboratory work (15%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level and lay foundations for a wide and rigorous treatment of selected topics of chemistry.

*Honours Course Prescription:* As for selected parts of Chemistry-3H course.

*Course Co-ordinator:* Dr Andrew Freer

## 2YGH CHEMISTRY 3M

*Credits:* 140

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 169 lectures at 9.00 am, 10.00 am, 11.00 am and other times as arranged. Average 12 hours laboratory work in afternoons and 2 tutorials per week.

*Requirements of entry:* Normally grade B in Chemistry 2X and 2Y.

*Assessment:* Three 3-hour papers (80%), essay (5%) and assessment of laboratory work (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a broadly-based education and training in all branches of Chemistry appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* Symmetry and Bonding; Organic Reactivity; Metals to Semiconductors; Structure and Properties; Bioorganic Chemistry; Advanced Inorganic Chemistry; Frontiers of Modern Chemistry

*Course Co-ordinator:* Dr Andrew Freer

## LBMF CHEMISTRY 3M (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 72 lectures at 10.00 am and 11.00 am. Average 6 hours laboratory work in afternoons and 1 tutorial at 10.00 am per week.

*Requirements of entry:* Grade B or above in Chemistry-2X and Chemistry-2Y

*Assessment:* Three 1.5-hour papers (80%), essay (5%) and assessment of laboratory work (15%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level and lay foundations for a wide and rigorous treatment of selected topics of chemistry appropriate for those who will become professional chemists.

*Honours Course Prescription:* As for selected parts of Chemistry-3M course.

*Course Co-ordinator:* Dr Andrew Freer

## 2YPW CHEMISTRY 3V BIOPHYSICAL CHEMISTRY

*Credits:* 20

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 24 lectures at 11.00 am, 50 hours laboratory work in afternoons and 8 tutorials at 10.00 am.

*Requirements of entry:* Normally a Grade Point Average of 10 in Chemistry 2X and 2Y

*Assessment:* One 1.5-hour paper (85%) and assessment of laboratory work (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To convey to the student the knowledge and understanding of the principles of the theoretical and experimental basis of intermolecular forces in complex, condensed systems and how this applies to the stabilisation of biomolecular structures and interactions; the biophysical techniques that are used to understand the structure of different classes of biological macromolecules; and the experimental techniques and theoretical background to the spectroscopic study of processes in solution, with reference to biomolecular structure and kinetics

*Course Co-ordinator:* Dr Andrew Freer

## 4NTW CHEMISTRY 3X ESSENTIAL INORGANIC CHEMISTRY

*Credits:* 20

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* All lectures at 11.00 am. Laboratories in afternoons to suit other courses.

*Requirements of entry:* Normally a Grade Point Average of 10 in Chemistry 2X and 2Y

*Excluded Courses:* Metals to Semiconductors; Inorganic/Medicinal Chemistry; Advanced Inorganic Chemistry

*Assessment:* One 1.5-hour paper (85%) and assessment of laboratory work (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To convey to the student the knowledge and understanding of the basic principles of the chemistry of the main group elements and organometallic compounds and the coordination chemistry of the transition elements.

*Course Co-ordinator:* Dr Andrew Freer

## 4PGW CHEMISTRY 3Z ORGANIC CHEMISTRY FOR BIOLOGY

*Credits:* 20

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* All lectures at 11.00 am. Laboratories in afternoons to suit other courses.

*Requirements of entry:* Normally a Grade Point Average of 10 in Chemistry 2X and 2Y

*Excluded Courses:* Essential Organic Chemistry 3, Inorganic/Medicinal Chemistry 3/Bioorganic Chemistry 3

*Assessment:* One 1.5-hour paper (15%) and assessment of laboratory work (5%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To convey to the student the knowledge and understanding of the basic principles of medicinal chemistry; the principles of retro-synthetic analysis and the range of natural products and their biosynthetic pathways.

*Course Co-ordinator:* Dr Andrew Freer

### 6MBN CHEMISTRY MSCI: WORK PLACEMENT YEAR

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The placement year is taken between L3 and L4, and lasts between 10-12 months.

*Requirements of entry:* Normally first-time passes in Chemistry 2X and 2Y at grade B or better; selection following interview; successful external application for placement; grade B or better at level 3M and acceptance for level 4M.

*Assessment:* Oral presentation (23.5%) and project report (76.5%). Assessment contributes 18.5% towards final degree mark with other assessment pro-rata for the corresponding non-placement course.

*Aims:* The placement year aims are to provide students with: Enhanced training in practical chemistry skills; Experience of alternative professional environments; Opportunities for enhancing communication skills; Opportunities for demonstrating initiative in a practical environment; First-hand experience of scientific research.

*Course Co-ordinator:* Dr Graeme Cooke

### 6LXN CHEMISTRY WITH EUROPEAN PLACEMENT MSCI: EUROPEAN PLACEMENT YEAR

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The placement year is taken between L3 and L4, and lasts between 10-12 months.

*Requirements of entry:* Normally first-time passes in Chemistry 2X and 2Y at Grade B or better; selection following interview; successful external application for placement; grade B or better at level 3M and acceptance for level 4M.

*Assessment:* Oral presentation (23.5%) and project report (76.5%). Assessment contributes 18.5% towards final degree mark with the other assessment pro-rata for the corresponding non-placement degree.

*Degree Examination taken in:* May/June

*Aims:* The placement year aims are to provide students with: Enhanced training in practical chemistry skills; Experience of alternative professional environments; Opportunities for enhancing communication skills; Opportunities for demonstrating initiative in a practical environment; First-hand experience of scientific research; Opportunities to improve language skills.

*Course Co-ordinator:* Dr Graeme Cooke

### JQTW CHEMISTRY WITH FORENSIC STUDIES 3

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 144 lectures at 9.00 am, 10.00 am, 11.00 am and other times as arranged. Average 12 hours laboratory work in afternoons and 2 tutorials per week.

*Requirements of entry:* At least grade D in Chemistry 2X and 2Y.

*Assessment:* Three 3-hour papers (85%) and assessment of laboratory work (15%).

*Aims:* To provide a broadly-based education and training in all branches of Chemistry and analytical and forensic techniques.

*Honours Course Prescription:* Mechanistic Organic Chemistry; Organic Synthesis; Controlling Stereochemistry; Reactive Intermediates; Heterogeneous catalysis; Main Group Chemistry; Co-ordination Chemistry; Organometallic Chemistry; Bio-inorganic Chemistry; Biomolecular Interactions; Quantum Mechanics and Symmetry; Kinetics; Spectroscopy; Diffraction; Analytical variability and good laboratory practice; Analysis of environmental materials; Forensic toxicology.

*Course Co-ordinator:* Dr Andrew Freer

### 0TWH CHEMISTRY WITH FORENSIC STUDIES 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 144 lectures at 9.00 am, 10.00 am, 11.00 am and other times as arranged. Average 12 hours laboratory work in afternoons and 2 tutorials per week.

*Requirements of entry:* At least grade D in Chemistry 2X and 2Y.

*Assessment:* Three 3-hour papers (85%) and assessment of laboratory work (15%).

*Aims:* To provide a broadly-based education and training in all branches of Chemistry and analytical and forensic techniques appropriate for those who will become professional chemists.

*Honours Course Prescription:* Mechanistic Organic Chemistry; Organic Synthesis; Controlling Stereochemistry; Reactive Intermediates; Heterogeneous catalysis; Main Group Chemistry; Co-ordination Chemistry; Organometallic Chemistry; Bio-inorganic Chemistry; Biomolecular Interactions; Quantum Mechanics and Symmetry; Kinetics; Spectroscopy; Diffraction; Analytical variability and good laboratory practice; Analysis of environmental materials; Forensic toxicology.

*Course Co-ordinator:* Dr Andrew Freer

### 0TUH CHEMISTRY WITH FORENSIC STUDIES 3M

*Credits:* 140

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 169 lectures at 9.00 am, 10.00 am, 11.00 am and other times as arranged. Average 12 hours laboratory work in afternoons and 2 tutorials per week.



*Requirements of entry:* Normally grade B in both Chemistry 2X and 2Y.

*Assessment:* Three 3-hour papers (80%), essay (5%) and assessment of laboratory work (15%).

*Aims:* To provide a broadly-based education and training in all branches of Chemistry and analytical and forensic techniques appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* Mechanistic Organic Chemistry; Organic Synthesis; Controlling Stereochemistry; Reactive Intermediates; Heterogeneous catalysis; Main Group Chemistry; Co-ordination Chemistry; Organometallic Chemistry; Bio-inorganic Chemistry; Biomolecular Interactions; Quantum Mechanics and Symmetry; Kinetics; Spectroscopy; Diffraction; Analytical variability and good laboratory practice; Analysis of environmental materials; Forensic toxicology; Frontiers of chemistry.

*Course Co-ordinator:* Dr Andrew Freer

### **OUKN CHEMISTRY WITH FORENSIC STUDIES MSCI: WORK PLACEMENT YEAR**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The placement year is the fourth year of the Chemistry with Forensic Studies with Work Placement MSci degree, and lasts between 10-12 months.

*Requirements of entry:* Admission to the MSci Chemistry with Forensic Studies-3M course; selection following interview; successful external application for placement; normally grade B or better at level 3M.

*Assessment:* Oral presentation (23.5%) and project report (76.5%).

*Aims:* The placement year aims are to provide students with: Enhanced training in practical skills; Experience of alternative professional environments; Opportunities for enhancing communication skills; Opportunities for demonstrating initiative in a practical environment; First-hand experience of scientific research.

*Honours Course Prescription:* The placement year involves a project carried out in an industrial establishment or equivalent.

*Course Co-ordinator:* Dr Graeme Cooke

### **JQSW CHEMISTRY WITH MEDICINAL CHEMISTRY 3**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 144 lectures at 9.00 am, 10.00 am and 11.00 am. Average of 12 hours laboratory work in afternoons and 2 tutorials at 10.00 am per week.

*Requirements of entry:* Grade D or above in Chemistry 2X and Chemistry 2Y

*Assessment:* Three 3-hour papers (85%) and assessment of laboratory work (15%).

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide understanding of Chemistry with Medicinal Chemistry.

*Honours Course Prescription:* Biophysical; Organic Reactivity; Metals to Semiconductors; Structure and Properties; Bio-organic Chemistry; Bio-inorganic/Medicinal Chemistry

*Course Co-ordinator:* Dr Andrew Freer

### **4M7H CHEMISTRY WITH MEDICINAL CHEMISTRY 3H**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 144 lectures at 9.00 am, 10.00 am and 11.00 am. Average of 12 hours laboratory work in afternoons and 2 tutorials at 10.00 am per week.

*Requirements of entry:* Grade D or above in Chemistry 2X and Chemistry 2Y

*Assessment:* Three 3-hour papers (85%) and assessment of laboratory work (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide and rigorous treatment of Chemistry with Medicinal Chemistry, appropriate to an aspiring professional chemist.

*Honours Course Prescription:* Biophysical; Organic Reactivity; Metals to Semiconductors; Structure and Properties; Bio-organic Chemistry; Bio-inorganic/Medicinal Chemistry

*Course Co-ordinator:* Dr Andrew Freer

### **2YHH CHEMISTRY WITH MEDICINAL CHEMISTRY 3M**

*Credits:* 140 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 169 lectures at 9.00 am, 10.00 am 11.00 am and other times as arranged. Average 12 hours laboratory work in afternoons and 2 tutorials per week.

*Requirements of entry:* Normally grade B in Chemistry 2X and 2Y.

*Assessment:* Three 3-hour papers (80%), essay (5%) and assessment of laboratory work (15%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a broadly-based education and training in all branches of Chemistry with Medicinal Chemistry appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* Biophysical; Organic Reactivity; Metals from Biology to Semiconductors;

Structure and Properties; Bio-organic Chemistry; Bio-inorganic/Medicinal Chemistry; Frontiers of Modern Chemistry

*Course Co-ordinator:* Dr Andrew Freer

### **6LYN CHEMISTRY WITH MEDICINAL CHEMISTRY MSCI: EUROPEAN PLACEMENT YEAR**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The placement year is taken between L3 and L4, and lasts between 10-12 months.

*Requirements of entry:* Normally first-time passes in Chemistry 2X and 2Y at grade B or better; selection following interview; successful external application for placement; grade B or better at level 3M and acceptance for 4M.

*Assessment:* Oral presentation (23.5%) and project report (76.5%). Assessment contributes 18.5% towards final degree mark with other assessment pro-rata for the corresponding non-placement course.

*Degree Examination taken in:* May/June

*Aims:* The placement year aims are to provide students with: Enhanced training in practical chemistry skills; Experience of alternative professional environments; Opportunities for enhancing communication skills; Opportunities for demonstrating initiative in a practical environment; First-hand experience of scientific research; Opportunities to improve language skills.

*Course Co-ordinator:* Dr Graeme Cooke

### **6MAN CHEMISTRY WITH MEDICINAL CHEMISTRY MSCI:WORK PLACEMENT YEAR**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The placement year is taken between L3 and L4, and lasts between 10-12 months.

*Requirements of entry:* Normally first-time passes in Chemistry 2X and 2Y at Grade B or better; selection following interview; successful external application for placement; grade B or better at level 3M and acceptance for level 4M.

*Assessment:* Oral presentation (23.5%) and project report (76.5%). Assessment contributes 18.5% towards final degree mark with other assessment pro-rata for the corresponding non-placement course..

*Aims:* The placement year aims are to provide students with: Enhanced training in practical chemistry skills; Experience of alternative professional environments; Opportunities for enhancing communication skills; Opportunities for demonstrating initiative in a practical environment; First-hand experience of scientific research.

*Course Co-ordinator:* Dr Graeme Cooke

### **8K1H ENVIRONMENTAL BIOGEOCHEMISTRY 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* GPA of 11 at end of Level 2 Earth Science; Completion of all credit-bearing Earth Science courses from Level 2 at Grade D or better. Environmental Chemistry 2A and 2B, at Grade D or better.

*Excluded Courses:* N/A

*Assessment:* Chemistry - Lab work (12.5%), Mid session examination (12.5%), end of session examination - two papers (25%). Geology - Theory and practical examination (50%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide and rigorous treatment of Environmental Biogeochemistry, appropriate to an aspiring professional environmental biogeochemist.

*Course Co-ordinator:* Dr Ian Pulford

### **JQVW ENVIRONMENTAL CHEMISTRY 3**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: 10.00 am and 11.00 am Monday, Tuesday, Thursday, Friday; Laboratories: 2.00-5.00 pm Tuesday and Thursday; Field trips to be arranged.

*Requirements of entry:* Normally grade D in both Environmental Chemistry 2A and 2B or Chemistry 2Y and 2X

*Assessment:* Laboratory work (20%); Project and field work (20%); Degree examination - four papers (60%).

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a general treatment of Environmental Chemistry, appropriate to an aspiring professional environmental chemist.

*Honours Course Prescription:* Taught every year: Analysis of Environmental Materials (inorganic), Analysis of Environmental Materials (chromatographic), Radiochemical Analysis, Experimental Skills, Pesticides. Taught in alternate years: Organic Waste Materials, Chemistry of Soil Processes, Industrial Crops, Pesticides A. or Reclamation of Contaminated and Derelict Land, Carbon and Nitrogen Cycling in the Environment, Pesticides B, Movement of Chemicals in the Environment.

*Course Co-ordinator:* Dr Ian Pulford

### **7M6H ENVIRONMENTAL CHEMISTRY 3H**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: 10.00 am and 11.00 am Monday, Tuesday, Thursday, Friday; Laboratories: 2.00-5.00 pm Tuesday and Thursday; Field trips to be arranged.

*Requirements of entry:* Normally grade D in both Environmental Chemistry 2A and 2B or Chemistry 2Y and 2X

*Assessment:* Laboratory work (20%); Project and field work (20%); Degree examination - four papers (60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide and rigorous treatment of Environmental Chemistry, appropriate to an aspiring professional environmental chemist.

*Honours Course Prescription:* Taught every year: Analysis of Environmental Materials (inorganic), Analysis of Environmental Materials (chromatographic), Radiochemical Analysis, Experimental Skills, Pesticides. Taught in alternate years: Organic Waste Materials, Chemistry of Soil Processes, Industrial Crops, Pesticides A. or Reclamation of Contaminated and Derelict Land, Carbon and Nitrogen Cycling in the Environment, Pesticides B, Movement of Chemicals in the Environment.

*Course Co-ordinator:* Dr Ian Pulford

### 5YTH ENVIRONMENTAL CHEMISTRY AND GEOGRAPHY 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Year 3: Monday 10.00; Monday 11.00 (weeks 1-10); Tues, Thurs, Fri 10.00 (weeks 1-15); Tues, Thurs 9.00 (weeks 1-10). Option course during semester 2: Mon/Wed/Thurs 11.00-1.30; Tues. Wed. Thurs. 14.00-17.00 (weeks 1-10), Easter Vacation Field Work semester 2 field work 6 days. Year 4: Tues, Thurs, Fri 10.00 (weeks 1-15); Mon 10.00 (weeks 1-10); Mon 12.00 (weeks 1-10); Tues 11.00 (weeks 1-10). 2 option courses (semester 2) Dissertation fieldwork as scheduled; Laboratory project as scheduled.

*Requirements of entry:* Normally Environmental Chemistry 2A - D; Environmental Chemistry 2B - D; Geography 2 C; Exceptionally Geography 2 high D.

*Assessment:* Chemistry (Environmental) Third Year: Jun 3 hr exam 6; Jun 3 hr exam 9; Continuous assessment 13; Final Year: Jun 1.5 hr exam 6; Jun 2 hr exam 9; Jun 1.5 hr essay paper 6; Project 27. Geography: Third Year Jun 3 hr exam 18; Continuous assessment field work project 13; Laboratory continuous assessment 9; Final Year: Jun. 3 hr exam plus continuous assessment 18; Jun 3 hr exam plus continuous assessment 18; Jun 1.5 hr essay paper 6. Dissertation 18.

*Degree Examination taken in:* May/June

*Aims:* This degree course, taught jointly by the Chemistry (environmental) and Geographical and Earth Sciences Departments, will provide an integrated approach to the physical environment via an appreciation of the structure of surface environments, their dynamics and their management for the sustainable use of their re-

sources. The degree course will give students specific experience in, and an understanding of, the landforming processes and resources of surface environments and the ways in which these have changed in the past and may change in the future (eg polar, coastal, fluvial, glacial, arid); and the sustainable use of environments. This programme of work aims to: stimulate an appreciation in the student of the importance of the surface environment; equip the student with a fundamental understanding of the nature and functioning of the surface environment and the effects of anthropogenic activity on it; provide the student with an advanced level of training, laboratory skills, field skills and critical assessment which allows them to gain employment in the broad area of the environmental industry.

*Honours Course Prescription:* Selected parts of Environmental Chemistry 3H/4H and Geography 3H/4H courses.

*Course Co-ordinator:* Dr Ian Pulford

### 5KXW GEOGRAPHY, CHEMISTRY AND THE ENVIRONMENT 3

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday - 10.00; Monday - 11.00 (weeks 1-10); Tues, Thurs, Fri - 10.00 (weeks 1-15); Tues, Thurs - 9.00 (weeks 1-10); Option course during semester 2: Mon/Wed/Thurs - 11.00-13.00; Tues, Wed, Thurs - 14.00-17.00 (weeks 1-10); Easter vacation field work; field work 6 days.

*Requirements of entry:* Normally, Environmental Chemistry 2A - D; Environmental Chemistry 2B - D; Geography 2 - D.

*Assessment:* Chemistry (Environmental): Third Year Jun 3 exam 8; Jun 3 hr exam 12; continuous assessment 19; total 55. Geography: Jun 3 hr exam 21, plus continuous assessment, field project: 12; laboratory continuous assessment 12; total 45.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims to provide an integrated approach to the physical environment giving students specific experience in, and an understanding of, the landforming processes and resources of surface environments and the ways in which these have changed in the past and may change in the future (eg polar, coastal, fluvial, glacial, arid); the chemical processes within the surface environment; pollution sources and remediation; and the sustainable use of environments. In addition students will gain transferable skills throughout the course and in particular in the Geographical Techniques and Experimental Design and Data Handling courses: IT skills; presentational skills; group and individual working; chemical analysis; laboratory safety; experimental design, data handling and presentation; field working.

*Course Co-ordinator:* Dr Ian Pulford

### 403J CHEMICAL PHYSICS 4H (BSC)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, tutorials and laboratories as arranged.

*Requirements of entry:* Grade A-D pass in Chemical Physics 3H at the preceding May/June examination diet.

*Assessment:* Examinations in chemistry and physics components (79.2%); Physics level 3 laboratory assessment (8.3%); project (12.5%).

*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of modern aspects of inorganic & physical and theoretical chemistry and of modern physics; (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in chemical physics and its applications; (3) To develop the practical skills necessary for a chemical physicist by means of individual laboratory experiments, to provide training in scientific data analysis, and to give the opportunity for the student to apply these in performing an extended project; (4) To develop the student's transferable skills, in the writing of reports on individual project work, and in verbal communication of such results; (5) To develop the students' ability to work effectively and to reinforce their individual responsibility for their own learning.

*Honours Course Prescription:* Chemistry: Collids and macromolecules; Thermodynamics; Surface science; Inorganic mechanisms; Homogeneous catalysis; Molecular recognition; simple fluorides; Electrochemistry; Biomolecular separations. Physics: Electromagnetism 1; two from the following: Solid State; Nuclear and Particle Physics; Atomic Systems; 1 option from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics. (Some options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Dr Malcolm Kadodwala

### 0TNJ CHEMICAL PHYSICS 4M

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, tutorials and laboratories as arranged.

*Requirements of entry:* Grade A-D pass at 3M Chemical Physics normally at the May/June examination diet.

*Assessment:* Examinations corresponding to the chemistry and physics course components (100%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern chemical physics at a level appropriate for a professional chemical physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern chemical physics; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry,

and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Chemistry: Frontiers of chemistry; Colloids & Macromolecules; Thermodynamics; Surface Science; Inorganic Mechanisms; Homogeneous Catalysis; Processing Chemical Data; Heterogeneous Catalysis; Physical Chemistry of Polymers; Molecular Simulation. Physics: Electromagnetism 1; Mathematical Methods 2. Two from list: Solid State; Nuclear and Particle Physics; Atomic Systems. 1 option from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics. (Some options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Dr Malcolm Kadodwala

### 0TPJ CHEMICAL PHYSICS 4M\*

*Credits:* 160

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, tutorials and laboratories as arranged.

*Requirements of entry:* Grade A-D pass at 3M\* Chemical Physics normally at the May/June examination diet.

*Assessment:* Examinations in chemistry and physics components; (83.3%); Physics level 3 laboratory assessment (5.6%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern chemical physics at a level appropriate for a professional chemical physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern chemical physics; (3) To provide further training and experience in the principles and practice of physical and chemical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Chemistry: Colloids & Macromolecules; Thermodynamics; Surface Science; Inorganic Mechanisms; Homogeneous Catalysis; Processing Chemical Data; Heterogeneous Catalysis; Physical Chemistry of Polymers; Molecular Simulation; Molecular Recognition; Metal Oxides as Advanced Materials;

Simple Fluorides - Reactivity and Catalysis; Electrochemistry; Biomolecular Separations; Vibrational Spectroscopy; Applications of Synchrotron Radiation; Molecular Magnetism; Modern Techniques in Surface Science Physics: 2 options from the list: Solid State; Nuclear and Particle Physics; Atomic Systems; 2 options from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 2 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr Malcolm Kadodwala

### OTQJ CHEMICAL PHYSICS 5M

*Credits:* 80

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, tutorials and laboratories as arranged.

*Requirements of entry:* Grade A-D pass at 4M Physics (single) at May/June examination diet.

*Assessment:* Examinations in chemistry and physics components; (83.3%); Physics level 3 laboratory assessment (5.6%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern chemical physics at a level appropriate for a professional chemical physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern chemical physics; (3) To provide further training and experience in the principles and practice of physical and chemical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Chemistry: Molecular Recognition; Metal Oxides as Advanced Materials; Simple Fluorides - Reactivity and Catalysis; Electrochemistry; Biomolecular Separations; Vibrational Spectroscopy; Applications of Synchrotron Radiation; Molecular Magnetism; Modern Techniques in Surface Science. Physics: 1 option from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 2 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Mi-

croanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. (Some options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Dr Malcolm Kadodwala

### OTSJ CHEMICAL PHYSICS 5M\* (WP)

*Credits:* 160

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, tutorials and laboratories as arranged.

*Requirements of entry:* Grade A-D pass at 3M\* Chemical Physics normally at the May/June examination diet.

*Assessment:* Examinations in chemistry and physics components (61.4%); M project (6.8%); third year physics laboratory (4.5%); work placement year (27.3%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern chemical physics at a level appropriate for a professional chemical physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern chemical physics; (3) To provide further training and experience in the principles and practice of physical and chemical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Chemistry: Colloids & Macromolecules; Thermodynamics; Surface Science; Inorganic Mechanisms; Homogeneous Catalysis; Processing Chemical Data; Heterogeneous Catalysis; Physical Chemistry of Polymers; Molecular Simulation; Molecular Recognition; Metal Oxides as Advanced Materials; Simple Fluorides - Reactivity and Catalysis; Electrochemistry; Biomolecular Separations; Vibrational Spectroscopy; Applications of Synchrotron Radiation; Molecular Magnetism; Modern Techniques in Surface Science Physics: 2 options from the list: Solid State; Nuclear and Particle Physics; Atomic Systems; 2 options from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 1 option from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr Malcolm Kadodwala

**0TJJ CHEMICAL PHYSICS M PROJECT***Credits:* 40 *Level:* 4*When Taught:* Full Session (September - June)*Timetable:* At times to be arranged with supervisors*Requirements of entry:* Grade A - D pass at 3M\* or 4M Chemical Physics at May/June examination diet.*Assessment:* Project report (100%)

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern aspects of inorganic & physical and theoretical chemistry and of modern physics at a level appropriate for a professional chemical physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and chemistry; (3) To develop the practical skills necessary for a professional chemical physicist by means of individual laboratory experiments, using advanced instrumentation where appropriate; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing, writing a report on and making a presentation about an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Project comprises technical essay, project work, report and poster or oral presentation.

*Course Co-ordinator:* Dr Malcolm Kadodwala

**402J CHEMISTRY 4H***Credits:* 120 *Level:* 4*When Taught:* Full Session (September - June)*Timetable:* 136 lectures; Research project, 15 weeks. (20 hours per week); Tutorials (29 hours).*Requirements of entry:* Grade D or better in Chemistry 3H

*Assessment:* Four 3-hour papers (72.7%); thesis (18.2%); carry-over of marks from 3H (9.1%); oral at discretion of examiners.

*Degree Examination taken in:* May/June

*Aims:* To provide students with a broad scientific education at tertiary level, together with a wide and rigorous treatment of Chemistry, appropriate for an aspiring professional chemist.

*Honours Course Prescription:* Molecular Spectroscopy; Colloids and macromolecules; Surface Science; Main Group Organometallics; Reactivity of Organometallics; Heterogeneous Catalysis; Organic Synthesis; Heterocyclic Systems. Options from: Statistical Thermodynamics; Modern Molecular Calculations; Laser Spectroscopy; Protein Structures - Design & Engineering; Chirality; Homogeneous Catalysis; Simple Fluorides - Reactivity & Catalysis; Solid State Chemistry; Anti-Cancer Drugs; Modern Synthetic Methods; Asymmetric Synthesis; Enzymes.

*Course Co-ordinator:* Dr Louis Farrugia

**8RQG CHEMISTRY 4H (COMBINED)***Credits:* 60 *Level:* 4*When Taught:* Full Session (September - June)*Timetable:* 68 lectures; Research project 15 weeks (10 hours per week); Tutorials 15 hours.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level, together with a wide and rigorous treatment of selected topics of chemistry.

*Honours Course Prescription:* As for selected parts of the Chemistry-4H full course.

*Course Co-ordinator:* Dr Louis Farrugia

**2YGJ CHEMISTRY 4M***Credits:* 160 *Level:* 4*When Taught:* Full Session (September - June)*Timetable:* 160 lectures; Research project, 20 weeks (20 hours per week); 29 tutorials as arranged.*Requirements of entry:* Normally grade B in Chemistry 3M.

*Assessment:* Carry over from 3M (6.6%); essays (8%); five 3 hour papers (66.7%); research project (13.3%) and oral presentation (5.3%).

*Degree Examination taken in:* May/June

*Aims:* To provide a broadly-based education and training in all branches of advanced Chemistry appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* Molecular Spectroscopy; Colloids and macromolecules; Surface Science; Main Group Organometallics; Reactivity of Organometallics; Heterogeneous Catalysis; Organic Synthesis; Heterocyclic Systems. Options from: Statistical Thermodynamics; Modern Molecular Calculations; Laser Spectroscopy; Protein Structures - Design & Engineering; Chirality; Homogeneous Catalysis; Simple Fluorides - Reactivity & Catalysis; Solid State Chemistry; Anti-Cancer Drugs; Modern Synthetic Methods; Asymmetric Synthesis; Enzymes.

*Course Co-ordinator:* Dr Louis Farrugia

**LBLG CHEMISTRY 4M (COMBINED)***Credits:* 60 *Level:* 4*When Taught:* Full Session (September - June)*Timetable:* 88 lectures; Research project, 9 weeks (20 hours per week); 20 tutorials as arranged.*Requirements of entry:* Normally grade B in Chemistry 3M (combined).

*Assessment:* Essay (4%); five 1.5-hour papers (75%); Research project (15%) and oral presentation (6%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a broadly-based education and training in all branches of advanced chemistry appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* As for selected parts of the Chemistry 4M course with a balance of organic, inorganic and physical chemistry

*Course Co-ordinator:* Dr Louis Farrugia

### OTXH CHEMISTRY WITH FORENSIC STUDIES 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 112 lectures; Research project, 16 weeks (20 hours per week); 29 tutorials as arranged.

*Requirements of entry:* Normally grade D in Chemistry with Forensic Studies 3H.

*Assessment:* Carry over from 3H (7.7%); Examinations (76.9%); research project (15.4%).

*Aims:* To provide a broadly-based education and training in all branches of advanced Chemistry and analytical and forensic techniques appropriate for those who will become professional chemists.

*Honours Course Prescription:* Spectroscopic Techniques; Heterocyclic Systems; Advanced Organic Synthesis; Colloids & Macromolecules; Thermodynamics; Nanoscience; Reactivity of Transition Metal Organometallic Compounds; Inorganic Mechanisms; Homogeneous catalysis; Options from list in course handbook including Forensic and Analytical options; Project on a topic relating to Forensic or Analytical Chemistry.

*Course Co-ordinator:* Dr Louis Farrugia

### 0UGJ CHEMISTRY WITH FORENSIC STUDIES 4M

*Credits:* 160

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 168 lectures; Research project, 20 weeks (20 hours per week); 29 tutorials as arranged.

*Requirements of entry:* Normally at least grade B in Chemistry with Forensic Studies 3M.

*Assessment:* Carry over from 3M (5.6%); work placement assessment (19.1%); essay (3.4%); examinations (56.2%); research project (11.2%) and oral presentation (4.5%).

*Aims:* To provide a broadly-based education and training in all branches of advanced Chemistry and analytical and forensic techniques appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* Heterocyclic Systems; Pericyclic Reactions; Advanced Organic Synthesis; Colloids & Macromolecules; Thermodynamics; Nanoscience; Reactivity of Transition Metal Organometallic Compounds; Inorganic Mechanisms; Homogeneous catalysis; Processing Chemical Data; Heterogeneous Catalysis; Advanced Retrosynthesis; Inorganic Supramolecular Chemistry; Physical Chemistry of Polymers; Asymmetric Synthesis; Molecular Simulation; Metals in Medicine; Enzyme Catalysis in Organic Reactions; Options from list in course handbook including Forensic and Analytical options; Project on a topic relating to Forensic or Analytical Chemistry.

*Course Co-ordinator:* Dr Louis Farrugia

### 4M7J CHEMISTRY WITH MEDICINAL CHEMISTRY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 136 lectures; Research project, 15 weeks. (20 hours per week); Tutorials (29 hours).

*Requirements of entry:* Grade D or better in Chemistry with Medicinal Chemistry 3H

*Assessment:* Three 3-hour papers and 2 one and a half hour papers (72.7%); thesis (18.2%); carry-over of marks from 3H (9.1%); oral at discretion of examiners.

*Degree Examination taken in:* May/June

*Aims:* To provide students with a broad scientific education at tertiary level, together with a wide and rigorous treatment of Chemistry with Medicinal Chemistry, appropriate for an aspiring professional chemist.

*Honours Course Prescription:* Pharmacology; Medicinal Chemistry; Organic Synthesis I; Industrial Medicinal Chemistry; Aromatic Systems; Reactivity of Organometallics; Biophysical Chemistry; Organic Synthesis II. Options from: Statistical Thermodynamics; Chem/Pharmacology of Anti-Cancer Drugs; Chirality; Simple Fluorides - Reactivity & Catalysis; CNS Pharmacology - Neurotransmitters and Disease; Protein Structures - Design & Engineering; Modern Synthetic Methods; Solid State Chemistry - Materials & Microstructure; Laser Spectroscopy; Asymmetric Synthesis; Homogeneous Catalysis; Modern Molecular Calculations; Enzymes in Organic Chemistry

*Course Co-ordinator:* Dr Louis Farrugia

### 2YHJ CHEMISTRY WITH MEDICINAL CHEMISTRY 4M

*Credits:* 160

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 160 lectures; Research project, 20 weeks (20 hours per week); 29 tutorials as arranged.

*Requirements of entry:* Normally grade B in Chemistry with Medicinal Chemistry 3M.

*Assessment:* Carry over from 3M (6.7%); essay (4%); five 3-hour papers (66.7%); Research project (13.3%) and oral presentation (5.3%).

*Degree Examination taken in:* May/June

*Aims:* To provide a broadly-based education and training in all branches of advanced chemistry with medicinal chemistry appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* Pharmacology; Medicinal Chemistry; Organic Synthesis I; Industrial Medicinal Chemistry; Aromatic Systems; Reactivity of Organometallics; Biophysical Chemistry; Organic Synthesis II. Options from: Statistical Thermodynamics; Chem/Pharmacology of Anti-Cancer Drugs; Chirality; Simple Fluorides - Reactivity & Catalysis; CNS Pharmacology - Neurotransmitters and Disease; Protein Structures - Design & Engineering; Modern Synthetic Methods; Solid State Chemistry - Materials & Microstructure; Laser Spectroscopy; Asymmetric Synthesis; Homogeneous Catalysis; Modern Molecular Calculations; Enzymes in Organic Chemistry

*Course Co-ordinator:* Dr Louis Farrugia

### **8K1J ENVIRONMENTAL BIOGEOCHEMISTRY 4H**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Level 3 Environmental Biogeochemistry at Grade D or better

*Co-requisites:* N/A

*Excluded Courses:* N/A

*Assessment:* Chemistry - Level 3 carry over (20%), Project (10%), Degree papers 1-3 (20%) Geology - Level 3 carry over (20%), Project and Fieldwork (10%), Degree papers (20%).

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide and rigorous treatment of advanced Environmental Biogeochemistry, appropriate to an aspiring professional environmental biogeochemist.

*Honours Course Prescription:* Selected parts of Environmental Chemistry 4H and Earth Science 4H.

*Course Co-ordinator:* Dr Ian Pulford

### **7M6J ENVIRONMENTAL CHEMISTRY 4H**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade D or better in Environmental Chemistry 3H

*Assessment:* The Final Year assessment is based on a 30% carry over from level 3, one Final Year project and 4 Final Year examination papers. Level 3 carry over (30%), Project (30%), Degree papers 1-4 (40%).

*Degree Examination taken in:* May/June

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide and rigorous treatment of Environmental Chemistry, appropriate to an aspiring professional environmental chemist. Also to provide its graduates with a highly marketable skills in the chemical analysis of environmental materials.

*Honours Course Prescription:* Taught every year: Atmospheric Pollution, Water pollution, Radionuclides in the Environment, Stable Isotopes in Environmental Studies. Taught in alternate years: Organic Waste Materials, Chemistry of Soil Processes, Industrial Crops, Pesticides A. or Reclamation of Contaminated and Derelict Land, Carbon and Nitrogen Cycling in the Environment, Pesticides B, Movement of Chemicals in the Environment.

*Course Co-ordinator:* Dr Ian Pulford

### **1BDJ ENVIRONMENTAL CHEMISTRY 4M**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Normally grade B or better in Environmental Chemistry 3H

*Assessment:* The Final Year assessment is based on a 30% carry over from level 3, one Final Year project and 3 Final Year examination papers. Level 3 carry over (30%), Project (30%), Degree papers 1-4 (40%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide students with a broad scientific education at tertiary level and lay the foundations for a wide and rigorous treatment of Environmental Chemistry, appropriate to an aspiring professional environmental chemist. Also to provide its graduates with a highly marketable skills in the chemical analysis of environmental materials. Students on this course subsequently complete a work placement year.

*Honours Course Prescription:* Taught every year: Atmospheric Pollution, Water pollution, Radionuclides in the Environment, Stable Isotopes in Environmental Studies. Taught in alternate years: Organic Waste Materials, Chemistry of Soil Processes, Industrial Crops, Pesticides A. or Reclamation of Contaminated and Derelict Land, Carbon and Nitrogen Cycling in the Environment, Pesticides B, Movement of Chemicals in the Environment.

*Course Co-ordinator:* Dr Ian Pulford

### **9FVN ENVIRONMENTAL CHEMISTRY WITH WORK PLACEMENT (WP YEAR)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Length and timing of work placements vary. Normally 9 - 10 months.

*Degree Examination taken in:* August/September



*Aims:* The placement year aims are to provide students with: Enhanced training in practical environmental chemistry skills; Experience of alternative professional environments; Opportunities for enhancing communication skills; Opportunities for demonstrating initiative in a practical environment; First-hand experience of scientific research.

*Honours Course Prescription:* Work placement with various companies involving environmental and analytical chemistry

*Course Co-ordinator:* Dr Ian Pulford

### LBNG CHEMISTRY 5M (COMBINED)

*Credits:* 60 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* 88 lectures; Research project, 9 weeks (20 hours per week); 20 tutorials as arranged.

*Requirements of entry:* Normally grade B in Chemistry 4M (combined).

*Assessment:* Carry forward from years 3 (14%) and 4 (28%); essay (4%); five 1.5-hour papers (35%); Research project (14%) and oral presentation (6%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a broadly-based education and training in all branches of advanced chemistry appropriate for those who will become professional chemists working probably in a research environment, together with specialisations in areas of the subject where significant advances and developments are currently being made, with enhancement of professional skills.

*Honours Course Prescription:* As for selected parts of the Chemistry 4M course with a balance of organic, inorganic and physical chemistry

*Course Co-ordinator:* Dr Louis Farrugia

## Classics

### KXVU CLASSICAL CIVILISATION 1A: EARLY GREECE, FROM TROY TO PLATAEA, 776-479 B.C.

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday, Thursday and Friday at 3pm; and eight tutorials

*Requirements of entry:* None

*Co-requisites:* None

*Assessment:* Two essays (20% each), end of course examination (60%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course will provide the opportunity for students 1. To receive an introduction to the literature, history, and material and intellectual culture of Greece in the period 776-479 B.C. 2. To explore the range of source material available for the study of this period and a variety of methodologies appropriate to its use.

*Course Co-ordinator:* Dr Ronald Knox

### KZLU CLASSICAL CIVILISATION 1B: REPUBLICAN ROME, 220-19 B.C.

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Thursday and Friday at 3pm; and eight tutorials

*Requirements of entry:* None

*Co-requisites:* None

*Assessment:* Two essays (20% each), end of course examination (60%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course will provide the opportunity for students 1. To receive an introduction to the literature, history and material and intellectual culture of Rome in the period 220-19 B.C. 2. To explore the range of source material available for the study of this period and a variety of methodologies appropriate to its use.

*Course Co-ordinator:* Prof Catherine Steel

### 116B GREEK 1A

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday, Tuesday, Thursday, Friday - at 11 am

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* New Testament Greek 1 456U; Greek 1A (1999-2000)

*Assessment:* Two class tests (20% each), end of course examination (60%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to the language of classical Greece

*Course Co-ordinator:* Mrs Linda Knox

### 2HHU GREEK 1B

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Tuesday, Thursday, Friday - at 11 am

*Requirements of entry:* Satisfactory completion of Greek 1A, or at the discretion of the Head of Department

*Co-requisites:* None

*Excluded Courses:* Greek 1B (1999-2000).

*Assessment:* Two class tests (20% each), end of course examination (60%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To advance your understanding of the language of classical Greece

*Course Co-ordinator:* Mrs Linda Knox

**2HLU LATIN 1A: BEGINNING LATIN**

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 1 (September - January)  
*Timetable:* Daily - 9.00 am; lectures and weekly tutorials.  
*Requirements of entry:* None  
*Co-requisites:* None  
*Excluded Courses:* 2HNU Latin 1C  
*Assessment:* Two class tests (20% each), end of course examination (60%)  
*Degree Examination taken in:* January  
*Resit Examination taken in:* August/September  
*Aims:* To introduce students to the grammar and syntax of the Latin language and to lay the basis for the acquisition of necessary vocabulary.  
*Course Co-ordinator:* Prof Catherine Steel

**2HMU LATIN 1B: READING LATIN**

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 2 (January - June)  
*Timetable:* Daily 9.00 am  
*Requirements of entry:* Satisfactory completion of Latin 1A, or at the discretion of the Head of Department  
*Co-requisites:* None  
*Excluded Courses:* 2HPU Latin 1D  
*Assessment:* Two class tests (20% each), end of course examination (60%)  
*Degree Examination taken in:* May/June  
*Resit Examination taken in:* August/September  
*Aims:* To improve your grasp of the language and develop your skills in the reading of Latin; to understand the aims, background and subject-matter of the prescribed classical authors.  
*Course Co-ordinator:* Prof Catherine Steel

**2HNU LATIN 1C: INTRODUCTORY READING OF LATIN**

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 1 (September - January)  
*Timetable:* Daily 9.00 am  
*Requirements of entry:* SCE Higher Level or equivalent  
*Co-requisites:* None  
*Excluded Courses:* 2HLU Latin 1A.  
*Assessment:* Two class tests (20% each), end of course examination (60%)  
*Degree Examination taken in:* January  
*Resit Examination taken in:* August/September  
*Aims:* To develop your ability in reading Latin authors, with due attention to grammar, style and vocabulary, and to understand the aims, background and subject matter of chosen authors  
*Course Co-ordinator:* Prof Roger Green

**2HPU LATIN 1D: READING LATIN (ADVANCED)**

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 2 (January - June)  
*Timetable:* Daily - 9.00 am  
*Requirements of entry:* Satisfactory completion of Latin 1C, or at the discretion of the Head of Department  
*Co-requisites:* None  
*Excluded Courses:* 2HMU Latin 1B  
*Assessment:* Two class tests (20% each), end of course examination (60%)  
*Degree Examination taken in:* May/June  
*Resit Examination taken in:* August/September  
*Aims:* To develop your skills in the reading of Latin and improve your grasp of the language; to understand the aims, background and subject matter of the prescribed authors.  
*Course Co-ordinator:* Prof Roger Green

**7XKV CLASSICAL CIVILISATION 2A: GREEK & ROMAN EPIC & DRAMA**

*Credits:* 20 *Level:* 2  
*When Taught:* Semester 1 (September - January)  
*Timetable:* Tuesday, Wednesday and Thursday at 1pm; and fortnightly tutorials  
*Requirements of entry:* Grade D or above in one of the following: Classical Civilisation 1A; Classical Civilisation 1B; Classical Greek Civilisation 1 (DACE Module 1 or 2); Latin 1A, 1B, 1C, 1D, Greek 1A, 1B or a course in level 1 in Archaeology, Civil Law, or Religion.  
*Co-requisites:* None  
*Excluded Courses:* This course (Classical Civilisation 2A, 2002 onwards) may not be combined with 2GRU Classical Civilisation 1A (2000-1 or earlier), or with 3YRV Classical Civilisation 2B (2001-2 or earlier)  
*Assessment:* Two essays (20% each), end of course examination (60%)  
*Degree Examination taken in:* January  
*Resit Examination taken in:* August/September  
*Aims:* 1. To introduce students to influential works of the two major areas of literary culture in ancient Greece and Rome, epic and drama. 2. To explore the development of epic and drama as literary genres in Greece and Rome. 3. To encourage students to understand works of literature and art in the historical, cultural, and intellectual context in which they were produced.  
*Course Co-ordinator:* Dr Julia Shear

**7XLV CLASSICAL CIVILISATION 2B: CONFLICT AND CHANGE IN ANCIENT GREECE AND ROME**

*Credits:* 20 *Level:* 2  
*When Taught:* Semester 2 (January - June)  
*Timetable:* Tuesday, Wednesday and Thursday at 1pm; and fortnightly tutorials

*Requirements of entry:* Grade D or above in any one of the following: Classical Civilisation 1A; Classical Civilisation 1B; Classical Greek Civilisation 1 (DACE Module 1 or 2); Latin 1A, 1B, 1C, 1D, Greek 1A, 1B, or a course at level 1 in Archaeology, Civil Law or Religion.

*Co-requisites:* None

*Excluded Courses:* 3YRV Classical Civilisation 2B (2001-2 and earlier).

*Assessment:* Two essays (20% each), end of course examination (60%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* 1. To introduce students to a range of different kinds of ancient political writing, including historiography and oratory; 2. To explore the nature of conflict, both external and internal, in Greece and in republican Rome; 3. To explore the variety of ancient constitutions and political practices, and the interrelationships between political theory and behaviour on the one hand and historical change (including social and cultural change) on the other, with special reference to archaic Greece, the rise of Macedon, and republican Rome; 4. To enable students to understand political texts in their historical and literary contexts.

*Course Co-ordinator:* Dr Ian Ruffell

### 7FDV GREEK 2A

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday, Tuesday, Thursday and Friday - 10.00 am

*Requirements of entry:* D grade in Greek 1B, but a student having previous knowledge of Greek judged sufficient by the Head of Department may be admitted direct to 2A

*Co-requisites:* None

*Assessment:* Two class tests (20% each), one essay (20%), end of course examination (40%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To enlarge your knowledge of the language and literature of Classical Greece. The language part of the course involves translation from and into Greek.

*Course Co-ordinator:* Dr Ronald Knox

### 7FCV GREEK 2B

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Tuesday, Thursday, Friday - 10.00 am

*Requirements of entry:* Satisfactory completion of Greek 2A, or at the discretion of the Head of Department

*Co-requisites:* None

*Assessment:* Two class tests (20% each), one essay (20%), end of course examination (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enlarge your knowledge of the language and literature of Classical Greece. The language part of the course involves translation from and into Greek.

*Course Co-ordinator:* Dr Ronald Knox

### 7FBV LATIN 2A: LETTERS AND SOCIETY

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday, Tuesday, Wednesday, Thursday at 3.00 pm

*Requirements of entry:* Grade D or above in Latin 1B or 1D, or at the discretion of the Head of Department

*Assessment:* Two class tests (20% each), one essay (20%), end of course examination (40%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To develop your knowledge of the Latin language and provide a detailed understanding and appreciation of prescribed literary texts and the society within which they were written.

*Course Co-ordinator:* Dr Costas Panayotakis

### 7FAV LATIN 2B: AUGUSTAN POETRY

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Tuesday, Wednesday, Thursday at 3.00 pm

*Requirements of entry:* Grade D or above in Latin 2A, or at the discretion of the Head of Department

*Assessment:* Two class tests (20% each), one essay (20%), end of course examination (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To develop your knowledge of the Latin language and provide a detailed understanding and appreciation of prescribed literary texts and of the society within which they were written.

*Course Co-ordinator:* Dr Costas Panayotakis

### 2Y5D CLASSICAL CIVILISATION 3

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* Grade D in Classical Civilisation 2A or 2B

*Assessment:* Three 20-credit Honours papers are chosen; form and timing of assessment varies depending on options chosen.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims to study the civilisation of Greece and Rome at an advanced level, extending and deepening the knowledge and understanding achieved

in the classes at Levels 1 and 2. Emphasis is placed on three key modes of study of the ancient world, archaeological, historical and literary. No knowledge of the Greek and Latin languages is demanded but those who wish to begin Latin or Greek will be offered the option of doing so. The student chooses three options from the Honours programme but is assessed in them at level 3 General Humanities Standard.

*Course Co-ordinator:* Dr Ronald Knox

### 9LGF CLASSICS 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* At least two level one courses and two level two courses in Classical Civilisation, Greek and/or Latin with at least two Cs and two Ds. Three Ds and a C or four Ds may be considered for entry at the Head of Department's discretion. Students who have taken fewer than four courses may be considered for Honours entry but will be expected to take the missing courses in their Junior Honours year.

*Assessment:* Options are assessed in the session they are taught

*Degree Examination taken in:* May/June

*Aims:* To study the civilisation of Greece and Rome at an advanced level, extending and deepening the knowledge and understanding achieved in the courses taken in first and second year. Emphasis is placed on the four key modes of study of the ancient world, archaeological, historical, literary and philosophical. No knowledge of the Greek and Latin languages is demanded but those who wish to begin Latin or Greek will be offered the option of doing so. A primary aim is to promote direct intellectual engagement with ancient texts and artefacts which constitute the legacy of the ancient world: a secondary one is to illuminate with the aid of modern scholarship the multiform interpretations of them which more recent ages have evolved.

*Honours Course Prescription:* Over the two Honours years students take either six options (normally three in Junior Honours and three in Senior Honours) of 20 credits each; or four options of 20 credits each and a dissertation (40 credits). The 20 credit options must include one historical and one literary option. Joint honours students must do a dissertation; if you are doing a dissertation in your other subject you may not take the dissertation in Classics.

*Course Co-ordinator:* Dr Ronald Knox

### 9FYH CLASSICS 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* At least two level one courses and two level two courses in Classical Civilisation, Greek and/or Latin with at least two Cs and two Ds. Three Ds and a C or four Ds may be considered for entry at the

Head of Department's discretion. Students who have taken fewer than four courses may be considered for Honours entry but will be expected to take the missing courses in their Junior Honours year.

*Assessment:* Options are assessed in the session they are taught

*Degree Examination taken in:* May/June

*Aims:* To study the civilisation of Greece and Rome at an advanced level, extending and deepening the knowledge and understanding achieved in the courses taken in first and second year. Emphasis is placed on the four key modes of study of the ancient world, archaeological, historical, literary and philosophical. No knowledge of the Greek and Latin languages is demanded but those who wish to begin Latin or Greek will be offered the option to do so. A primary aim is to promote direct intellectual engagement with ancient texts and artefacts which constitute the legacy of the ancient world: a secondary one is to illuminate with the aid of modern scholarship the multiform interpretations of them which more recent ages have evolved.

*Honours Course Prescription:* Over the two Honours years students take Ten options (20 credits each) from the list in the Honours handbook, together with a dissertation worth 40 credits. The options taken must include one historical and one literary option.

*Course Co-ordinator:* Dr Ronald Knox

### 116F GREEK 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* A grade of B in Greek 2B guarantees an offer of entry into Honours in Greek. A grade of C may be considered

*Co-requisites:* None

*Assessment:* Options are assessed in the session they are taught

*Degree Examination taken in:* May/June

*Aims:* The aim of the course is to study at an advanced level the principal works of Greek literature (both prose and poetry), as well as the language, history, philosophy, and archaeology of the classical period.

*Honours Course Prescription:* Over the two Honours years students must take options totalling 120 credits. These must include either Greek Unprepared Translation 89DF or Greek Prose Composition and Unprepared Translation 89DE; at least two papers from the Greek options; and at least one paper from the Classics options. The remaining 40 credits may be derived from either a dissertation (40 credits); or two further papers from the Greek options; or one paper from the Greek options and one paper from the Classics options. Unless in special circumstances the Head of Department approves a different choice of options. Joint honours students must do a dissertation; if you are doing a dissertation in your other subject you may not take the dissertation in Greek.

*Course Co-ordinator:* Dr Ronald Knox

**116H GREEK 3H (SINGLE)***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Lectures and seminars as per Classics Department Honours handbook*Requirements of entry:* A grade of B in Greek 2B guarantees an offer of entry into Honours in Greek. A grade of C may be considered*Co-requisites:* None*Assessment:* Options are assessed in the session they are taught*Degree Examination taken in:* May/June*Aims:* The aim of the course is to study at an advanced level the principal works of Greek literature (both prose and poetry), as well as the language, history, philosophy and archaeology of the classical period.*Honours Course Prescription:* Over the two Honours years students take ten options: Greek unprepared translation or Greek prose composition and unprepared translation, six further papers from the Greek options, three papers from the Classics options, and a dissertation.*Course Co-ordinator:* Dr Ronald Knox**9LBF LATIN 3H JOINT***Credits:* 60*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Lectures and seminars as per Classics Department Honours handbook*Requirements of entry:* A Grade of B in either level 2 course (or, with the approval of the Head of Department, a C) and at least a D in the other level 2 course guarantees entry into Honours Latin*Assessment:* Options are assessed in the session they are taught*Degree Examination taken in:* May/June*Aims:* The aim of this programme is to increase students' expertise in the Latin language, to develop an understanding of selected literary works of major importance, and to study in depth various aspects of Classical culture.*Honours Course Prescription:* Over the two Honours years students must take options totalling 120 credits. These must include either Latin Unprepared Translation 96NW or Latin Prose Composition and Unprepared Translation 93VU; at least two papers from the Latin options; and at least one paper from the Classics options. The remaining 40 credits may be derived from either a dissertation (40 credits); or two further papers from the Latin options; or one paper from the Latin options and one paper from the Classics options. Unless in special circumstances the Head of Department approves a different choice of options. Joint honours students must do a dissertation; if you are doing a dissertation in your other subject you may not take the dissertation in Latin.*Course Co-ordinator:* Prof Roger Green**9LFH LATIN 3H SINGLE***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Lectures and seminars as per Classics Department Honours handbook*Requirements of entry:* A Grade of B in either level 2 course (or, with the approval of the Head of Department, a C) and at least a D in the other level 2 course guarantees entry into Honours Latin*Assessment:* Options are assessed in the session they are taught*Degree Examination taken in:* May/June*Aims:* The aim of this programme is to increase students' expertise in the Latin language, to develop an understanding of selected literary works of major importance, and to study in depth various aspects of Classical culture.*Honours Course Prescription:* Over the two Honours years students take ten options: Latin unprepared translation or Latin prose composition and unprepared translation, six further papers from the Latin options, three papers from the Classics options, and a dissertation.*Course Co-ordinator:* Prof Roger Green**9FXG CLASSICS 4H (JOINT)***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Lectures and seminars as per Classics Department Honours handbook*Requirements of entry:* Satisfactory completion of Junior Honours*Assessment:* Options are assessed in the session they are taught*Degree Examination taken in:* May/June*Aims:* To study the civilisation of Greece and Rome at an advanced level, extending and deepening the knowledge and understanding achieved in the courses taken in first and second year. Emphasis is placed on the four key modes of study of the ancient world, archaeological, historical, literary and philosophical. No knowledge of the Greek and Latin languages is demanded but those who wish to begin Latin or Greek will be offered the option of doing so. A primary aim is to promote direct intellectual engagement with ancient texts and artefacts which constitute the legacy of the ancient world: a secondary one is to illuminate with the aid of modern scholarship the multiform interpretations of them which more recent ages have evolved.*Honours Course Prescription:* Over the two Honours years students take either six options (normally three in Junior Honours and three in Senior Honours) of 20 credits each; or four options of 20 credits each and a dissertation (40 credits). The 20 credit options must include one historical and one literary option. Joint honours students must do a dissertation; if you are doing a dissertation in your other subject you may not take the dissertation in Classics. .*Course Co-ordinator:* Dr Ronald Knox

### 9LHJ CLASSICS 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* Satisfactory completion of Junior Honours

*Excluded Courses:* .

*Assessment:* Options are assessed in the session they are taught

*Degree Examination taken in:* May/June

*Aims:* To study the civilisation of Greece and Rome at an advanced level, extending and deepening the knowledge and understanding achieved in the courses taken in first and second year. Emphasis is placed on the four key modes of study of the ancient world, archaeological, historical, literary and philosophical. No knowledge of the Greek and Latin languages is demanded but those who wish to begin Latin or Greek will be offered the option to do so. A primary aim is to promote direct intellectual engagement with ancient texts and artefacts which constitute the legacy of the ancient world: a secondary one is to illuminate with the aid of modern scholarship the multiform interpretations of them which more recent ages have evolved.

*Honours Course Prescription:* Over the two Honours years students take Ten options (20 credits each) from the list in the Honours handbook, together with a dissertation worth 40 credits. The options taken must include one historical and one literary option.

*Course Co-ordinator:* Dr Ronald Knox

### 116G GREEK 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* Satisfactory completion of Junior Honours

*Co-requisites:* None

*Assessment:* Options are assessed in the session they are taught

*Degree Examination taken in:* May/June

*Aims:* The aim of the course is to study at an advanced level the principal works of Greek literature (both prose and poetry), as well as the language, history, philosophy, and archaeology of the classical period.

*Honours Course Prescription:* Over the two Honours years students must take options totalling 120 credits. These must include either Greek Unprepared Translation 89DF or Greek Prose Composition and Unprepared Translation 89DE; at least two papers from the Greek options; and at least one paper from the Classics options. The remaining 40 credits may be derived from either a dissertation (40 credits); or two further papers from the Greek options; or one paper from the Greek options and one paper from the Classics options. Unless in special circumstances the Head of Department approves a different choice of options. Joint honours

students must do a dissertation; if you are doing a dissertation in your other subject you may not take the dissertation in Greek.

*Course Co-ordinator:* Dr Ronald Knox

### 116J GREEK 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* Satisfactory completion of Junior Honours

*Co-requisites:* None

*Assessment:* Options are assessed in the session they are taught

*Degree Examination taken in:* May/June

*Aims:* The aim of the course is to study at an advanced level the principal works of Greek literature (both prose and poetry), as well as the language, history, philosophy and archaeology of the classical period.

*Honours Course Prescription:* Over the two Honours years students take ten options: Greek unprepared translation or Greek prose composition and unprepared translation, six further papers from the Greek options, three papers from the Classics options, and a dissertation.

*Course Co-ordinator:* Dr Ronald Knox

### 9LCG LATIN 4H JOINT

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and seminars as per Classics Department Honours handbook

*Requirements of entry:* Satisfactory completion of Junior Honours

*Assessment:* Options are assessed in the session they are taught

*Degree Examination taken in:* May/June

*Aims:* The aim of this programme is to increase students' expertise in the Latin language, to develop an understanding of selected literary works of major importance, and to study in depth various aspects of Classical culture.

*Honours Course Prescription:* Over the two Honours years students must take options totalling 120 credits. These must include either Latin Unprepared Translation 96NW or Latin Prose Composition and Unprepared Translation 93VU; at least two papers from the Latin options; and at least one paper from the Classics options. The remaining 40 credits may be derived from either a dissertation (40 credits); or two further papers from the Latin options; or one paper from the Latin options and one paper from the Classics options. Unless in special circumstances the Head of Department approves a different choice of options. Joint honours students must do a dissertation; if you are doing a dissertation in your other subject you may not take the dissertation in Latin.

Course Co-ordinator: Prof Roger Green

### 9LEJ LATIN 4H SINGLE

Credits: 120

Level: 4

When Taught: Full Session (September - June)

Timetable: Lectures and seminars as per Classics Department Honours handbook

Requirements of entry: Satisfactory completion of Junior Honours

Assessment: Options are assessed in the session they are taught

Degree Examination taken in: May/June

Aims: The aim of this programme is to increase students' expertise in the Latin language, to develop an understanding of selected literary works of major importance, and to study in depth various aspects of Classical culture.

Honours Course Prescription: Over the two Honours years students take ten options: Latin unprepared translation or Latin prose composition and unprepared translation, six further papers from the Latin options, three papers from the Classics options, and a dissertation.

Course Co-ordinator: Prof Roger Green

## Computing Science

### 7FWU COMPUTING SCIENCE - 1P

Credits: 20

Level: 1

When Taught: Full Session (September - June)

Timetable: Lectures 48 taught at 2 per week on Wednesday and Friday at 12.00 noon, and a 2-hour laboratory/tutorial session weekly throughout the session. One of the lecture sessions each week may take the form of a large group tutorial.

Requirements of entry: Eligible students should have a Grade B or above in Higher Mathematics, or a Grade C in Higher Mathematics AND a Grade B or above in Higher Computing/Information Studies, or a suitable equivalent.

Excluded Courses: The 20 credits for CS1P cannot be counted in addition to credits for CS1R (IP1), CS1S (FP1), or IPEE1.

Assessment: One 2-hour examination (60%), class tests (20%) and laboratory examinations (20%).

Degree Examination taken in: May/June

Resit Examination taken in: August/September

Aims: The aim of the CS1P course is to produce programmers equipped with an understanding of: fundamental computational concepts underlying most programming languages, a range of problem-solving techniques using computers, the role of programming within the overall software development process, attitudes and working practices appropriate for a professional programmer, the skills supporting the solution of small problems using a programming language, the clear expression of solutions at different levels of abstraction, independent and self-motivated study in Computing Science.

Course Co-ordinator: Dr Simon Gay

### 7FXU COMPUTING SCIENCE - 1Q

Credits: 20

Level: 1

When Taught: Full Session (September - June)

Timetable: 48 Lectures taught at 2 per week on Tuesday and Thursday at 12.00 noon, one-hour tutorial and two-hour laboratory session per fortnight, throughout the session.

Requirements of entry: A Grade B or above in Higher Mathematics, or a Grade C in Higher Mathematics AND a Grade B or above in Higher Computing/Information Studies, or a suitable equivalent.

Co-requisites: CS1P

Excluded Courses: There would be certain restricted combinations with existing Level 1 courses. For instance, the 20 credits for CS1Q cannot be counted in addition to credits for CS1X (CF1) and CS1Y (HCI1). Humanities Computing Level 1 courses.

Assessment: One 2-hour examination (70%), class test (10%) assessed coursework (20%)

Degree Examination taken in: May/June

Resit Examination taken in: August/September

Aims: The aim of the CS1Q course is to give students an understanding of: the structure of a computer system at a range of levels: logic gates, functional units within the CPU, functional units within the computer, the operating system, the high-level programmer's view, networks, human-computer interaction: styles of interaction, requirements for an interactive system in relation to the nature of the tasks being supported, issues in the design of interactive systems, critical assessment of designs, the ways in which databases contribute to the management of large amounts of data, the professional and ethical issues raised by the existence of databases and networks, mathematics to support the previous items and to provide a foundation for level 2.

Course Co-ordinator: Dr Simon Gay

### KXDV COMPUTING SCIENCE 2P: JAVA PROGRAMMING 2

Credits: 10

Level: 2

When Taught: Semester 1 (September - January)

Timetable: Two 1-hour lectures per week tba (will be taught within Computing Science Level 2 times of either Mon, Tues or Wed at 11 am and either Wed at 1 pm or Thurs or Fri at 11 am), one 2-hour laboratory per week, 1-hour examples class every 3 weeks.

Requirements of entry: CS1P (normally at Grade C or above at the first attempt).

Assessment: 1.5 hour examination (50%), laboratory (30%), coursework (20%).

Degree Examination taken in: May/June

Resit Examination taken in: August/September

Aims: To further develop the students' experience in programming using a strongly typed language (Java) and strengthen their problem solving skills; to introduce the ideas that underpin object-oriented programming

and ensure students gain the ability to appropriately utilise these concepts in developing small and medium sized software systems; to begin to develop the ability to select and re-use existing software components and libraries from a limited subset of standard libraries; and to provide an introduction to elementary graphical user-interface (GUI) development.

*Course Co-ordinator:* Dr Robert Irving

### **3ABV COMPUTING SCIENCE 2R: ALGORITHMIC FOUNDATIONS**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Two 1-hour lectures per week tba (will be taught within Computing Science Level 2 times of either Mon, Tues or Wed at 11 am and either Wed at 1 pm or Thurs or Fri at 11 am); one hour Examples Class every 3 weeks; plus drop-in tutorials at times to be arranged.

*Requirements of entry:* Entry to Level 2 Computing Science is guaranteed to students who achieve Grade C or better in each of CS1P and CS1Q at the first attempt. All others would be at the discretion of the Department.

*Excluded Courses:* Level 2 Humanities Computing

*Assessment:* 1.5 hour examination (80%), plus assessed coursework (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce the foundational mathematics needed for Computing Science, to make students proficient in their use, and to show how they can be applied to advantage in understanding computational phenomena.

*Course Co-ordinator:* Dr Robert Irving

### **3ADV COMPUTING SCIENCE 2T: COMPUTER SYSTEMS**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Two 1-hour lectures per week tba (will be taught within Computing Science Level 2 times of either Mon, Tues or Wed at 11 am and either Wed at 1 pm or Thurs or Fri at 11 am); one-hour Examples Class every 3 weeks and two-hour practical per fortnight as arranged.

*Requirements of entry:* Entry is guaranteed to students who achieve Grade C or better in each of CS1P and CS1Q at the first attempt. All others would be at the discretion of the Department.

*Excluded Courses:* Level 2 Humanities Computing

*Assessment:* 1.5 hour examination (80%), plus assessed coursework (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide a thorough understanding of the integration of hardware and software components in a simple, but realistic, computer system.

*Course Co-ordinator:* Dr Robert Irving

### **8OYV COMPUTING SCIENCE 2U: INFORMATION MANAGEMENT 2**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Two 1-hour lectures per week tba (will be taught within Computing Science Level 2 times of either Mon, Tues or Wed at 11 am and either Wed at 1 pm or Thurs or Fri at 11 am); one-hour Examples Class every 3 weeks and two-hour practical per fortnight as arranged.

*Requirements of entry:* Grade C or better in each of CS1P and CS1Q at the first attempt.

*Excluded Courses:* Application Software Development 1 and Data Management 2.

*Assessment:* 1.5-hour examination (80%), plus assessed coursework (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To develop competence, confidence, and professionalism in designing and developing information systems which provide computer interfaces to the management of large collections of data, including delivery over the world wide web.

*Course Co-ordinator:* Dr Robert Irving

### **KXEV COMPUTING SCIENCE 2X: ALGORITHMS & DATA STRUCTURES 2**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Two 1-hour lectures per week tba (will be taught within Computing Science Level 2 times of either Mon, Tues or Wed at 11 am and either Wed at 1 pm or Thurs or Fri at 11 am), one 1-hour tutorial per week, 1-hour examples classes every 3 weeks, 2-hour laboratories every fortnight.

*Requirements of entry:* CS1P (normally at Grade C or above at the first attempt).

*Co-requisites:* Java Programming 2, Object-Oriented Software Engineering 2.

*Assessment:* 1.5 hour examination (80%), coursework (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To familiarise students with fundamental data types and data structures used in programming, with the design and analysis of algorithms for the manipulation of such structures, and to provide practice in the implementation and use of these structures and algorithms in a Java context.

*Course Co-ordinator:* Dr Robert Irving

### **KXFV COMPUTING SCIENCE 2Y: OBJECT-ORIENTED SOFTWARE ENGINEERING 2**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)



*Timetable:* Two 1-hour lectures per week tba (will be taught within Computing Science Level 2 times of either Mon, Tues or Wed at 11 am and either Wed at 1 pm or Thurs or Fri at 11 am), one 1-hour tutorial per week, 1-hour examples classes every 3 weeks, 2-hour laboratories every fortnight.

*Requirements of entry:* CS1P (normally at Grade C or above at the first attempt).

*Co-requisites:* Java Programming 2, Algorithms and Data Structures 2.

*Assessment:* 1.5 hour examination (80%), coursework (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce the basic concepts of software engineering; to present methods for the design, implementation and documentation of larger object-oriented programs; and to develop program comprehension and design skills by studying and extending existing programs.

*Course Co-ordinator:* Dr Robert Irving

### 87BS C 3

*Credits:* 10

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Two one hour lectures per week on Wednesday and Friday at 12 noon, plus one 2-hour laboratory/workshop per week on Tuesday 2-4p.m.

*Requirements of entry:* At least a grade D in Data Structures & Algorithms 2 and Software Design & Implementation 2. Only available to honours students.

*Assessment:* Assessment is by a 2 hour examination (80%) and coursework (20%). The assessed coursework will consist of one or more trivial initial exercises and one or both of: a substantial solo coding exercise, a substantial team coding exercise. Laboratory attendance for this course is compulsory and will be monitored electronically.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are: to develop the students' experience and understanding of programming in a low-level language; to develop the ability to craft efficient and effective code in a pointer-rich language; to enhance the students' skills in engineering software as interacting sub-systems, using interfaces and libraries to manage medium sized software development projects; to develop practical expertise in, and understanding of, low-level 2-D graphics programming; to prepare students to transfer these skills to other languages; to introduce the techniques required for mixed language programming; to heighten awareness of the differences between programming paradigms.

*Course Co-ordinator:* Dr Karen Renaud

### 87BU C FOR ESE3

*Credits:* 0

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Students will attend 5 hours of supported sessions at times to be arranged.

*Requirements of entry:* At least a grade D in Data Structures & Algorithms 2 and Software Design & Implementation 2. Only normally available to Electronic and Software Engineering (ESE3H) or Microcomputer Systems Engineering (MSE3H) students.

*Assessment:* Self-Assessment is by practical coursework. The assessed coursework will consist of one or more trivial initial exercises and one or both of: a substantial solo coding exercise, a substantial team coding exercise. Attendance at the support sessions for this course is compulsory and will be monitored electronically

*Aims:* The aims of the course are: to develop the students' experience and understanding of programming in a low-level language; to develop the ability to craft efficient and effective code in a pointer-rich language; to enhance the students' skills in engineering software as interacting sub-systems, using interfaces and libraries to manage medium sized software development projects.

*Course Co-ordinator:* Dr Karen Renaud

### 514F COMPUTING SCIENCE 3H (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* A grade point average of at least 12 (ie C) over at least four of the Level 2 Computing Science courses (including Data Structures and Algorithms 2 and Software Design and Implementation 2), at the first attempt AND fulfil the requirements for the other subject.

*Assessment:* Each Computing Science course is assessed by examination and coursework as detailed in the course descriptions.

*Degree Examination taken in:* May/June

*Aims:* As for Single Honours in Computing Science, but with a reduced breadth due to the limit on the time available for the study of CS material. The best Combined Honours graduates will build links between their two disciplines, allowing them to constructively apply their technical skills and knowledge in interdisciplinary research and/or industrial settings.

*Honours Course Prescription:* Level 3: Professional Software Development 3, Advanced Programming 3 and three other taught courses (no project). For further details see our website - <http://www.dcs.gla.ac.uk/courses/teaching>.

*Course Co-ordinator:* Dr Karen Renaud

### 514H COMPUTING SCIENCE 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* The student must: have a grade-point average of at least 12 (i.e. C) over the six Level 2 Computing Science courses, at the first attempt, having

passed (Grade D or better) the Level 2 Computing Science courses 2X (Data Structures and Algorithms) and 2Y (Software Design and Implementation) at the first attempt. It is strongly recommended that 40 credits of Level 1 Mathematics are taken in year 1 or 2.

*Assessment:* Each course is assessed by examination and coursework as detailed in course descriptions.

*Degree Examination taken in:* May/June

*Aims:* The academic aim is to provide students with a deep understanding of the theory and practice of computing science. Students study a broad range of core topics, and are encouraged to discover the connections among these topics and to understand their common theoretical foundations. Students also choose selected topics to study in considerable depth; this means that the best Honours graduates are also equipped to enter research programmes. The professional aim is to produce graduates fit to occupy responsible positions in the information technology industry. Graduates will need a broad knowledge of computing, deep knowledge of selected topics, and extensive practical experience. The technology is changing so rapidly that knowledge of specific systems rapidly becomes obsolete. So, although the degree is regularly updated, the aim is to emphasise unchanging principles and to encourage independent study habits that will stand graduates in good stead throughout their professional careers.

*Honours Course Prescription:* Level 3: Advanced Programming 3, Algorithmics 3, Database Systems 3, C3 or C for ESE3, Interactive Systems 3, Networked Systems Architecture 3, Operating Systems 3, Professional Software Development 3, Programming Languages 3, and the Team Project 3 must be taken in level 3. Admission to Level 4 is at the discretion of the head of department but is guaranteed to those who achieve a C average across the level 3 courses. For further details see our website <http://www.dcs.gla.ac.uk/courses/teaching>.

*Course Co-ordinator:* Dr Karen Renaud

#### **4PTW COMPUTING SCIENCE 3P: ALGORITHMICS 3**

*Credits:* 10 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Provisionally - Lectures Tuesday and Thursday at 12 noon. Labs and tutorials Friday 2-4 p.m.

*Requirements of entry:* Algorithmic Foundations 2, Software Design and Implementation 2, 40 credits of Level 1 Mathematics are strongly recommended. This course is only available to Honours students.

*Co-requisites:* Advanced Programming 3.

*Assessment:* Examination 80% Coursework 20%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To develop the student's skills in the design and analysis of algorithms; to study algorithms for a range of important standard problems; to introduce the student to the theory of NP-completeness together with its practical implications, and to make the student aware of fundamental concepts of computability.

*Course Co-ordinator:* Dr Karen Renaud

#### **4PYW COMPUTING SCIENCE 3Q: ADVANCED PROGRAMMING 3**

*Credits:* 10 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Provisionally - Lectures Wednesday and Friday at 11 a.m. Labs/Tutorials Wednesday 2-4 p.m.

*Requirements of entry:* Software Design and Implementation 2 and Data Structures and Algorithms 2.

*Assessment:* Examination: (80%); Coursework (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To further develop the students' experience and understanding of object-oriented programming; to develop expertise in, and understanding of, concurrent programming; to introduce distributed programming; to develop the ability to select and re-use existing software components and libraries; to prepare students to transfer these skills to other languages; to heighten awareness of the differences between programming paradigms.

*Course Co-ordinator:* Dr Karen Renaud

#### **4RDW COMPUTING SCIENCE 3S: OPERATING SYSTEMS 3**

*Credits:* 10 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Provisionally - Lectures Wednesday and Thursday at 10 a.m. Labs/Tutorials Thursday 2-4 p.m.

*Requirements of entry:* Grade D or better in Computer Systems 2. This course is only available to Honours students.

*Co-requisites:* Advanced Programming 3, C3 (or C for ESE3).

*Assessment:* Examination (80%); Practical Exercises (20%) involving intensive C programming, and thorough evaluation of understanding of principles and techniques via assessed questions.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce the students to the styles of coding required with an OS; to give a thorough presentation of the contents of a traditional OS, including the key abstractions; to show the range of algorithms and techniques available for specific OS problems, and the implications of selection specific algorithms for application behaviour; to develop an integrated understanding of what the computer is doing, from a non-naive view of hardware to the behaviour of multi-threaded application processes; present the alternatives and clarify the trade-offs that drive OS and hardware design.

*Course Co-ordinator:* Dr Karen Renaud

### 4RCW COMPUTING SCIENCE 3T: NETWORKED SYSTEMS ARCHITECTURE 3

*Credits:* 10 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Provisionally - Lectures Tuesday and Thursday 12 noon. Labs/tutorials Wednesday 2-4 p.m.

*Requirements of entry:* Grade D or better in Computer Systems 2.

*Co-requisites:* Advanced Programming 3, C3 (or C for ESE3).

*Assessment:* Examination (100%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a solid understanding of the technologies that support modern networked computer systems; to provide our undergraduates with the ability to see through the hype generated by telecommunications and computer networking vendors, and evaluate and advise industry on networking deployment.

*Course Co-ordinator:* Dr Karen Renaud

### 4RAW COMPUTING SCIENCE 3U: DATABASE SYSTEMS 3

*Credits:* 10 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Provisionally - Lectures Wednesday and Friday at 11 a.m. Labs/Tutorials Friday 2-4 p.m.

*Requirements of entry:* Information Management 2 at Grade D or better.

*Co-requisites:* Advanced Programming 3

*Assessment:* Examination 100%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* From the basic skills derived in Information Management 2, to develop the software engineering and database administration skills required for designing, creating, running and developing a relational database application and its associated application software suite. This will include an introduction to web technology, the way in which this interacts with databases. The course will also teach advanced SQL and extended ER diagrams.

*Course Co-ordinator:* Dr Karen Renaud

### 9TQW COMPUTING SCIENCE 3W: INTERACTIVE SYSTEM

*Credits:* 10 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Provisionally - Lectures Tuesday and Friday at 10a.m. Labs/tutorials Thursday 2-4 p.m.

*Requirements of entry:* Advanced Programming 3, Human Computer Interaction 1 or CS1Q.

*Assessment:* Examination (70%); Practical Exercises (30%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To offer students the opportunity to become familiar with fundamental interaction and evaluation paradigms; to enable students to become skilled in techniques for visualising and interacting with information; to enable students to apply these techniques in challenging exercises in design, implementation and evaluation.

*Course Co-ordinator:* Dr Karen Renaud

### 4REW COMPUTING SCIENCE 3X: PROFESSIONAL SOFTWARE DEVELOPMENT 3

*Credits:* 20 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Provisionally - Lectures Monday and Thursday at 11 a.m. Labs/Tutorials Monday 2-4 p.m.

*Requirements of entry:* Software Design and Implementation 2.

*Co-requisites:* Advanced Programming 3.

*Assessment:* Because the material in this course is largely rooted in software engineering practice, 50% of the assessment comes from the PSD Group Exercise; the other 50% of the assessment comes from the course examination. An individual's assessment on the Group Exercise will be made up of a combination of group and individual deliverables. Group deliverables include the system requirements, design specification, test plan and system documentation as well as a final acceptable software product. Individual deliverables will normally include at least two reports and at least one public presentation. 50% of an individual's Group Exercise assessment will come from group deliverables and 50% from individual deliverables.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to modern software development methods and techniques for building and maintaining large systems; provide an opportunity for the students to apply these methods and techniques presented to them in the context of an extended group-based software development exercise; to make students aware of the professional, social and ethical dimensions of software development; to instill in the students a professional attitude towards software development.

*Course Co-ordinator:* Dr Karen Renaud

### 4RFW COMPUTING SCIENCE 3Y: TEAM PROJECT 3

*Credits:* 20 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Project group meets with supervisor once a week throughout duration of project.

*Requirements of entry:* Software Design and Implementation 2; Data Structures and Algorithms 2

*Co-requisites:* Professional Software Development 3

*Assessment:* Joint dissertation comprising a project report, documentation, and the software itself. 5% Presentation; 5% Writing Skills; 90% Project Dissertation

*Degree Examination taken in:* May/June

*Aims:* To design and implement, in a team, a software system that solves a (more-or-less) well-understood problem; to achieve a deliverable product in the form of a piece of working software.

*Course Co-ordinator:* Dr Karen Renaud

### 89EQ PROGRAMMING LANGUAGES 3

*Credits:* 10

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Provisionally - Lectures: Monday and Wednesday at 12 noon. Weekly Labs/Tutorials: Tuesday 2-4p.m.

*Assessment:* Examination (80%), Class Test (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a conceptual framework that will enable students to understand already-learned programming languages more deeply and learn new languages more efficiently. To explain syntax, semantics, and pragmatics of programming languages, and to show how syntax can be formalised. To explain the functions of compilers and interpreters and how they interact, and to explain the function decomposition of compilers.

*Course Co-ordinator:* Dr Karen Renaud

### 8R9H SOFTWARE ENGINEERING 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* varies.

*Requirements of entry:* An overall grade point average of 12 across all Level 2 courses including a grade point average of 13 in Data Structures & Algorithms 2 and Software Design & Implementation 2. It is strongly recommended that 40 credits of Level 1 Mathematics are taken in year 1 or 2.

*Assessment:* Each Computing Science course is assessed by examination and coursework as detailed in the course descriptions. Additionally, there is an assessed summer placement.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The academic aim is to provide students with a deep understanding of the theory and practice of software engineering. Students study a broad range of core topics, and are encouraged to discover the connections among these topics and to understand their common theoretical foundations. Students also choose selected topics to study in considerable depth; this means that the best Honours graduates are also equipped to enter research programmes. The professional aim is to produce graduates fit to occupy responsible positions in the information technology industry, particularly within the software industry. Graduates will need a broad knowledge of computing, deep knowledge of selected topics in software engineering, and extensive practical experience. The technology is changing so rapidly that knowledge of specific systems rapidly becomes obsolete. So, although the degree is regularly updated, the aim is to

emphasise unchanging principles and to encourage independent study habits that will stand graduates in good stead throughout their professional careers. The degree also aims to give graduates experience of software engineering in an industrial context, to this end an integral part of the degree is an industrial placement between the third and fourth years.

*Honours Course Prescription:* See single honours level 3 for courses and includes summer placement.

*Course Co-ordinator:* Prof Raymond Welland

### 4RGW SOFTWARE ENGINEERING SUMMER PLACEMENT

*Credits:* 10

*Level:* 3

*When Taught:* Term 4 (June - September)

*Timetable:* Summer prior to Level 4.

*Requirements of entry:* Software Engineering and Electronics Software Engineering students only

*Assessment:* Written report 50%, presentation on placement experience 25% and assessment of quality of experience 25%.

*Aims:* During the long vacation between third and fourth year, Software Engineering students will normally be required to undertake a summer placement of at least 10 weeks to gain relevant practical experience. During the placement their progress will be monitored by the Department. At the beginning of the fourth year students will be expected to submit a written report and give a presentation on their placement experience.

*Course Co-ordinator:* Prof Raymond Welland

### 514G COMPUTING SCIENCE 4H (COMBINED)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses chosen

*Requirements of entry:* A grade point average of at least 12 (ie C) over 60 credits of Level 3 Computing Science.

*Assessment:* Each Computing Science course is assessed by examination and coursework as detailed in the course descriptions. The split between examination and coursework will vary depending upon the combination chosen.

*Degree Examination taken in:* May/June

*Aims:* As for Single Honours in Computing Science, but with a reduced breadth due to the limit on the time available for the study of CS material. The best Combined Honours graduates will build links between their two disciplines, allowing them to constructively apply their technical skills and knowledge in interdisciplinary research and/or industrial settings.

*Honours Course Prescription:* For details of available courses see our website - <http://www.dcs.gla.ac.uk/courses/teaching>.

*Course Co-ordinator:* Prof Raymond Welland

**514J COMPUTING SCIENCE 4H  
(SINGLE)***Credits:* 120*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses chosen*Requirements of entry:* An average aggregated score of 12 in Computing Science 3H (Single).*Assessment:* Each Computing Science course is assessed by examination and coursework as detailed in course descriptions.*Degree Examination taken in:* May/June

*Aims:* The academic aim is to provide students with a deep understanding of the theory and practice of computing science. Students study a broad range of core topics, and are encouraged to discover the connections among these topics and to understand their common theoretical foundations. Students also choose selected topics to study in considerable depth; this means that the best Honours graduates are also equipped to enter research programmes. The professional aim is to produce graduates fit to occupy responsible positions in the information technology industry. Graduates will need a broad knowledge of computing, deep knowledge of selected topics, and extensive practical experience. The technology is changing so rapidly that knowledge of specific systems rapidly becomes obsolete. So, although the degree is regularly updated, the aim is to emphasise unchanging principles and to encourage independent study habits that will stand graduates in good stead throughout their professional careers.

*Honours Course Prescription:* For details of available courses see our website - <http://www.dcs.gla.ac.uk/courses/teaching>.

*Course Co-ordinator:* Prof Raymond Welland**0TEJ COMPUTING SCIENCE 4M***Credits:* 120*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Varies.*Requirements of entry:* An average aggregated score of 15 in Computing Science 3H or Software Engineering 3H will normally be required.*Assessment:* Each Computing Science course contributing to Computing Science 4M is assessed by examination and coursework as detailed in course descriptions. For students choosing to exit at the end of year 4 the final classification will be weighted 40% from Level 3 and 60% from Level 4, as per Computing Science 4H*Aims:* As for Computing Science 4H*Honours Course Prescription:* Same as Computing Science 4H.*Course Co-ordinator:* Mr Philip Gray**0TZG COMPUTING SCIENCE 4M  
(COMBINED)***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Varies*Requirements of entry:* An average aggregate score of 15 over all components contributing to Computing Science 3H Combined.*Assessment:* Each Computing Science course contributing to Computing Science 4M Combined is assessed by examination and coursework as detailed in the course descriptions. For students exiting at the end of year 4 the final classification will be weighted 40% from Level 3 and 60% from Level 4, as per Computing Science 4H Combined.*Aims:* As for Combined Honours in Computing Science, but with goal of preparing students for final year of Combined MSci in Computing Science. The best Combined Honours graduates will build links between their two disciplines, allowing them to constructively apply their technical skills and knowledge in interdisciplinary research and/or industrial settings.*Honours Course Prescription:* For details of available courses see our website - <http://www.dcs.gla.ac.uk/courses/teaching>.*Course Co-ordinator:* Mr Philip Gray**8R9J SOFTWARE ENGINEERING 4H***Credits:* 130*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Varies.*Requirements of entry:* Grade C in Software Engineering 3H. An average aggregated score of 12 at the end of 3rd year.*Assessment:* Each Computing Science course is assessed by examination and coursework as detailed in the course descriptions.*Degree Examination taken in:* May/June

*Aims:* The academic aim is to provide students with a deep understanding of the theory and practice of software engineering. Students study a broad range of core topics, and are encouraged to discover the connections among these topics and to understand their common theoretical foundations. Students also choose selected topics to study in considerable depth; this means that the best Honours graduates are also equipped to enter research programmes. The professional aim is to produce graduates fit to occupy responsible positions in the information technology industry, particularly within the software industry. Graduates will need a broad knowledge of computing, deep knowledge of selected topics in software engineering, and extensive practical experience. The technology is changing so rapidly that knowledge of specific systems rapidly becomes obsolete. So, although the degree is regularly updated, the aim is to emphasise unchanging principles and to encourage independent study habits that will stand graduates in good stead throughout their professional careers. The degree also aims to give graduates experience of software engineering in an industrial context, to this end an integral part of the degree is an industrial placement between the third and fourth years.

*Honours Course Prescription:* For details of the courses available see our website - <http://www.dcs.gla.ac.uk/courses/teaching>.

*Course Co-ordinator:* Prof Raymond Welland

### LKGJ SOFTWARE ENGINEERING 4M

*Credits:* 130

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Varies.

*Requirements of entry:* An average aggregated score of 15 in Software Engineering 3H will normally be required.

*Assessment:* Each Computing Science course contributing to Software Engineering 4M is assessed by examination and coursework as detailed in course descriptions. For students choosing to exit at the end of year 4 the final classification will be weighted 40% from Level 3 and 60% from Level 4, as per Software Engineering 4H.

*Aims:* As for Software Engineering 4H.

*Honours Course Prescription:* Same as Software Engineering 4H

*Course Co-ordinator:* Mr Philip Gray

### OTKJ COMPUTING SCIENCE 5M

*Credits:* 130

*Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Varies.

*Requirements of entry:* An average aggregated score of 15 in Computing Science 4M will normally be required.

*Assessment:* The assessment of individual Level 5 courses is detailed in the relevant course descriptions. Final classifications of the MSci will be weighted 20% from Level 3, 30% from Level 4 and 50% from Level 5.

*Degree Examination taken in:* May/June

*Aims:* In addition to the aims of the current Honours programme, Level 5 of this MSci aims to: equip students with an advanced and systematic understanding of selected areas of Computing Science; provide the skills necessary to pursue independent research; prepare students for an academic or industrial research career; introduce students to critical research techniques necessary to successfully complete a Project Proposal and an MSci Research Project; introduce students to presentation skills critical to presenting the results of their research; introduce students to techniques critical to pursuing a successful research career after postgraduate studies.

*Honours Course Prescription:* Research Methods and Techniques, Research Readings in Computing Science, Advanced Research Readings in Computing Science, Research Proposal, Research Project, plus 10 credits of elective courses at level H or M.

*Course Co-ordinator:* Mr Philip Gray

### OTYG COMPUTING SCIENCE 5M (COMBINED)

*Credits:* 60

*Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Varies.

*Requirements of entry:* An average aggregated score of 15 in Computing Science 4M Combined will normally be required.

*Assessment:* The assessment of individual Level 5 courses is detailed in the relevant course descriptions. Final classifications of the Combined MSci will be weighted 20% from level 3, 30% from Level 4 and 50% from Level 5.

*Degree Examination taken in:* May/June

*Aims:* In addition to the aims of the current combined Honours programme, Level 5 of this Combined MSci aims to: equip combined students with an advanced and systematic understanding of selected areas of Computing Science; provide the skills necessary to pursue independent research; prepare students for an academic or industrial research career; introduce students to critical research techniques necessary to successfully complete an MSci Research Project; introduce students to presentation skills critical to presenting the results of their research; introduce students to techniques critical to pursuing a successful research career after postgraduate studies.

*Honours Course Prescription:* Selected Research Readings in Computing Science, Research Methods and Techniques. Students must carry out an individual research project worth at least 40 credits. These 40 credits may be entirely accounted for from the 60 credit total in Computing Science. However, if the project credits are undertaken in whole or in part in the other participating Department, then any remainder of the student's 60 credit total in Computing Science may be replaced by appropriate electives.

*Course Co-ordinator:* Mr Philip Gray

### KHWJ SOFTWARE ENGINEERING 5M

*Credits:* 130

*Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Varies.

*Requirements of entry:* An average aggregated score of 15 in Software Engineering 4M will normally be required.

*Assessment:* The assessment of individual Level 5 courses is detailed in the relevant course descriptions. Final classification of the MSci in Software Engineering will be weighted 20% from Level 3, 30% from Level 4 and 50% from Level 5.

*Degree Examination taken in:* May/June

*Aims:* This degree programme aims to: Provide students with a deep understanding of the theory and practice of computing, give students the opportunity to study a broad range of core computing science topics, encourage students to discover the connections among these topics and to understand their common theoretical foundations, produce graduates fit to occupy responsible positions in the information technology industry, expose students to software engineering in an industrial context via summer work placement, give students the opportunity to choose selected Software Engineering topics to study in considerable depth thereby equipping the best graduates to enter research programmes. Emphasise unchanging principles in computing science, encourage independent study habits that will stand graduates in good stead throughout their professional careers, enable students to enhance their transferable and

interpersonal skills, particularly written and oral communication and team working, develop research skills including an understanding of research methods and techniques; reading and analysis of research papers in Software Engineering, enable students to prepare a research proposal and undertake a major research project in Software Engineering.

*Honours Course Prescription:* Research Methods and Techniques, Research Readings in Computing Science, Advanced Research Readings in Software Engineering, Research Proposal, Research Project, plus 10 credits of elective courses at level H or M.

*Course Co-ordinator:* Mr Philip Gray

## Economic & Social History

### 7BHU ECONOMIC AND SOCIAL HISTORY 1A: INDUSTRIALISATION & SOCIAL CHANGE 1750-1914

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday, Tuesday, Thursday - 3.00 p.m. Fortnightly tutorial

*Assessment:* One essay of c.1500 words (30%), one primary source report of c.1000 words (20%), one 2-hour, 2-question examination. (50%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course explores the causes and consequences of industrialisation from the mid-eighteenth century to the First World War. Starting with the pre-industrial economy and society, the course traces the development of a recognisably modern world in the nineteenth century, not only in terms of manufacturing and trade, but also the growth of cities, financial institutions, labour organisation, leisure activities and family relationships. The changes in all these areas are tracked from Britain, 'the cradle of the industrial revolution', to Europe, and then the wider world. National histories are placed in an international perspective and rapid transitions against the background of long-term trends. Students will be introduced to major questions in history such as the conditions for economic growth, the relationship between economic and social change, and the global transmission of both stability and instability. They will also get to grips with primary sources which are the basis for all historical knowledge. Courses 1A and 1B are built around the same key themes – international economic relations, labour and the workplace, social order and conflict, gender and the family, leisure and consumption, migration and community – in the same regions (Britain, Europe, the USA and Japan). However, they are designed as stand-alone courses.

### 7BJU ECONOMIC AND SOCIAL HISTORY 1B: ECONOMIC & SOCIAL CHANGE SINCE 1914

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Tuesday, Thursday - 3.00 pm; Fortnightly tutorial.

*Assessment:* One essay of c.1500 words (30%), one primary source report of c.1000 words (20%), one 2-hour, 2-question examination (50%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course explores economic and social change in the advanced economies from the First World War to the era of Thatcher and Reagan. It introduces students to major issues in history, such as the causes of economic growth and recession, the sources of social change, and the impact of war on society and the economy. The course starts with the terrible legacy of the First World War and charts the crises of the inter-war period. These decades of mass unemployment, but also mass leisure, witnessed the rise of fascism and communism. The Second World War gave way to a prolonged boom, a time of conspicuous consumption but also of commitment to social welfare, which together helped fuel the sexual revolution and youth culture. The boom ended with the oil crisis of 1973 and the subsequent period of instability. The course examines how various countries have coped with the problems that followed. The emphasis on contemporary and international history enables students to understand the experience of their own society and economy more fully in the light of global and long-term trends. They will also get to grips with primary sources which are the basis for all historical knowledge. Courses 1A and 1B are built around the same key themes – international economic relations, labour and the workplace, social order and conflict, gender and the family, leisure and consumption, migration and community – in the same regions (Britain, Europe, the USA and Japan). However, they are designed as stand-alone courses.

### 7KJV ECONOMIC & SOCIAL HISTORY 2A (20)

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday, Tuesday, Thursday - 3.00 pm; Fortnightly tutorial, 2 computer classes in Semester 1.

*Requirements of entry:* 20 credits at D or above in one Level 1 course in Economic & Social History, History (Arts), or Economics

*Excluded Courses:* N/A

*Assessment:* 1 essay of c2000 words, 30%. 1 computer exercise (ACCESS-based) 20%. 1 2-question, 2-hour exam at the end of course (January) 50%.

*Aims:* With a focus on England and Scotland from the late 18th century until the outbreak of World War I, the course seeks to develop both historical and transferable skills building on the analytical and conceptual experience gained in Level 1 classes. The course provides a background for understanding the main trends in British economic and social development from its rise as the first major industrial nation, to its position as a 'mature' economy in the early 20th century, faced with the growth of international competition. General aims are: (1) to develop confidence in the selection and analysis of information and in the use of written skills in

essays and examinations. (2) to interrogate widely-used software to give an understanding of the use of the computer as a historical tool. (3) to develop skills in presenting reasoned arguments, backed by the use of relevant and convincing evidence.

*Course Co-ordinator:* Dr Mark Freeman

### **7TDV ECONOMIC & SOCIAL HISTORY 2B**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Tuesday, Thursday - 3.00 pm; Fortnightly tutorial, 2 computer classes in Semester 2.

*Requirements of entry:* 20 credits at D or above in one Level 1 course in Economic & Social History, History (Arts), or Economics.

*Assessment:* 1 essay c2000 words, 30%. 1 computer exercise (EXCEL-based) 20%, 1 2-question, 2-hour exam at end of course (June) 50%

*Aims:* With a focus on England and Scotland since the outbreak of World War 1, the course seeks to develop both historical and transferable skills building on the analytical and conceptual experience gained in Level 1 classes. The course provides a background for understanding the economic and social position of contemporary Britain, including the effects of two World Wars on economic and social trends, the difficulties created by the international depression of the inter-war years, the main economic and social patterns in Britain since World War II. General aims are: (1) to develop confidence in the selection and analysis of information and in the use of written skills in essays and examinations. (2) to interrogate widely-used software to give an understanding of the use of the computer as a historical tool. (3) to develop skills in presenting reasoned arguments, backed by the use of relevant and convincing evidence.

*Course Co-ordinator:* Dr Mark Freeman

### **JKDW ECONOMIC & SOCIAL HISTORY 3: RESEARCH METHODS IN ECON & SOCIAL HISTORY A**

*Credits:* 20

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Class meetings Wednesdays 10-12; Tutorials TBA

*Requirements of entry:* 40 credits of Economic and Social History Level 2.

*Assessment:* Class Essay Mark - Individual

*Aims:* To build basic skills in the historiography and bibliography of Economic and Social History focusing primarily on a single theme; To enhance essay-writing skills; To develop and improve library skills. To develop transferable and other skills associated with the University's Employability strategy

*Course Co-ordinator:* Prof Raymond Stokes

### **JKCW ECONOMIC & SOCIAL HISTORY 3: RESEARCH METHODS IN ECON & SOCIAL HISTORY B**

*Credits:* 20

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Class meetings Wednesday 10-12; Computer sessions: Thursdays 3-5 or Fridays 9-11 in DISH Lab; Tutorials - TBA

*Requirements of entry:* Completion of Research Methods in Economic and Social History A

*Assessment:* Project length - 3000 words

*Aims:* To develop basic skills in source criticism, some quantitative methods, and rudimentary historical computing; To develop some skills in oral presentation; To introduce students to groupwork. To develop transferable and other skills associated with the University's Employability strategy

*Course Co-ordinator:* Prof Raymond Stokes

### **JKBW ECONOMIC & SOCIAL HISTORY 3: STUDIES IN ECONOMIC AND SOCIAL HISTORY**

*Credits:* 20

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* TBA

*Requirements of entry:* 40 credits of Economic and Social History Level 2.

*Co-requisites:* Research Methods in Economic and Social History A and B

*Assessment:* Essay (2,000-3,000) words.

*Aims:* To provide intensive training through lectures and seminars on a general topic in Economic and Social History related to the project group in Research methods in Economic and Social History A and B To develop transferable and other skills associated with the University's Employability strategy

*Course Co-ordinator:* Prof Raymond Stokes

### **200F ECONOMIC AND SOCIAL HISTORY 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* To progress to Honours students require:- 40 credits in Level One Economic and Social History at Grade B or above; OR 40 credits in Level Two Economic and Social History at Grade C or above. OR 20 credits in Level One Economic and Social History and 20 credits in Level Two Economic and Social History at Grade C or above, plus 20 credits at level 2 in either Economics at grade C or above or History at grade C or above. The Honours Co-ordinator has discretion over students who do not meet either of these criteria for entry into Honours.

*Assessment:* Unless otherwise specified all courses are examined in one 2-hour paper at the end of the year. Courses studied in Junior Honours are examined at the



end of year 3. Courses studied in Senior Honours are examined at the end of Year 4. Each examination paper is weighted as 70%, the class work representing 30%.

*Degree Examination taken in:* May/June

*Aims:* The Honours courses in Economic and Social History aim: to develop an understanding of the processes of economic development and social change; to explore the relationship between economic and social change; to provide understanding of the main patterns of economic and social change in the major economies to the present day; to relate the historical process of economic and social development to an understanding of contemporary issues.

*Honours Course Prescription:* Researching Economic and Social History 1 (Formerly Sources and Methods 1) and two from option list given below to be taken in Junior Honours year. Researching Economic and Social History 2 (Formerly Sources & Methods 2) plus two courses (or one course and a dissertation) to be taken in Senior Honours year.

*Course Options:* British Economic Policy 1945-51: The Labour Governments; Economic and Social History of Eastern Europe, 1918-1989; Gender and Class in Britain c1800-1930; German Big Business in the 20th Century; Innovations in Western Medicine, 1790-1960, Social Origins and Cultural Impacts; Medicine, State and Society in Britain 1914-74; Nature's Economy: An introduction to the social history of ecological and environmental thought; Popular Culture in Britain 1870-c1939; Poverty and Progress: Britain 1885-1914; Saints and Sinners: The Religions of the people of early modern England; Scotland Since 1914; US Economy and Society since 1945.

*Course Co-ordinator:* Prof Eleanor Gordon

### 200H ECONOMIC AND SOCIAL HISTORY 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* To progress to Honours students require:- 40 credits in Level One Economic and Social History at Grade B or above; OR 40 credits in Level Two Economic and Social History at Grade C or above. OR 20 credits in Level One Economic and Social History and 20 credits in Level Two Economic and Social History at Grade C or above, plus 20 credits at level 2 in either Economics at grade C or above or History at grade C or above. The Honours Co-ordinator has discretion over students who do not meet either of these criteria for entry into Honours.

*Assessment:* Unless otherwise specified all courses are examined in one 2-hour paper in a split diet. Courses studied in Junior Honours are examined at the end of year 3. Courses studied in Senior Honours are examined at the end of Year 4. Each examination paper is weighted as 70%, the class work contributes 30%.

*Degree Examination taken in:* May/June

*Aims:* The Honours courses in Economic and Social History aim: to develop an understanding of the processes of economic development and social change; to explore

the relationship between economic and social change; to provide understanding of the main patterns of economic and social change in the major economies to the present day; to relate the historical process of economic and social development to an understanding of contemporary issues.

*Honours Course Prescription:* Researching Economic and Social History 1 (Formerly Sources and Methods 1) and five from option list given below to be taken in Junior Honours year. Researching Economic and Social History 2 (Formerly Sources & Methods 2) plus five courses (or four and a dissertation) to be taken in Senior Honours year.

*Course Options:* British Economic Policy 1945-51: The Labour Governments; Economic and Social History of Eastern Europe, 1918-1989; Gender and Class in Britain c1800-1930; German Big Business in the 20th Century; Innovations in Western Medicine, 1790-1960, Social Origins and Cultural Impacts; Medicine, State and Society in Britain 1914-74; Nature's Economy: An introduction to the social history of ecological and environmental thought; Popular Culture in Britain 1870-c1939; Poverty and Progress: Britain 1885-1914; Saints and Sinners: The Religions of the people of early modern England; Scotland Since 1914; US Economy and Society since 1945.

*Course Co-ordinator:* Prof Eleanor Gordon

### 200G ECONOMIC AND SOCIAL HISTORY 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Satisfactory completion of 200F.

*Assessment:* Unless otherwise specified all courses are examined in one 2-hour paper at the end of the year. Courses studied in Junior Honours are examined at the end of year 3 - two papers taken. Courses studied in Senior Honours are examined at the end of Year 4 - four papers taken (or two papers plus dissertation). Each examination paper is weighted as 70%, the classwork representing 30% based on one essay (20%) and one project (10%) for each course.

*Degree Examination taken in:* May/June

*Aims:* The Honours courses in Economic and Social History aim: to develop an understanding of the processes of economic development and social change; to place industrialisation and its social consequences in a clear historical framework; to provide understanding of the main patterns of economic and social change in the major economies to the present day; to relate the historical process of economic and social development to an understanding of contemporary issues.

*Honours Course Prescription:* Researching Economic and Social History 1 (Formerly Sources and Methods 1) and two from option list given below to be taken in Junior Honours year. Researching Economic and Social History 2 (Formerly Sources & Methods 2) plus two courses (or a dissertation) to be taken in Senior Honours year. *Course Options:* British Economic Policy 1945-51: The Labour Governments; Economic and Social His-

tory of Eastern Europe, 1918-1989; Gender and Class in Britain c1800-1930; German Big Business in the 20th Century; Innovations in Western Medicine, 1790-1960, Social Origins and Cultural Impacts; Medicine, State and Society in Britain 1914-74; Nature's Economy: An introduction to the social history of ecological and environmental thought; Popular Culture in Britain 1870-c1939; Poverty and Progress: Britain 1885-1914; Saints and Sinners: The Religions of the people of early modern England; Scotland Since 1914; US Economy and Society since 1945.

*Course Co-ordinator:* Prof Eleanor Gordon

## 200J ECONOMIC AND SOCIAL HISTORY 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Satisfactory completion of 200H.

*Assessment:* Unless otherwise specified all courses are examined in one 2-hour paper in a split diet. Courses studied in Junior Honours are examined at the end of year 3 - six papers are taken. Courses studied in Senior Honours are examined at the end of Year 4 - eight papers are taken (or six papers plus dissertation). Each examination paper is weighted as 70%, the classwork contributes 30%, based on one essay (20%) and one project (10%) for each course.

*Degree Examination taken in:* May/June

*Aims:* The Honours courses in Economic and Social History aim: to develop an understanding of the processes of economic development and social change; to place industrialisation and its social consequences in a clear historical framework; to provide understanding of the main patterns of economic and social change in the major economies to the present day; to relate the historical process of economic and social development to an understanding of contemporary issues.

*Honours Course Prescription:* Researching Economic and Social History 1 (Formerly Sources and Methods 1) and five from option list given below to be taken in Junior Honours year. Researching Economic and Social History 2 (Formerly Sources & Methods 2) plus five courses (or four and a dissertation) to be taken in Senior Honours year.

*Course Options:* British Economic Policy 1945-51: The Labour Governments; Economic and Social History of Eastern Europe, 1918-1989; Gender and Class in Britain c1800-1930; German Big Business in the 20th Century; Innovations in Western Medicine, 1790-1960, Social Origins and Cultural Impacts; Medicine, State and Society in Britain 1914-74; Nature's Economy: An introduction to the social history of ecological and environmental thought; Popular Culture in Britain 1870-c1939; Poverty and Progress: Britain 1885-1914; Saints and Sinners: The Religions of the people of early modern England; Scotland Since 1914; US Economy and Society since 1945.

*Course Co-ordinator:* Prof Eleanor Gordon

## Economics

### 2NRU ECONOMICS 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Daily - 2.00 pm; Weekly tutorials during Semesters 1 and 2 at times to be arranged.

*Assessment:* In-course 2-hour unseen microeconomics examination in January. End-of-course 2-hour unseen macroeconomics examination in May/June.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The general aims of this course are to: 1. provide an overall introduction to economics starting with an examination of the operation of the market mechanism in theory and practice including international trade. This is followed by an examination of the working of the economy as a whole, and the purposes and methods of government activity in a "mixed" economy; 2. provide a foundation for further study of economics at Level 2; 3. encourage you to take responsibility for your own learning (self-directed learning), and to acquire skills relevant to a wide range of situations beyond this course: how to think analytically, to express yourself clearly and directly, and to employ information technology.

*Course Co-ordinator:* Dr William Huff

### 7JLV ECONOMICS 2

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* 1.00 pm Monday to Friday. Tutorials at times to be arranged.

*Requirements of entry:* Economics 1 at grade D

*Excluded Courses:* Economics for Business Administration 2. Economics 2 (Half Course).

*Assessment:* Macroeconomics class examination (December): 10%; 1 x Mathematical Economics Assignment (January): 10%; Microeconomics class examination (March): 10%; end of course examination in Macro, Micro, Mathematical Economics & Data Analysis (May/June): 70%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The main aims of this course are: to provide a solid foundation in intermediate macroeconomic and microeconomic analysis on which to build the more advanced theoretical and applied work of subsequent honours level Economics courses; to consider problems of macroeconomic adjustment in both a closed and an open economy and the potential role for policy in the face of unemployment and inflation; to build a familiarity with the basic tools of consumption and production theory, the operation of markets and optimisation in an economic context; to develop skills in using mathematics applied to economics problems; to develop a knowledge of, and an ability to use, the basic tools of economic data analysis.

*Course Co-ordinator:* Mr Robin Milne

### **SARV ECONOMICS FOR BUSINESS ADMINISTRATION 2**

*Credits:* 30

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* 1.00 pm Monday to Friday. Tutorials at times to be arranged.

*Requirements of entry:* Grade D in Economics 1

*Excluded Courses:* Economics 2. Economics 2 (Half Course).

*Assessment:* Macroeconomics class examination (December): 10%; 1 x Mathematical Economics assignment (January): 10%; Microeconomics class examination (March) 10%; end of course examination in Macroeconomics, Microeconomics and Mathematical Economics (May/June): 70%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The main aims of this course are: to provide a solid foundation in intermediate macroeconomic and microeconomic analysis on which to build more advanced theoretical and applied work in subsequent study in honours level Economics courses; to consider problems of macroeconomic adjustment in both a closed and an open economy and the potential role for policy in the face of unemployment and inflation; to build a familiarity with the basic tools of consumption and production theory, the operation of markets and optimisation in an economic context; to develop skills in using mathematics applied to economic problems.

*Course Co-ordinator:* Mr Robin Milne

### **9PTW ECONOMICS 3: HOUSING ECONOMICS**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* One 2-hour lecture per week, terms 1 and 2.

*Requirements of entry:* Grade D or above in either Economics 2 or Economics for Business Administration 2.

*Assessment:* The required essay length is 2,500 words.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of this course is to provide students with a clear grounding in the principles of housing economics and to demonstrate its importance in several realms of contemporary debates about policy, social welfare and urban economics.

*Course Co-ordinator:* Ms Jeanette Findlay

### **KNDW ECONOMICS 3: THE ECONOMICS OF NATURAL RESOURCES AND THE ENVIRONMENT**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* One 2-hour lecture per week, terms 1 and 2.

*Requirements of entry:* Grade D or above in either Economics 2 or Economics for Business Administration 2.

*Assessment:* The required essay length is 2,500 words.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of this course is to familiarise students with some of the main environmental issues facing society and the contribution that economic analysis can make towards their resolution.

*Course Co-ordinator:* Mr Anthony Gloyne

### **2NRF ECONOMICS 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Monday, 2.00 pm-4.00 pm. 4H: Monday and Tuesday at 3.00 pm. 3H/4H: other times to be arranged, depending on courses selected.

*Requirements of entry:* Grade C or better in Economics 2

*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%)

*Degree Examination taken in:* May/June

*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; and provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multidisciplinary areas that involve economics.

*Honours Course Prescription:* Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Government and the Economy; and FOUR from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The Inter-

national Economy and Development in Colonial South-east Asia; Globalization and Development in Southeast Asia; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; The Economics of Housing Markets; The Economics of Housing Policy; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy; Dissertation.

Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth and two courses in 3H, and Government and the Economy and two courses or a Dissertation in 4H.

BAcc and LLB students only take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth in 3H and Government and the Economy plus two courses in 4H (i.e. a total of 90 credits in Economics). They may not take an Economics dissertation. BAcc students are not permitted to take Financial Markets and Asset Pricing; Financial Markets and Corporate Finance as options. A student may submit no more than one dissertation as part of an Honours degree.

*Course Co-ordinator:* Mr Terence Moody

## 2NRH ECONOMICS 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Monday and Tuesday, 2.00pm-4.00 pm. 4H: Monday and Tuesday at 3.00 pm. 3H/4H: other times depending on courses selected

*Requirements of entry:* Grade C or better in Economics 2

*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%)

*Degree Examination taken in:* May/June

*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multi-disciplinary areas that involve economics.

*Honours Course Prescription:* Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1:

Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Government and the Economy; Dissertation; and EIGHT from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial South-east Asia; Globalization and Development in Southeast Asia; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; The Economics of Housing Markets; The Economics of Housing Policy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy.

Note that a student may take up to 60 credits from courses offered by another department (outside options), subject to the approval of the heads of departments involved.

Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications and four courses in 3H, and Government and the Economy; Dissertation and four courses in 4H.

*Course Co-ordinator:* Mr Terence Moody

## 2NRK ECONOMICS JH PRINCIPAL

*Credits:* 90

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Monday and Tuesday, 2.00 pm-4.00 pm. 4H: Monday and Tuesday at 3.00 pm. 3H/4H: other times depending on courses selected.

*Requirements of entry:* Grade C or better in Economics 2

*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%).

*Degree Examination taken in:* May/June

*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to

problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multidisciplinary areas that involve economics.

*Honours Course Prescription:* (This course is taken with a subsidiary language). Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Government and the Economy; Dissertation; and FOUR from: Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; The Economics of Housing Markets; The Economics of Housing Policy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy. Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications and two courses in 3H, and Government and the Economy, Dissertation and two courses in 4H.

*Course Co-ordinator:* Mr Terence Moody

### **3BKF ECONOMICS WITH BUSINESS ECONOMICS 3H (COMBINED)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Wednesday, 2.00 pm-4.00 pm. 4H: Thursday, 2.00 pm-4.00 pm. 3H/4H: other times depending on courses selected.

*Requirements of entry:* Grade C or better in Economics 2.

*Assessment:* Summative assessment comprises an in-

course exam or coursework (30%) and an end-of-course exam (70%)

*Degree Examination taken in:* May/June

*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multidisciplinary areas that involve economics.

*Honours Course Prescription:* Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance and FOUR from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; The Economics of Housing Markets; The Economics of Housing Policy; Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Government and the Economy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy; Dissertation.

Note: Accountancy cannot be combined with Business Economics. LLB students take only Economics of Business 1: Contracts and Governance and Economics of Business 2: Regulation and Business Strategy in 3H and Financial Markets and Asset Pricing; Financial Markets and Corporate Finance plus two courses in 4H (i.e. 90 credits in Economics).

Students will normally take Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy and two courses in 3H, and Financial Markets and Asset Pricing; Finan-

cial Markets and Corporate Finance and two courses in 4H.

*Course Co-ordinator:* Mr Terence Moody

## **6KCH ECONOMICS WITH BUSINESS ECONOMICS 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Monday, Tuesday and Wednesday, 2.00 pm-4.00 pm. 4H: Monday and Tuesday at 3.00 pm; and Thursday, 2.00 pm-4.00 pm. 3H/4H: other times depending on courses selected.

*Requirements of entry:* Grade C in Economics 2 or better.

*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%)

*Degree Examination taken in:* May/June

*Aims:* To develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; to develop students' knowledge and understanding of economic concepts, approaches and analytical methods with core emphasis on microeconomic and macroeconomic analysis, econometrics and the study of the modern corporation and the markets and environment in which it operates; to equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; to relate the academic study of economics to problems of economic policy and issues of public concern; to create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; to develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; to provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multidisciplinary areas that involve economics.

*Honours Course Prescription:* Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; Government and the Economy; Dissertation; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance and FOUR from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Inter-

est Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; The Economics of Housing Markets; The Economics of Housing Policy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy.

Note that a student may take up to 60 credits from courses offered by another department (outside options), subject to the approval of the heads of departments involved.

Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy and two courses in 3H, and Government and the Economy, Dissertation; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance and two courses in 4H.

*Course Co-ordinator:* Mr Terence Moody

## **2NRG ECONOMICS 4H (JOINT)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Monday, 2.00 pm-4.00 pm. 4H: Monday and Tuesday at 3.00 pm. 3H/4H: other times to be arranged, depending on courses selected.

*Requirements of entry:* Grade C or better in Economics 2

*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%). Government and the Economy is assessed by completion of five briefing notes (50%) and an end-of-course exam (50%).

*Degree Examination taken in:* May/June

*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multidisciplinary areas that involve economics.

*Honours Course Prescription:* Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Infla-

tion, Unemployment and Growth; Government and the Economy; and FOUR from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; The Economics of Housing Markets; The Economics of Housing Policy; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy; Dissertation.

Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth and two courses in 3H and Government and the Economy and two courses or a Dissertation in 4H.

BAcc and LLB students only take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth in 3H and Government and the Economy plus two courses in 4H (i.e. a total of 90 credits in Economics). They may not take an Economics dissertation. BAcc students are not permitted to take Financial Markets and Asset Pricing; Financial Markets and Corporate Finance as options. A student may submit no more than one dissertation as part of an Honours degree.

*Course Co-ordinator:* Mr Terence Moody

## 2NRJ ECONOMICS 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Monday and Tuesday, 2.00 pm-4.00 pm. 4H: Monday and Tuesday at 3.00 pm. 3H/4H: other times depending on courses selected

*Requirements of entry:* Grade C or better in Economics 2

*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%). Government and the Economy is assessed by completion of five briefing notes (50%) and an end-of-course exam (50%).

*Degree Examination taken in:* May/June

*Aims:* We aim to develop in students an appreciation of

the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multidisciplinary areas that involve economics.

*Honours Course Prescription:* Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Government and the Economy; Dissertation; and EIGHT from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; The Economics of Housing Markets; The Economics of Housing Policy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy.

Note that a student may take up to 60 credits from courses offered by another department (outside options), subject to the approval of the heads of departments involved.

Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications) and four courses in 3H and Government and the Economy, Dissertation and four courses in 4H.

*Course Co-ordinator:* Mr Terence Moody

**2NRL ECONOMICS SH PRINCIPAL***Credits:* 90*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* 3H: Monday and Tuesday, 2.00 pm-4.00 pm  
4H: Monday and Tuesday at 3.00 pm 3H/4H: other times depending on courses selected*Requirements of entry:* Grade C or better in Economics 2*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%). Government and the Economy is assessed by completion of five briefing notes (50%) and an end-of-course exam (50%).*Degree Examination taken in:* May/June*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multi-disciplinary areas that involve economics.*Honours Course Prescription:* (This course is taken with a subsidiary language). Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Government and the Economy; Dissertation; and FOUR from: Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; The Economics of Housing Markets; The

Economics of Housing Policy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy.

Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications and two courses in 3H and Government and the Economy, Dissertation and two courses in 4H.

*Course Co-ordinator:* Mr Terence Moody**3BKG ECONOMICS WITH BUSINESS ECONOMICS 4H (COMBINED)***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* 3H: Wednesday, 2.00 pm-4.00 pm. 4H: Thursday, 2.00 pm-4.00 pm. 3H/4H: other times depending on courses selected.*Requirements of entry:* Grade C or better in Economics 2.*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%)*Degree Examination taken in:* May/June*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to further studies in economics and related areas or in multi-disciplinary areas that involve economics.*Honours Course Prescription:* Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance and FOUR from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and



Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; The Economics of Housing Markets; The Economics of Housing Policy; Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Government and the Economy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy; Dissertation.

Note: Accountancy cannot be combined with Business Economics. LLB students take only Economics of Business 1: Contracts and Governance and Economics of Business 2: Regulation and Business Strategy in 3H and Financial Markets and Asset Pricing; Financial Markets and Corporate Finance plus two courses in 4H (i.e. 90 credits in Economics).

Students will normally take Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy and two courses in 3H, and Financial Markets and Asset Pricing; Financial Markets and Corporate Finance and two courses in 4H.

*Course Co-ordinator:* Mr Terence Moody

## **6KCJ ECONOMICS WITH BUSINESS ECONOMICS 4H (SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 3H: Monday, Tuesday and Wednesday, 2.00 pm-4.00 pm. 4H: Monday and Tuesday at 3.00 pm and Thursday, 2.00 pm-4.00 pm. 3H/4H: other times depending on courses selected

*Requirements of entry:* Grade C in Economics 2 or better.

*Assessment:* Summative assessment comprises an in-course exam or coursework (30%) and an end-of-course exam (70%). Government and the Economy is assessed by completion of five briefing notes (50%) and an end-of-course exam (50%).

*Degree Examination taken in:* May/June

*Aims:* We aim to develop in students an appreciation of the scope of economics and its relevance to a wide range of issues, including social, political and other issues of public concern; develop students' knowledge and understanding of economic concepts, approaches and analytical methods; equip students to apply knowledge and skills to the solution of theoretical and applied problems in economics; relate the academic study of economics to problems of economic policy and issues of public concern; create a learning environment that is receptive to the needs and views of students and encourages them to achieve their full potential; develop students' facility with a range of key cognitive and social skills, through the study of economics, that are relevant to intellectual and personal development and of value in employment and self-employment; provide students with a knowledge and skill base from which they can proceed to fur-

ther studies in economics and related areas or in multidisciplinary areas that involve economics.

*Honours Course Prescription:* Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy; Government and the Economy; Dissertation; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance and FOUR from:

Smith's Intellectual System; Smith and Political Economy; Economics of Industry 1: Basic Theories of Market Structures; Economics of Industry 2: Advanced Topics; Growth, Finance and Trade in Less Developed Countries; Economics of Development Policy in Less Developed Countries; Environmental Economics; Natural Resource Economics; International Trade; International Finance; The Economics of Work and Pay; Research and Methods in Applied Labour Economics; Science and Economics; Contrasts in Economic Thought; Advanced Macroeconomics 1: Government Debt, Interest Rates and Economic Growth; Advanced Macroeconomics 2: Economic Fluctuations, Unemployment and Inflation; Welfare Economics 1: Individual Choice and Values; Welfare Economics 2: Social Choice and Policy; The International Economy and Development in Colonial Southeast Asia; Globalization and Development in Southeast Asia; The Economics of Housing Markets; The Economics of Housing Policy; Regional Economics and the Scottish Economy 1: Analysis; Regional Economics and the Scottish Economy 2: Policy.

Note that a student may take up to 60 credits from courses offered by another department (outside options), subject to the approval of the heads of departments involved.

Students will normally take Microeconomic Analysis: Games and Theory; Macroeconomics Analysis: Inflation, Unemployment and Growth; Econometrics 1: Basic Statistics and Simple Linear Regression; Econometrics 2: Multiple Regression and Applications; Economics of Business 1: Contracts and Governance; Economics of Business 2: Regulation and Business Strategy and two courses in 3H and Government and the Economy, Dissertation; Financial Markets and Asset Pricing; Financial Markets and Corporate Finance and two courses in 4H.

*Course Co-ordinator:* Mr Terence Moody

## **Educational Studies**

### **2WCU FUNDAMENTALS OF EDUCATION 1A**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures Monday and Tuesday, 11.00 am-12.00 noon weekly. Seminars Wednesday or Friday 11.00 am-12.00 noon weekly.

*Requirements of entry:* General interest in education.

*Assessment:* One 2 hour written examination (50%). One essay in January (30%). Seminar work (20%).

Written examination resit.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) Introduction to the academic study of education; (2) discusses social and political aspects of education; (3) provides knowledge of the schooling systems of Scotland and England and relevant educational policy.

*Course Co-ordinator:* Mr John Dakers

## **2WDU FUNDAMENTALS OF EDUCATION 1B**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures Monday and Tuesday, 11.00 am-12.00 noon weekly. Seminars Wednesday or Friday 11.00 am-12.00 noon weekly.

*Requirements of entry:* Interest in education.

*Assessment:* One 2 hour written examination (50%). One essay in April (30%). Seminar work (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) Introduction to the academic study of education; (2) deals with the concepts of freedom, authority and punishment; (3) discusses the changing nature of equality in education.

*Course Co-ordinator:* Mr John Dakers

## **8JJV LEARNING SOCIETY: ISSUES IN MODERN EDUCATION 2**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures Monday, Tuesday and Wednesday 2.00 pm -3.00 pm weekly. Seminars Thursday 2.00 pm - 3.00 pm weekly.

*Requirements of entry:* Grade D or better in one or both level 1 Education courses (Fundamentals of Education A or B). Sociology 1 or Social Policy 1.

*Assessment:* One written examination (50%); one essay (Dec, Jan) (30%); Seminar work (20%). Written examination resit.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) To investigate twentieth century educational thought; (2) to discuss multicultural approaches to learning; (3) to assess recent changes in education policy and practice. Also see 7EYV under Adult and Continuing Education.

*Course Co-ordinator:* Mr John Dakers

## **9MGW DEVELOPING EDUCATIONAL PROVISION IN EUROPE**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Timetable is to be arranged

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course will: Develop understanding and insight into how theory of education has informed educational systems; Help students to make knowledge connections between educational theories and educational practices in history; Develop students qualitative research skills.

*Course Co-ordinator:* Mr John Dakers

## **9MDW SUPPORTING AND UNDERSTANDING LEARNERS AND LEARNING**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Times and days to be arranged. Two lectures per week (1 hour duration): twelve lectures per unit. Two units per course. One seminar per week, beginning week 3 of course: 8 seminars total

*Co-requisites:* Students should have successfully completed level 2 courses The learning society: issues in modern education and The learning society: adult and continuing education; or successfully completed level 2 courses in a social science subject.

*Assessment:* 1 class essay on a topic derived from the student's own research and reading and from the presented work of the class. This essay will be of 3000 words length and will be submitted in Semester 1; 1 formal end of course examination which will take place at the end of the semester in January in common with the assessment practice of the University. This examination will be of 3 hours duration and will test attainment of the learning outcomes of the course. All assessment of the Level 3 courses will be in accordance with the Code of Assessment of the University of Glasgow.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course will: Build upon understandings gained in Education 1 and 2 and cognate courses, by affording students deeper understanding and insight into how education works, both within the systems of the UK and beyond them; Develop student study skills, in particular accessing and using educational research; Develop understanding and skills in ICT and interactive work; Develop student discursive and interpretative skills through appropriate interactive and assessment activities; Provide students with a progression in the study of Education towards honours level within the University of Glasgow.

*Course Co-ordinator:* Mr John Dakers

## **Electronics & Electrical Engineering**

### **7LPU ELECTRONIC ENGINEERING 1X**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Assessment:* 30% Continuous Assessment - Class tests and laboratories. 70% Degree examination - 2 hours, no choice of questions

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* Digital Electronics aims to introduce basic concepts of digital electronics. Analogue Electronics aims to introduce the basic concepts of analogue electronic circuits and to apply these concepts to d.c. and a.c. circuits. Laboratory aims to give practical experience of designing and measuring analog and digital circuits. To illustrate lecture material with practical examples. To develop report writing skills.

*Course Co-ordinator:* Dr John Williamson

### 7LRU ELECTRONIC ENGINEERING 1Y

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Requirements of entry:* Electronic Engineering 1X

*Assessment:* 30% Continuous assessment - Class tests and laboratories. 70% Degree examination - 2 hours, no choice of questions.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Digital Electronics aims to introduce basic concepts of synchronous and asynchronous digital electronics. Analogue Electronics aims to apply the basic concepts of analogue electronics to practical circuits such as RC filters and amplifiers, both Op amp and transistor. Laboratory aims to give practical experience of designing and measuring analog and digital circuits. To illustrate lecture material with practical examples. To develop report writing skills.

*Course Co-ordinator:* Prof John Davies

### 7MEV ANALOGUE ELECTRONICS 2

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Requirements of entry:* Electronic Engineering 1X and 1Y. Engineering Mathematics EE1X and EE1Y or equivalent.

*Assessment:* 85% 2 hour exam and 15% lab record.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* 1. Analogue Signal Processing - To introduce the use of simple analogue building block in terms of terminal and transfer properties, to be able to calculate those properties for simple circuits based on operational amplifiers and bipolar transistors, and to combine these elements to match input and output transducers. 2. Laboratory - To reinforce theoretical material taught in lectures.

*Course Co-ordinator:* Dr John Williamson

### 7MAV COMPUTER ARCHITECTURE 2

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Requirements of entry:* Electronic Engineering 1X and 1Y

*Excluded Courses:* Computer Systems 2

*Assessment:* 100% Degree Examination - 2 hour paper;

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* 1. Computer Architecture aims to provide an introduction to computer processor and memory architectures, and to the design of personal computer systems. 2. Laboratory aims to provide practical experience of basic microprocessor architecture using simulations of digital systems from a parallel adder/subtractor to a simple digital computer.

*Course Co-ordinator:* Dr Martin MacAuley

### 7LTV DIGITAL ELECTRONICS 2

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Requirements of entry:* Electronics and Electrical Engineering 1X and 1Y

*Assessment:* 90% Degree Examination; 10% Course Work

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To analyse and design simple combinational and sequential digital logic systems.

*Course Co-ordinator:* Dr David Muir

### 0FWV ELECTRICAL CIRCUITS 2

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* 2 lectures weekly. 3 labs during the semester.

*Requirements of entry:* Electronic Engineering 1X and 1Y; Engineering Mathematics EE1X and EE1Y or equivalent

*Assessment:* 15% Course work, Laboratory and laboratory record book. 85% Degree examination - 2 hour paper with two sections. Section A is compulsory, 3 questions to be selected from Section B

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide a basic understanding of the behaviour of electrical circuits containing inductance, capacitance and resistance when transient DC and AC signals are applied to them. To establish the relationship between the forced transient solution and the impedance representation. Laboratory: To reinforce material taught in lectures, and to illustrate measurement and analysis techniques.

*Course Co-ordinator:* Prof Iain Thayne

### 5MCV ELECTRONIC DESIGN PROJECT 2

*Credits:* 10 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade D in Electronics and Electrical Engineering 1 and average of grade D in courses from Mathematics 1R, 1S, 1T, 1X, 1Y.

*Co-requisites:* Analog Electronics 2, Digital Electronics 2

*Assessment:* 50% assignments (project log book and report, component selection report); 50% class tests (2).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to the design and realisation of electronics systems to solve engineering problems, good engineering design practice, tools and materials relevant to electronics and electrical engineering. To provide initial training in the practical skills required by professional engineers.

*Course Co-ordinator:* Dr Fernando Rodriguez-Salazar

### 3KJV ENGINEERING ELECTROMAGNETICS 2

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* First term.

*Requirements of entry:* Engineering Physics EEI or equivalent

*Assessment:* 90% Degree Examination; 10% lab

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide an understanding of how electronic devices work, from the atomic level upwards; to show the origins of the important physical laws which govern device operation and give an introduction to the technology of semiconductor devices. To show how semiconductor physics can be used to predict the operation of common devices and to calculate the parameters needed for analysing circuits.

*Course Co-ordinator:* Prof Charles Ironside

### 7MBV EMBEDDED PROCESSORS 2

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Requirements of entry:* Introductory Programming 1 or Introductory Programming EE1, Electronic and Electrical Engineering 1X and 1Y

*Co-requisites:* Computer Architecture 2 or Computing Systems 2

*Assessment:* 80% Degree Examination - 2 hour paper; choice of 4 questions from 6. 10% Laboratory and 10% Assignment

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* 1. Assembly Language, Processor Application aims to provide an introduction to embedded processor systems and applications. To explain the operating principles and provide a functional understanding of assembly language, high level language (C), and interfacing or peripherals in an embedded processor system. 2. Laboratory aims to provide practical experience of programming a real microprocessor (the Motorola 6805) and of interfacing simple peripherals by writing small assembly and high level language programs.

*Course Co-ordinator:* Mr Fernando Rodriguez

### 3KJV ENGINEERING ELECTROMAGNETICS 2

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* To be advised

*Requirements of entry:* Grade D in Physics 1X and 1Y and average of grade D in courses from Mathematics 1R, 1S, 1T, 1X, 1Y

*Assessment:* 20 % Laboratory work and tutorials. Average mark of two laboratory reports and selected tutorials questions. 80% Degree Examination 2 hours.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To understand the basics of engineering electromagnetics, and its application to real problems. Computer aided modelling of field and flux patterns in real engineering components. Understanding and uses of different magnetic materials.

*Course Co-ordinator:* Prof David Hutchings

### 4A1H ELECTRONICS AND SOFTWARE ENGINEERING 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Varies

*Requirements of entry:* To enter Honours in Electrical and Software Engineering a student must: have a grade-point average of at least 12 (i.e. C) at the first attempt over all the pre-requisite Level 2 Computing Science courses; passed (grade D) every Electrical Engineering course that is a prerequisite for ESE3H.

*Assessment:* Each Computing Science course is assessed by examination and coursework as detailed in course descriptions.

*Degree Examination taken in:* May/June

*Aims:* The academic aim of the Electronic and Software Engineering (ESE) degree course is to provide students with a deep understanding of both hardware and software, and the skills to work with teams to design and build complete computerised systems. Students also choose selected topics to study in considerable depth; this means that the best Honours graduates are also equipped to enter research programmes. The professional aim is to provide the electronic engineering and software engineering education necessary to design computer systems that are embedded within larger engineering systems (e.g. flight control systems, industrial plant control systems). Graduates will need a broad knowledge of software and hardware, deep knowledge of selected topics, and extensive practical experience. The technology is changing so rapidly that knowledge of specific systems rapidly becomes obsolete. So, although the degree is regularly updated, the aim is to emphasise unchanging principles and to encourage independent study habits that will stand graduates in good stead throughout their professional careers. The degree also aims to give graduates experience of electronic and software engineering in an industrial context, to this end

and integral part of the degree is an industrial placement between the third and fourth years.

*Honours Course Prescription:* Level 3: Team Project ESE3, Advanced Programming 3, Operating Systems 3, Professional Software Development 3 Networked Systems Architecture 3 plus courses required by the Department of Electronics and Electrical Engineering and summer placement. For fuller details see our website [http://www.dcs.gla.ac.uk/courses/teaching/general/Progression\\_ESE.html](http://www.dcs.gla.ac.uk/courses/teaching/general/Progression_ESE.html).

*Course Co-ordinator:* Prof Raymond Welland

#### 4A1J ELECTRONICS AND SOFTWARE ENGINEERING 4H (SINGLE)

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Varies

*Requirements of entry:* A grade point average of at least 10 (i.e. D) over all CS courses plus a grade point average of at least 10 (i.e. D) over all E&EE courses, plus a grade of at least C in the ESE3H team project.

*Assessment:* Each Computing Science course is assessed by examination and coursework as detailed in course descriptions.

*Degree Examination taken in:* May/June

*Aims:* See ESE3H.

*Honours Course Prescription:* For details of available courses see our website [http://www.dcs.gla.ac.uk/courses/teaching/general/Progression\\_ESE.html](http://www.dcs.gla.ac.uk/courses/teaching/general/Progression_ESE.html).

*Course Co-ordinator:* Prof Raymond Welland

### English Language

#### 3YTU ENGLISH LANGUAGE 1A

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday, Tuesday, Thursday - 3.00 pm; weekly tutorials

*Excluded Courses:* English Language 1A/1B

*Assessment:* One two hour paper (80%); class assignment 20%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide: (1) an understanding of how language works, with particular reference to the contexts and structures of English; (2) skill in the use of basic tools describing and discussing language; (3) knowledge of the structure and development of English sounds, words and grammar; (4) knowledge of the history of the English language in its literary and social contexts; (5) an awareness of the effects of linguistic phenomena on different kinds of communication.

*Course Co-ordinator:* Prof Michael MacMahon

#### 5NHU ENGLISH LANGUAGE 1A AND 1B

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday - 3.00 pm; weekly tutorials.

*Requirements of entry:* As in present 1A and 1B

*Excluded Courses:* English Language 1A, English Language 1B

*Assessment:* Exercise (November) 10%; Class Test (Semester 1, Jan/Feb) 30%; Exercise (Semester 1, Feb/March) 10%; Degree examination (May/June) 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide: (1) an understanding of how language works, with particular reference to the contexts and structures of English; (2) skill in the use of basic tools describing and discussing language; (3) knowledge of the structure and development of English sounds, words and grammar; (4) knowledge of the history of the English language in its literary and social contexts; (5) an awareness of the effects of linguistic phenomena on different kinds of communication.

*Course Co-ordinator:* Prof Michael MacMahon

#### 3YWU ENGLISH LANGUAGE 1B

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Tuesday, Thursday - 3.00 pm; weekly tutorials.

*Co-requisites:* English Language course 1A as a co-requisite

*Excluded Courses:* English Language 1A/1B

*Assessment:* One two hour paper (80%); class exercise (20%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide (1) an understanding of how language works, with particular reference to the contexts and structures of English; (2) skill in the use of basic tools describing and discussing language; (3) knowledge of the structure and development of English sounds words and grammar; (4) knowledge of the history of the English language in its literary and social contexts; (5) an awareness of the effects of linguistic phenomena on different kinds of communication.

*Course Co-ordinator:* Prof Michael MacMahon

#### 7FPV ENGLISH LANGUAGE LEVEL 2

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday at 2.00 pm; weekly tutorials.

*Requirements of entry:* Level 1 English Language

*Assessment:* Continuous Assessment; Degree Examination

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To give students an overview of key issues and topics in modern and historical English Language, within an integrated framework.

*Course Co-ordinator:* Prof Graham Caie

### **3YTF ENGLISH LANGUAGE 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Class hour 12.00 noon for 3H, 10.00 am for 4H; other times to be arranged.

*Requirements of entry:* Usually at least a GPA of 26 in English Language 2

*Assessment:* Four papers taken in 4H year (75%); essay/seminar work (25%), optional dissertation in place of one paper, optional submission of set of essays for one of certain papers.

*Degree Examination taken in:* May/June

*Aims:* The English Language papers in this course enable students to explore a selection of topics in Medieval Language and Literature, the History of English and Scots, and Modern English Language in greater depth, and to relate these topics to each other, and, where relevant, to topics studied in another subject. Papers can be chosen in a wide range of combinations, though in some cases a Senior Honours paper may require previous study of a Junior Honours paper.

*Honours Course Prescription:* Four papers taken from: Culture and English Language Teaching; Grammars of English; History of English I; History of English II; History of Scots; Medieval English Literature I; Literary and Linguistic Computing for English; Reading the Past; From Script to Print; Medieval Latin; Medieval English Literature II; Old English Literature; Old French Literature; Old Icelandic; Onomastics: the History and Function of Names; Phonetics and Phonology I - Articulation and Accent; Phonetics and Phonology II - Experimental Phonetics and Phonological Theories; Pragmatics and Spoken Discourse; Semantics of English; Sociolinguistics; History of the Scottish Book; Written Text and Narrative.

*Course Co-ordinator:* Prof John Corbett

### **3YTH ENGLISH LANGUAGE 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Class hour 12 noon for 3H, 10.00 am for 4H; other times to be arranged.

*Requirements of entry:* Usually at least a GPA of 26 in English Language 2 and at least a grade point average of 10 in English Literature Level 1 (2 courses) or English Literature 1, none of these courses falling below grade D. Exceptionally, students may be admitted who have achieved the required points in English Literature and 32 grade points in English Language 1A and 1B, or English Language 1.

*Assessment:* Eight papers taken in 4H year (75%); essay/seminar work (25%), dissertation in place of one paper, optional submission of set of essays for one of certain papers.

*Degree Examination taken in:* May/June

*Aims:* The English Language papers in this course enable students to explore a selection of topics in Medieval Language and Literature, the History of English and Scots, and Modern English Language in greater depth, and to relate these topics to each other, and, where relevant, to topics studied in another subject. Papers can be chosen in a wide range of combinations, though in some cases a Senior Honours paper may require previous study of a Junior Honours paper.

*Honours Course Prescription:* Eight courses taken from: Culture and English Language Teaching; Grammars of English; History of English I; History of English II; History of Scots; Medieval English Literature I; Literary and Linguistic Computing for English; Reading the Past: From Script to Print; Medieval Latin; Medieval English Literature II; Old English Literature; Old French Literature; Old Icelandic; Onomastics: the History and Function of Names; Phonetics and Phonology I - Articulation and Accent; Phonetics and Phonology II - Experimental Phonetics and Phonological Theories; Pragmatics and Spoken Discourse; Semantics of English; Sociolinguistics; History of the Scottish Book; Written Text and Narrative.

*Course Co-ordinator:* Prof John Corbett

### **3YTG ENGLISH LANGUAGE 4H (JOINT)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Class hour 12.00 noon for 3H, 10.00 am for 4H; other times to be arranged.

*Requirements of entry:* Usually at least a GPA of 26 in English Language 2

*Assessment:* Four papers taken in 4H year (75%); essay/seminar work (25%), optional dissertation/extended essay in place of one paper, submission of set of essays for certain papers.

*Degree Examination taken in:* May/June

*Aims:* The English Language papers in this course enable students to explore a selection of topics in Medieval Language and Literature, the History of English and Scots, and Modern English Language in greater depth, and to relate these topics to each other, and, where relevant, to topics studied in another subject. Papers can be chosen in a wide range of combinations, though in some cases a Senior Honours paper may require previous study of a Junior Honours paper.

*Honours Course Prescription:* Four papers taken from: Culture and English Language Teaching; Germanic Philology; Grammars of English; History of English I; History of English II; History of Scots; Later Medieval English Literature; Literary and Linguistic Computing for English; Medieval English Manuscripts in Context; Medieval Latin; Early Middle English Literature; Old English Literature; Old French Literature; Old Icelandic; Onomastics: the History and Function

of Names; Phonetics and Phonology I - Articulation and Accent; Phonetics and Phonology II - Experimental Phonetics and Phonological Theories; Pragmatics and Spoken Discourse; Semantics of English; Sociolinguistics; Stylistics of Scottish Literature; Written Text and Narrative.

*Course Co-ordinator:* Prof John Corbett

### **3YTJ ENGLISH LANGUAGE 4H (SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Class hour 12 noon for 3H, 10.00 am for 4H; other times to be arranged.

*Requirements of entry:* Usually at least a GPA of 26 in English Language 2 and at least a grade point average of 10 in English Literature Level 1 (2 modules) or English Literature 1, none of these courses falling below grade D. Exceptionally, students may be admitted who have achieved the required points in English Literature and 32 grade points in English Language 1A and 1B, or English Language 1.

*Assessment:* Eight papers taken in 4H year (75%); essay/seminar work (25%), optional dissertation/extended essay in place of one paper, submission of set of essays for certain papers.

*Degree Examination taken in:* May/June

*Aims:* The English Language papers in this course enable students to explore a selection of topics in Medieval Language and Literature, the History of English and Scots, and Modern English Language in greater depth, and to relate these topics to each other, and, where relevant, to topics studied in another subject. Papers can be chosen in a wide range of combinations, though in some cases a Senior Honours paper may require previous study of a Junior Honours paper.

*Honours Course Prescription:* Eight courses taken from: Culture and English Language Teaching; Germanic Philology; Grammars of English; History of English I; History of English II; History of Scots; Later Medieval English Literature; Literary and Linguistic Computing for English; Medieval English Manuscripts in Context; Medieval Latin; Old and Early Middle English Literature; Old English Literature; Old French Literature; Old Icelandic; Onomastics: the History and Function of Names; Phonetics and Phonology I - Articulation and Accent; Phonetics and Phonology II - Experimental Phonetics and Phonological Theories; Pragmatics and Spoken Discourse; Semantics of English; Sociolinguistics; Stylistics of Scottish Literature; Written Text and Narrative.

*Course Co-ordinator:* Prof John Corbett

## **English Literature**

### **6YAU ENGLISH LITERATURE 1A: INTRODUCTION TO LITERARY STUDY**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Group 1: Monday to Friday - 11.00 am; seminars. Group 2: Monday to Friday - 12.00 noon; seminars.

*Assessment:* Tutorial attendance (10%); One essay (1500-2000 words) (30%) and one examination (2 hours) (60%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The overall aim of the course is to: (1) introduce students to a range of texts of different genres and historical periods; (2) develop their capacity for sensitive and detailed reading of texts; (3) develop their capacity in writing, and in group discussion, for the critical analysis of texts and the constructing of viable arguments about texts and the issues which arise from them.

*Course Co-ordinator:* Mr David Newell

### **4EDU ENGLISH LITERATURE 1B: WRITING AND SELF**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Group 1: Monday to Friday - 11.00 am; seminars. Group 2: Monday to Friday - 12.00 noon; seminars.

*Co-requisites:* Regular attendance and submission of work for English Literature 1A

*Assessment:* Tutorial attendance (10%); One essay (1500-2000 words) (30%) and one examination (2 hours) (60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to encourage close and attentive reading; (2) to develop literate writing skills; (3) to develop a capacity for informed and cogent argument; (4) to foster discussion and debate.

*Course Co-ordinator:* Dr Kirstie Blair

### **7EXV ENGLISH LITERATURE 2A:WRITING &IDEOLOGY**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Group 1: Monday to Friday - 10.00 am; seminars. Group 2: Monday to Friday - 11.00 am; seminars.

*Requirements of entry:* Grade D in English Literature 1A and 1B.

*Assessment:* Tutorial performance (10%); one essay (2000-3000 words) (30%); one examination (3 hours) (60%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To enable students: (1) to further and reinforce their capacity for detailed, informed and critical reading of texts; (2) to further and reinforce their capacity in writing and in group discussion, for the critical analysis of texts and the construction of viable arguments about texts and the issues which arise from them; (3) to develop their awareness of the ways in which aspects of

texts may generate or be generated by ideology; (4) to alert them to the broader cultural significance of literary production.

*Course Co-ordinator:* Mr Donald MacKenzie

### **7EWV ENGLISH LITERATURE 2B WRITING & TEXT**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Group 1: Monday to Friday - 10.00 am; seminars. Group 2: Monday to Friday - 11.00 am; seminars.

*Requirements of entry:* Grade D in English Literature 1A and 1B

*Co-requisites:* Regular attendance at tutorials and submission of class work for English Literature 2A

*Excluded Courses:* None

*Assessment:* Tutorial performance (10%); one essay (2000-3000 words) (30%); one examination (3 hours) (60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to build upon the knowledge of texts already acquired in earlier courses; (2) to build upon the various critical and analytical skills already acquired in earlier courses; (3) specifically to move from 1 and 2 to an awareness of the complex relationships that texts have with each other both formally and ideologically; (4) to develop some sense of how writing affects other cultural phenomena and is affected by them; (5) to demonstrate that the relationships suggested in 3 and 4 are subject to the pressures of time and place. Subject-specific skills: students should be able to: (1) analyse a text in an awareness of how its literary features relate to the writing practices of other texts; (2) give an account of the thematic content of a text with reference to how that content is presented; (3) compare the relationship between themes and textual strategies of texts on the course.

*Course Co-ordinator:* Dr Andrew Radford

### **3YYF ENGLISH LITERATURE 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday - 10.00 am for 3H, 12.00 noon for 4H; seminars.

*Requirements of entry:* Requirements of entry: at least Grade D in each of the two Level 1 English Literature courses. In Level 2 English Literature we normally ask for at least Grade B in one course and at least Grade C in the other course.

*Assessment:* Four courses assessed in 4H year (75%); essay/seminar work (25%); optional extended essay in place of any one course.

*Degree Examination taken in:* May/June

*Aims:* The aims of the different historical period papers are to enable students: (1) to increase literary knowl-

edge and awareness of a period in a general sense; (2) to understand aspects of the general context within which works of literature in a period are produced; (3) to increase and deepen knowledge and understanding of (selected) authors, texts and genres; (4) to achieve an awareness of the history and processes of writing in English; (5) to use this awareness to construct and develop individually selected areas of specialised enquiry.

*Honours Course Prescription:* Students are assessed in four courses, of which two must be from the period before 1900. Courses chosen from: Shakespeare, Literary Theory, Literature 1360-1540, Literature 1510-1660 (Renaissance and early seventeenth-century), Literature 1640-1785 (Restoration and Augustan), Literature 1780-1840 (Romantic), Literature 1830-1914 (Victorian), Literature since 1900 (Modern), American Literature I (nineteenth-century), American Literature II (twentieth-century), Literary and Linguistic Computing for English, Irish Literature 1880s to present-day. Students may also choose in 3H one course from a list of Topic Modules which will be taught and assessed in 4H.

*Course Co-ordinator:* Dr Stuart Gillespie

### **3YYH ENGLISH LITERATURE 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday - 10.00 am for 3H, 12 noon for 4H; seminars.

*Requirements of entry:* Requirements of entry: at least Grade D in each of the two Level 1 English Literature courses. In Level 2 English Literature we normally ask for at least Grade B in one course and at least Grade C in the other course; and at least Grade D in English Language Level 1.

*Assessment:* Eight courses assessed in 4H year (75%); essay/seminar work (25%); optional extended essay in place of one course.

*Degree Examination taken in:* May/June

*Aims:* The aims of the different historical period Papers are to enable students: (1) to increase students' literary knowledge and awareness of a period in a general sense; (2) to understand aspects of the general context within which works of literature in a period are produced; (3) to increase and deepen knowledge and understanding of (selected) authors, texts, and genres; (4) to achieve an awareness of the history and processes of writing in English; (5) to use this awareness to construct and develop individually selected areas of specialised enquiry.

*Honours Course Prescription:* Students are assessed in eight courses (although they may also submit an original composition), of which four must be from the period before 1900. Courses chosen from: Shakespeare, Literary Theory, Literature 1360-1540, Literature 1510-1660 (Renaissance and early seventeenth-century), Literature 1640-1785 (Restoration and Augustan), Literature 1780-1840 (Romantic), Literature 1830-1914 (Victorian), Literature since 1900 (Modern), American Literature I (nineteenth-century), American Literature II (twentieth-century), Literary and Linguistic Computing for English, Irish Literature 1880s to present-day. Stu-



dents may also choose in 3H up to two courses from a list of Topic Modules which will be taught and assessed in 4H.

*Course Co-ordinator:* Dr Stuart Gillespie

### **3YYG ENGLISH LITERATURE 4H (JOINT)**

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday - 10.00 am for 3H, 12.00 noon for 4H; seminars.

*Requirements of entry:* Requirements of entry: at least Grade D in each of the two Level 1 English Literature courses. In Level 2 English Literature we normally ask for at least Grade B in one course and at least Grade C in the other course.

*Assessment:* Four courses assessed in 4H year (75%); essay/seminar work (25%); optional extended essay in place of any one course.

*Degree Examination taken in:* May/June

*Aims:* The aims of the different historical period papers are to enable students: (1) to increase literary knowledge and awareness of a period in a general sense; (2) to understand aspects of the general context within which works of literature in a period are produced; (3) to increase and deepen knowledge and understanding of (selected) authors, texts and genres; (4) to achieve an awareness of the history and processes of writing in English; (5) to use this awareness to construct and develop individually selected areas of specialised enquiry.

*Honours Course Prescription:* Students are assessed in four courses, of which two must be from the period before 1900. Courses chosen from: Shakespeare, Literary Theory, Literature 1360-1540, Literature 1510-1660 (Renaissance and early seventeenth-century), Literature 1640-1785 (Restoration and Augustan), Literature 1780-1840 (Romantic), Literature 1830-1914 (Victorian), Literature since 1900 (Modern), American Literature I (nineteenth-century), American Literature II (twentieth-century), Literary and Linguistic Computing for English, Irish Literature 1880s to present-day. Students may also choose in 3H one course from a list of Topic Courses which will be taught and assessed in 4H.

*Course Co-ordinator:* Dr Catherine McLoughlin

### **3YYJ ENGLISH LITERATURE 4H (SINGLE)**

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday - 10.00 am for 3H, 12 noon for 4H; seminars.

*Requirements of entry:* Requirements of entry: at least Grade D in each of the two Level 1 English Literature courses. In Level 2 English Literature we normally ask for at least Grade B in one course and at least Grade C in the other course; and at least Grade D in English Language Level 1.

*Assessment:* Eight courses assessed in 4H year (75%); essay/seminar work (25%); optional extended essay in

place of one course.

*Degree Examination taken in:* May/June

*Aims:* The aims of the different historical period Papers are to enable students: (1) to increase students' literary knowledge and awareness of a period in a general sense; (2) to understand aspects of the general context within which works of literature in a period are produced; (3) to increase and deepen knowledge and understanding of (selected) authors, texts, and genres; (4) to achieve an awareness of the history and processes of writing in English; (5) to use this awareness to construct and develop individually selected areas of specialised enquiry.

*Honours Course Prescription:* Students are assessed in eight courses (although they may submit an original composition), of which four must be from the period before 1900. Courses chosen from: Shakespeare, Literary Theory, Literature 1360-1540, Literature 1510-1660 (Renaissance and early seventeenth-century), Literature 1640-1785 (Restoration and Augustan), Literature 1780-1840 (Romantic), Literature 1830-1914 (Victorian), Literature since 1900 (Modern), American Literature I (nineteenth-century), American Literature II (twentieth-century), Literary and Linguistic Computing for English, Irish Literature 1880s to present-day. Students may also choose in 3H up to two courses from a list of Topic Courses which will be taught and assessed in 4H.

*Course Co-ordinator:* Dr Catherine McLoughlin

### **87EG ENGLISH LITERATURE HONOURS DISSERTATION: BY EXTENDED ESSAY**

*Credits:* 30 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* No set timetable

*Assessment:* Summative grading in the form of 2 group tutorials and c. 10 hours of individual feedback-tutorials, as appropriate, on early drafts as part of individual supervision.

*Degree Examination taken in:* May/June

*Aims:* The course aims to: - allow students to carry out an independent academic study in a specific area related to but distinct from the work submitted at Honours for both General and Topic Courses; - allow students to conduct a research project under individual supervision and guidance; - provide students with the experience of carrying out individual research and using library resources and other research tools independently; - develop students' ability to construct and present sustained arguments on larger-scale specialised topics; - enable students to evaluate and implement the most suitable method and approach for their chosen topic; - develop good academic practice regarding use of sources and references to sources; - foster students' ability to work independently on a major project.

*Honours Course Prescription:* English Literature Honours dissertation required by GU regulations for degree of MA.

*Course Co-ordinator:* Dr Stuart Gillespie

## French

Please see the entries for the School of Modern Languages & Cultures, page 175.

## Geographical and Earth Sciences

### 4WGU EARTH SCIENCE 1X: INTRODUCTION TO THE EARTH

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday, Thursday, Friday - 9.00 am or 11.00 am; weekly laboratory; one day field excursion.

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* One two-hour examination at the end of the teaching period (50%). Laboratory assessment, and continuous assessment totalling 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide a basic introduction to the Geology of the Earth and other planets, for students who will normally not possess any prior knowledge of the subject, and in particular to: (1) develop students' ability to synthesize a wide range of data and to apply the synthesis to geological problems; (2) develop students' descriptive, observational and interpretational skills; (3) develop students' problem-solving capabilities in theoretical, practical and field situations.

*Course Co-ordinator:* Dr Martin Lee

### 4WHU EARTH SCIENCE 1Y: EVOLUTION OF THE EARTH

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Thursday, Friday - 9.00 am or 11.00 am; weekly laboratory; one day field excursion.

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* One two-hour examination at the end of the teaching period (50%). Laboratory assessment and continuous assessment totalling 50%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a basic introduction to the earth's history, its life and environments, and the applications of earth science, for students who will normally not possess any prior knowledge of the subject, and in particular to: (1) develop students' ability to synthesize a wide range of data and to apply the synthesis to geological problems; (2) develop students' descriptive, observational and interpretational skills; (3) develop students' problem-solving capabilities in theoretical, practical and field situations.

*Course Co-ordinator:* Dr Martin Lee

### JQWU GEOGRAPHY 1: LIVING IN A CHANGING WORLD

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures - 11.00 am Tuesday to Thursday; approximately fortnightly laboratories; approximately fortnightly tutorials.

*Requirements of entry:* This course may be taken as a unit in its own right, or may act as a foundation for two, three or four years of study of Geography leading to an Honours Degree. The course carries 40 credits although in special circumstances students will be permitted to exit the course following the class exam and be awarded 20 credits. There are no pre-requisites for entry to the course, although most of the class normally have "A" or "B" passes in Geography at Higher Grade.

*Assessment:* One 3 hour paper (40%). Continuous assessment (60%) (includes class exam, 2 class essays and assessed lab and tutorial exercises)

*Aims:* To introduce students through lectures, tutorials and essay work to the nature of: · human geography: issues of development and underdevelopment; identity, connections and social relations; · physical geography: aspects of climatology, geomorphology, hydrology and biogeography, as interacting environmental elements in the past and present; · human and physical inter-relations: climate change, biodiversity, resources and sustainability; · key skills in geographical analysis through basic data collection, interpretation and presentation.

*Course Co-ordinator:* Dr Hayden Lorimer

### 5YWV EARTH SCIENCE 2P: SOLID EARTH

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday, Wednesday, Friday - 9.00 am; laboratories Monday 2.00 pm-4.00 pm or Wednesday 2.00-4.00 pm and Friday 10.00 am or 2.00-4.00 pm; 6 days field work.

*Requirements of entry:* Level 1 Earth Science 1X

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* One two hour written examination (50%), laboratory assessments, and report based on the field training excursion totalling 50%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide students with an advanced understanding of geological processes, particularly at the global scale. Particular emphasis is placed on the acquisition and critical analysis of data through direct field investigation of rocks, and how interpretation of large-scale processes is inferred. Emphasis is placed on mineralogical, geochemical and petrographic study to analyse and characterise rocks, and how such understanding provides a sophisticated view of the processes, past and present, at work within the Earth.

*Course Co-ordinator:* Dr Zoe Shipton

**4WKV EARTH SCIENCE 2Q:  
PALAEOBIOLOGY***Credits:* 10*Level:* 2*When Taught:* Semester 1 (September - January)*Timetable:* Tuesday, Thursday - 9.00 am; laboratories Tuesday 2.00 pm-4.00 pm or Wednesday 11.00 am-1.00 pm.*Requirements of entry:* Level 1 Earth Science 1Y or L1 Biology courses.*Co-requisites:* None*Excluded Courses:* None*Assessment:* One hour written examination (60%), and one hour of assessed practical work (40%).*Degree Examination taken in:* January*Resit Examination taken in:* August/September*Aims:* To provide a core understanding of the history and development of life in the light of evolution, palaeoecology, palaeobiodiversity, and taxonomy. To provide a knowledge of the processes of fossilisation.*Course Co-ordinator:* Dr Zoe Shipton**4WLX EARTH SCIENCE 2R:  
SEDIMENTS AND STRATIGRAPHY***Credits:* 10*Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Monday, Wednesday - 9.00 am; laboratories Monday 2.00 - 4.00 pm or Wednesday 2.00 - 4.00 pm and Friday 10.00 - 12 noon or 2.00 - 4.00 pm (shared with 2U); One day of field work.*Requirements of entry:* Level 1 Earth Science 1Y*Co-requisites:* None*Excluded Courses:* None*Assessment:* One hour written examination (70%), laboratory assessment (20%), and a report based on the day excursion (10%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* To provide students with an understanding of the key principles of stratigraphy and sedimentology, and to show the use of these subjects with other geological information to determine Earth history. Particular reference is made to the identification of past major tectonic regimes. The links between sedimentation and tectonics are emphasised by the application of the methods of cyclical stratigraphy.*Course Co-ordinator:* Dr Zoe Shipton**9TSV EARTH SCIENCE 2U -  
STRUCTURE, MAPS AND  
EXPLORATION***Credits:* 20*Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Lectures, Tuesday, Friday - 9.00-10 am. Laboratories, Monday or Wednesday 2.00-4.00pm, Tuesday 2.00-4.00pm or Wednesday 11.00-1.00pm and Friday 10.00-12.00 or 2.00-4.00pm*Excluded Courses:* None*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* Structures: To: 1. Explain in outline how rock materials respond to loading under different conditions within the Earth's crust. 2. Provide a sound foundation and rigorous terminology for describing the morphology and orientation of structures, and their component parts, in 3-D space. 3. Describe and discuss the models and mechanisms which have been proposed for the formation of discontinuities, folds, and fabrics in rocks. 4. Explain how different and apparently unrelated types of structure can develop together as a result of a single, progressive deformation. 5. To understand how geological structures relate to geological maps. Geological maps To: 1. Provide a series of map exercises which present a logical progression from the construction and use of structure contours on simple problem maps, to the analysis of fold and fault geometries on published BGS maps. 2. Improve map reading skills, especially the 3-D visualisation of geological relationships and structures using only the outcrop pattern and the shape of the topographic surface. 3. Emphasise the value of preparing synoptic maps, and drawing fully integrated, true-scale, vertical cross-sections, to illustrate the geology of an area. 4. Demonstrate the need for a rigorous, quantitative, approach to map work, and appreciate its application to geological exploration. Exploration: To: 1. Understand the principles of geological exploration by a practical understanding of the techniques of geological mapping as a field exercise. 2. Gain an understanding of the principles of exploration for mineral resources using the coal and aggregate industries as examples: Coal: 1. Explain the concept of the Global Carbon Cycle and the existence of major carbon pools. 2. Describe the Lithospheric Carbon Pool and the role of carbonaceous rocks within it. 3. Explain the formation of coal deposits. 4. Illustrate the concept of reserves and resources as applied to coal. 5. Explain and contrast deep mining and opencasting of coal reserves. 6. Illustrate opencasting practice by reference to the UK opencasting industry. 7. Explain the environmental impact of coal extraction and use. Aggregates: 1. Explain the annual requirements of the UK construction industry for broken rock/gravel (aggregates). 2. Explain the uses for aggregates. 3. Show how rock is extracted and how geological constraints govern extractability. 4. Indicate how rock is broken to size in the quarry, and the engineering and statutory constraints on aggregate quality and composition. 5. Explain how aggregates are tested using physical, mechanical and chemical tests. 6. Illustrate the uses of aggregates in concrete production and road building.*Course Co-ordinator:* Dr Zoe Shipton**201C GEOGRAPHY 2 (ORDINARY)***Credits:* 60*Level:* 2*When Taught:* Full Session (September - June)*Timetable:* Daily - 10.00 am; weekly laboratory at 2 pm - 4 pm on either Monday, Tuesday, Wednesday or Thursday; approximately 10 fortnightly tutorials: field class for intending Honours students (c. 7 days) in Easter

vacation.

*Requirements of entry:* Grade D in Geography 1.

*Assessment:* CA consists of 2 class essays (25% in total); tutorials (10% in total); practical work (12.5% in total), class test 12.5% and a Degree Examination in June (40%) which equals 100%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims: (1) to demonstrate the geographical implications, expressed in economic, political and cultural terms, of shifts in the world economy; to investigate how global changes impact on localities in economic, cultural and political terms; to demonstrate the importance of periodisation within the framework of geopolitical change; to investigate knowledge and power relations and their global and local implications on identities and resistances; to emphasise the role of the theory/evidence nexus in human geography; (2) to examine the operation and effects of major processes in physical geography; to interrelate process and form; to demonstrate change in landform and process over time and (3) to illustrate the environmental approach to analysing contemporary geographical topics, and to critically assess global environmental issues, demonstrating linkages between physical and human geography on the ground and the problems they pose for policy makers: (1) Reading and Writing skills - the ability to precis and, through oral and written presentation, develop skills of critical evaluation; (2) Bibliographic skills - students will be expected to read widely and to make full use of library resources. (Training on the proper use of GUL, including computer searches, is included with the Level 2 programme); (3) Presentation skills - as part of the field class, group projects are researched, analysed and presented in front of an audience.

*Course Co-ordinator:* Dr Paul Routledge

#### 4WGW EARTH SCIENCE 3

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Teaching will take place at arranged times throughout both semesters. A weekly timetable is provided to students detailing class times and locations. Fieldwork is carried out during the Easter Vacation and Semester 2.

*Requirements of entry:* GPA of 11 at end of Level 2; completion of all credit-bearing courses from Level 2 at Grade D or better.

*Assessment:* Assessment; 3; Core 50%; Options 37.5%; Portfolio [Skills I] 12.5%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a degree course which will impart a full knowledge of Earth Science, giving students and graduates access to all areas of the subject; to provide detailed specialist knowledge of the subject areas relevant to current practice in academic and applied Earth Science; to develop the intellectual skills of learning, application, initiative and critical ability; to develop conceptual, analytical, spatial and field skills within the

framework of Earth Sciences; to provide the transferable, technical and professional skills for future careers, including the skills of teamwork, self-reliance and communication; to provide an exposure to current research methods and thought in Earth Science.

*Course Co-ordinator:* Dr Brian Bell

#### 4WGH EARTH SCIENCE 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Teaching will take place at arranged times throughout both semesters. A weekly timetable is provided to students detailing class times and locations. Fieldwork is carried out during the Easter Vacation, Semester 2 and the Summer Vacation.

*Requirements of entry:* GPA of 11 at end of Level 2; completion of all credit-bearing courses from Level 2 at Grade D or better.

*Excluded Courses:* None

*Assessment:* Assessment; 3/3H; Core 50%; Options 37.5%; Portfolio [Skills I] 12.5%; Carry forward to 4H 40%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a degree course which will impart a full knowledge of Earth Science, giving students and graduates access to all areas of the subject; to provide detailed specialist knowledge of the subject areas relevant to current practice in academic and applied Earth Science; to develop the intellectual skills of learning, application, initiative and critical ability; to develop conceptual, analytical, spatial and field skills within the framework of Earth Sciences; to provide the transferable, technical and professional skills for future careers, including the skills of teamwork, self-reliance and communication; to provide an exposure to current research methods and thought in Earth Science.

*Honours Course Prescription:* The Earth Science Core Programme must be taken: Year 3 - Stratigraphy; Sediments/Superficial Deposits; Igneous Petrology/Geochemistry; Metamorphic Geology; Isotopes; Structural Geology; Maps; Landscape Evolution I; Portfolio [Skills I]; Fieldwork Programme Oban/Mull; Asynt., of which the lecture content of: stratigraphy; geochemistry; igneous/metamorphic petrology; sediments/superficial deposits only examined at January diet (or as determined by timetabling in any one session (credit equivalent)). Year 4: Major Earth Processes; Geophysics; Maps; Portfolio [Skills II]; Research Project. Options, on an alternating year system, will be chosen from: Year A - Coastal Processes and Forms; Crustal Fluids; Engineering Earth Science; Environmental Biogeochemistry; Fluvial Systems; Fluvial Processes; Long Term Landscape Evolution II; Quaternary Environments; Environmental Earth Science. Year B - Conservation; Economic and Environmental Mineralogy; Geotechnology and Geomorphology of Superficial Deposits; Glacial Geology and Geomorphology; Palaeobiosystems; Palaeoclimatology and Environmental Change; Polar Environments; Theoretical Geomorphology; Quaternary Earth Science.

*Course Co-ordinator:* Dr Brian Bell

### 5A8H GEOGRAPHY (SCI) 3H (SING)

*Credits:* 130

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday and Thursday - 10.00 am for compulsory courses. Option courses at times to be advised.

*Requirements of entry:* At least Grade B in Level 2 Geography and attendance at the Level 2 Geography field class and completion of a satisfactory field notebook.

*Assessment:* First diet of a split diet Honours examination. Three option papers, each with either (a) a 3 hour degree examination (67%) and continuous assessment (33%); or (b) a 1.5 hour degree examination (33%) and continuous assessment (67%). All Honours students must attend a compulsory field class during the Easter Vacation. The Dissertation is commenced during Level-3H and completed during Level-4H.

*Degree Examination taken in:* May/June

*Aims:* The Honours Geography programme has the following aims: (1) to provide a sound overall knowledge and awareness of theory and practice in Human and Physical Geography, within the context of space and place; (2) to develop specialist conceptual, analytical, spatial and fieldwork skills, centrally embedded within the context of a geographic education; (3) to develop problem-oriented, enquiring minds, emanating from staff research feeding into the teaching programmes, so that undergraduates are exposed to contemporary issues in Geography; (4) to develop generic (transferable) skills, which are easily adaptable to the needs of the labour market, particularly those of communication (written, oral and graphical) and teamwork; (5) to develop initiative, self-reliance and critical ability.

*Honours Course Prescription:* Geographic Thought and Geographical Techniques and THREE from Physical and Human option courses listed below. Physical courses: Coastal Processes and Coastal Environments & Management; Conservation; Environmental Hazards 1 & 2; Fluvial Processes/Fluvial Systems; Glacial Geomorphology; Quaternary Environments 1 & 2; Landscape Evolution 1 & 2; Theoretical Geomorphology; Polar Environments. Human courses: Agricultural Geography; Cultural Geography; Historical Geography of Social Policy; Changing Landscapes of Work and Employment; Political Geography; Developing World Cities; Cities, Change and Conflict; Geographies of Colonialism and Post-colonialism; Social Geography of Outsiders; Africa; Celtic Geographies; Geographies of Resistance; Latin America. No Group: Geographic Information Systems. Students are required to take at least one Human and one Physical course within the set of six across the 3H and 4H years.

*Course Co-ordinator:* Prof Ronan Paddison

### 4UXW GEOGRAPHY 3B

*Credits:* 90

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday and Thursday - 10.00 am and at other times to be arranged. Classes are taken in common with 3H. Weekly laboratories at 11-1 on Tue or Wed or Thurs.

*Requirements of entry:* Grade D in Geography 2

*Assessment:* 2 options (67%): a 3 hour degree examination for each (22% or 11.5%) with continuous assessment (11.5% or 22%); techniques labs (7%), thought essay (6%) and project (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To afford students the opportunity to gain in-depth knowledge of two parts of the discipline. To develop skills of problem formulation, data acquisition and analysis, and report presentation within a time-constrained framework. To develop skills relating to the analysis and manipulation of geographic data. To develop oral and communication skills. To provide the student with basic skills in the use of computers in geography. To develop critical skills, ensuring that students are able to discuss competently current debates within the discipline. To provide students with a broad understanding of the nature of geography as an academic discipline.

*Course Co-ordinator:* Prof Ronan Paddison

### 4UYW GEOGRAPHY 3C

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday and Thursday - 10.00 am and at other times to be arranged. Classes are taken in common with Junior Honours. Weekly laboratories at 11-1 on Tue or Wed or Thurs.

*Requirements of entry:* Grade D in Geography 2

*Assessment:* 3 options (75%): for each a 3 hour degree examination (17% or 8%) and continuous assessment (8% or 17%); project (17%); techniques labs (4%); thought essay (4%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To afford students the opportunity to gain in-depth knowledge of three parts of the discipline; to develop skills of problem formulation, data acquisition and analysis, and report presentation within a time-constrained framework; to develop skills relating to the analysis and manipulation of geographic data; to develop oral and communication skills; to provide the student with basic skills in the use of computers in geography; to develop critical skills, ensuring that students are able to discuss competently current debates within the discipline; to provide students with a broad understanding of the nature of geography as an academic discipline.

*Course Co-ordinator:* Prof Ronan Paddison

### 5A8F GEOGRAPHY 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday and Thursday - 10.00 am for compulsory courses. Option courses at times to be advised.

*Requirements of entry:* At least Grade B in Level 2 Geography and attendance at the Level 2 Geography field class and completion of a satisfactory field notebook. Acceptance into Honours by the other joint subject.

*Assessment:* First diet of a split diet Joint Honours Examination. Three option papers over a two year period, each with either (a) a 3 hour degree examination (67%) and continuous assessment (33%); or (b) a 1.5 hour degree examination (33%) and continuous assessment (67%). The decision on the percentage weighting of assessment for an individual course option will be made by the course option tutor. However, students will be made aware of the means of assessment for all course options before the start of the academic year. All Joint Honours students must attend a compulsory field class during the Easter Vacation. Joint Honours students take EITHER an 8000 word dissertation which is commenced during Level 3H and completed during Level 4H OR a compulsory core course.

*Degree Examination taken in:* May/June

*Aims:* The Honours Geography programme has the following aims: (1) to provide a sound overall knowledge and awareness of theory and practice in Human and Physical Geography, within the context of space and place; (2) to develop specialist conceptual, analytical, spatial and fieldwork skills, centrally embedded within the context of a geographic education; (3) to develop problem-oriented, enquiring minds, emanating from staff research feeding into the teaching programmes, so that undergraduates are exposed to contemporary issues in Geography; (4) to develop generic (transferable) skills, which are easily adaptable to the needs of the labour market, particularly those of communication (written, oral and graphical) and teamwork; (5) to develop initiative, self-reliance and critical ability from a solid foundation of knowledge and understanding and critical awareness.

*Honours Course Prescription:* Geographic Thought and Geographical Techniques and ONE course chosen from Physical and Human option courses listed in Geography 3H (Single)

*Course Co-ordinator:* Prof Ronan Paddison

#### **4WQJ EARTH SCIENCE 4H (SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Teaching will take place at arranged times throughout both semesters. A weekly timetable is provided to students detailing class times and locations. Fieldwork is carried out during the Easter Vacation, Semester 2 and the Summer Vacation.

*Requirements of entry:* GPA of 11 at end of Level 2; completion of all credit-bearing courses from Level 2 at Grade D or better.

*Co-requisites:* GPA of 11 at end of Level 2; completion of all credit-bearing courses from Level 2 at Grade D or better.

*Excluded Courses:* None

*Assessment:* Independent Fieldwork Dissertation or Field-Based Dissertation 33%; Presentation Skills 17%; Continual Assessment (Fixed Excursion Programme, Computing/IT, Paleontology/Stratigraphy Assessment, Igneous/Metamorphic Petrology Assessment, Mapwork Assessment) 50%.

*Degree Examination taken in:* May/June

*Aims:* To provide a degree course which will impart a full knowledge of Earth Science, giving students and graduates access to all areas of the subject; to provide detailed specialist knowledge of the subject areas relevant to current practice in academic and applied Earth Science; to develop the intellectual skills of learning, application, initiative and critical ability; to develop conceptual, analytical, spatial and field skills within the framework of Earth Sciences; to provide the transferable, technical and professional skills for future careers, including the skills of teamwork, self-reliance and communication; to provide an exposure to current research methods and thought in Earth Science.

*Honours Course Prescription:* The Earth Science Core Programme must be taken: Year 3 -Stratigraphy; Sediments/Superficial Deposits; Igneous/Metamorphic Petrology; Geochemistry/Isotopes; Structural Geology; Maps; Technical and Transferable Skills. Year 4: Palaeontology/Stratigraphy; Sediments/Superficial Deposits; Geophysics; Maps; Technical and Transferable Skills; Major Earth Processes; Integrated Field Studies. Options, on an alternating year system, will be chosen from: Year A - Basin Processes and Petroleum; Coastal Processes and Forms; Crustal Fluids; Engineering Earth Science; Environmental Biogeochemistry; Fluvial Systems ; Fluvial Processes; GIS; Laboratory Project or Dissertation; Long Term Landscape Evolution I and II; Quaternary Environments; Environmental Earth Science. Year B - Conservation; Economic and Environmental Mineralogy; Geotechnology and Geomorphology of Superficial Deposits; GIS; Glacial Geology and Geomorphology; Palaeobiosystems; Palaeoclimatology and Environmental Change; Polar Environments; Theoretical Geomorphology. Fieldwork Programme: Basin Studies; Advanced Geological Fieldwork Skills; Terranes; Mineral Exploration; Highway Engineering; Active Orogen Studies; Advanced Basin Studies; Environmental Biogeochemistry; Quaternary Earth Science. Micropalaeontology offered as an option on a yearly basis.

*Course Co-ordinator:* Dr Brian Bell

#### **5YTJ ENVIRONMENTAL CHEMISTRY AND GEOGRAPHY 4H**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Year 3: Monday 10.00; Monday 11.00 (weeks 1-10); Tues, Thurs, Fri 10.00 (weeks 1-15); Tues, Thurs 9.00 (weeks 1-10). Option course during semester 1: Mon/Wed/Thurs 11.00-1.30; Tues, Wed, Thurs 1400-1700 (weeks 1-10), Easter Vacation Field Work Semester 2 field work 6 days. Year 4: Tues, Thurs, Fri 10.00 (weeks 1-15); Mon 10.00 (weeks 1-10); Mon 12.00 (weeks 1-10); Tues 11.00 (weeks 1-10). 2 option courses (semester 1) Dissertation fieldwork as

scheduled; Laboratory project as scheduled.

*Requirements of entry:* Grade D in or better in Environmental Chemistry and Geography 3H

*Assessment:* Chemistry (Environmental) Third Year: Jun 3 hr exam 6; Jun 3 hr exam 9; Continuous assessment 13; Final Year: Jun 1.5 hr exam 6; Jun 2 hr exam 9; Jun 1.5 hr essay paper 6; Project 27. Geography: Third Year Jun 3 hr exam 18; Continuous assessment field work project 13; Laboratory continuous assessment 9; Final Year: Jun. 3 hr exam plus continuous assessment 18; Jun 3 hr exam plus continuous assessment 18; Jun 1.5 hr essay paper 6. Dissertation 18.

*Degree Examination taken in:* May/June

*Aims:* This degree course, taught jointly by the Chemistry (environmental) and Geography and Topographic Sciences Departments, will provide an integrated approach to the physical environment via an appreciation of the structure of surface environments, their dynamics and their management for the sustainable use of their resources. The degree course will give students specific experience in, and an understanding of, the landforming processes and resources of surface environments and the ways in which these have changed in the past and may change in the future (eg polar, coastal, fluvial, glacial, arid); and the sustainable use of environments. This programme of work aims to: stimulate an appreciation in the student of the importance of the surface environment; equip the student with a fundamental understanding of the nature and functioning of the surface environment and the effects of anthropogenic activity on it; provide the student with an advanced level of training, laboratory skills, field skills and critical assessment which allows them to gain employment in the broad area of the environmental industry.

*Honours Course Prescription:* Selected parts of Environmental Chemistry 3H/4H and Geography 3H/4H courses.

*Course Co-ordinator:* Dr Ian Pulford

## 9ATJ GEOGRAPHIC INFORMATION AND MAPPING SCIENCES 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* A timetable will be published at the start of each semester. There is a 2 week residential field course prior to the start of the 4H year.

*Requirements of entry:* C grade average in GIMS 3H with no more than 30 credits below grade D

*Assessment:* Details of assessment will depend on optional courses taken. Overall assessment scheme: Issues in Geomatics (15 credits) - 12.5%; Group Project (15 credits) - 12.5%; Individual Project (15 credits) - 12.5%; Geomatics option courses (2 x 15 credits) - 25%; Geography or Earth Science option(s) (30 or 2 x 15 credits) - 25%; Elective option (15 credits) - 12.5% Note: The Honours classification is weighted 40% on 3H, 60% on 4H

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To further develop a broad based education in Geomatics as an integrated field of study and endeavour building on the Level 2 & 3 courses; To provide further knowledge of Human Geography, Physical Geography or Earth Science, further enhancing the understanding of the world in which Geomatics knowledge and skills are applied; To enable students to implement, operate and manage systems providing geospatial information for decision makers, engineers, planners, etc.; To raise awareness of the professional environment of the Geomatics industry; To prepare students for further study, training and research in Geomatics in terms of academic qualifications, professional accreditation and continuous professional development (life long learning). In addition to subject specific skills, considerable emphasis is placed on the development of generic (transferable) skills, such as initiative, critical thinking, problem solving, time management and teamwork; information and communication technology skills; and the ability to communicate effectively in writing, orally and graphically. Individual course descriptions include more detailed aims.

*Honours Course Prescription:* Issues in Geomatics (15 credits); Group Project (15 credits); Individual Project (15 credits); Geomatics option courses (2 x 15 credits); Geography or Earth Science option(s) (30 or 2 x 15 credits); Elective option (15 credits).

*Course Co-ordinator:* Dr David Forrest

## 5A8G GEOGRAPHY 4H (JOINT)

*Credits:* 70

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Options at times to be arranged.

*Requirements of entry:* Grade D in Geography 3H (Joint)

*Assessment:* Second diet of a split diet Joint Honours. Three option papers over a two year period, each with either (a) a 3 hour degree examination (67%) and continuous assessment (33%); or (b) a 1.5 hour degree examination (33%) and continuous assessment (67%). The decision on the percentage weighting of assessment for an individual course option will be made by the course option tutor. However, students will be made aware of the means of assessment for all course options before the start of the academic year. Joint Honours students take EITHER an 8000 word dissertation which is commenced during Level 3H and completed during Level 4H OR a compulsory core course.

*Degree Examination taken in:* May/June

*Aims:* The primary aim of the course is to provide students with an appreciation of a variety of geographical issues and their associated methods of analysis. Aims for the Honours options may be found in the details of each specific course option. Aims of the dissertation can be found in the 3H Single Course information. The 4H Geography Lecture Course has five aims: (1) to develop critical reading and argument formulation skills; (2) to provide a forum in which to situate specialisms within a wider understanding of the discipline; (3) to enhance awareness of research approaches and their implications; (4) to provide guidance on the presentation of dissertations; and (5) to provide career orientation.

*Honours Course Prescription:* 4H Geography Lecture course must be taken and two from Physical and Human courses listed in Geography 4H (Single) excluding those courses already taken in 3H. In addition, students will take EITHER an 8000 word dissertation (commenced in 3H) or a compulsory core course.

*Course Co-ordinator:* Prof Ronan Paddison

### 5A8J GEOGRAPHY 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade D in Geography 3H (Single)

*Assessment:* Second diet of a split diet Honours examination. Three option papers, each with either (a) a 3 hour degree examination (67%) and continuous assessment (33%); or (b) a 1.5 hour degree examination (33%) and continuous assessment (67%). The decision on the percentage weighting of assessment for an individual course option will be made by the course option tutor. However, students will be made aware of the means of assessment for all course options before the start of the academic year. One compulsory course and one 8000 word dissertation.

*Degree Examination taken in:* May/June

*Aims:* The primary aim of the course is to provide students with an appreciation of a variety of geographical issues and their associated methods of analysis. Aims for the Honours options may be found in the details of each specific course option. Aims of the dissertation can be found in the 3H Single Course information. The 4H Geography Lecture Course serves to: (1) develop critical reading and argument formulation skills; (2) provide a forum in which to situate specialisms within a wider understanding of the discipline; (3) enhance awareness of research approaches and their implications; (4) provide guidance on the presentation of dissertations; and (5) provide career orientation.

*Honours Course Prescription:* 4H Geography Lecture Course must be taken and three from Physical and Human courses listed in Geography 4H (Single) excluding those courses already taken in 3H. Students are required to take at least one Human and one Physical course within the set of six across the 3H and 4H years.

*Course Co-ordinator:* Prof Ronan Paddison

## German

Please see the entries for the School of Modern Languages & Cultures, page [180](#).

## Hispanic Studies

Please see the entries for the School of Modern Languages & Cultures, page [185](#).

## History

### 4NCU HISTORY 1A: MAKING OF EUROPE: THREE ORDERS 800- 1500

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Class hour 10.00 am every weekday

*Requirements of entry:* All students admitted to the University will be eligible to enrol in this course.

*Assessment:* Examination 60% (held at end of course), essay 30%, seminar contribution 10%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad introduction to the main features of European history from AD 800 to 1500, taking into account that you may not have covered most (or any) of this period before; to offer you a fresh and stimulating approach to the major forces instrumental in the shaping of politics, society and culture in Europe; to make you aware of the current approaches on European History, and of the areas of particular controversy and debate; to encourage you to think broadly, comparatively and conceptually across a wide area and a long period of time; to provide a secure foundation of knowledge and skills which will enable you to proceed with confidence to Level 2.

*Course Co-ordinator:* Dr Marilyn Dunn

### 4NDU HISTORY 1B: MAKING OF EUROPE: NATION, COMMUNITY & CONFLICT 1500- 2000

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Class hour 10.00 am every weekday.

*Requirements of entry:* All students admitted to the University will be eligible to enrol in this course.

*Assessment:* Examination 60% (held at end of course), essay 30%, seminar contribution 10%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide you with a broad introduction to the main features of European history from 1500 to the present, taking into account that you may not have covered most (or any) of this period before; to offer you a fresh and stimulating approach to the major forces instrumental in the shaping of politics, society and culture in Europe; to make you particularly aware of recent innovative approaches to the study of specific themes within European history; to encourage you to think broadly, comparatively and conceptually across a wide area and a long period of time; to provide a secure foundation of knowledge and skills which will enable you to proceed with confidence to Level 2.

*Course Co-ordinator:* Prof Evan Mawdsley



### 6BDU HISTORY 1C: THE INDEPENDENT KINGDOM OF SCOTLAND 1100 -1707

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Class hour 12 noon every weekday

*Requirements of entry:* All students admitted to the University will be eligible to enrol in this course.

*Assessment:* Examination 60% (held at end of course), essay 30%, seminar contribution 10%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide you with a knowledge of Scottish History from 1100 to the Union of 1707 and of the forces which helped shape Scotland's development, taking into account the fact that many of you may not have covered this period before; within this narrative, to give due weight to political, social, economic, religious and cultural developments; to make you aware of the current approaches being taken by historians towards the history of Scotland, and of the areas of particular controversy and debate; to enhance your critical and analytical skills - expressed in essays, examination, and discussion in seminars - through your study of the work of Scottish historians; to provide a secure foundation of knowledge and skills which will enable you to proceed with confidence to Level 2.

*Course Co-ordinator:* Dr Dauvit Brown

### 9TMV HISTORY 2 SCO: SCOTLAND THE STATELESS NATION

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Class hour 11.00 a.m. every weekday.

*Requirements of entry:* Grade D or better in any ONE level 1 course in History or Economic and Social History.

*Assessment:* Examination 60% (held at end of course), essay 20%, assessed seminar paper 10%, overall seminar contribution 10%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* 1. To give you an understanding of key themes in modern Scottish history based upon primary and secondary sources. 2. To place particular emphasis upon the issue of Scotland's complex and changing identities in the era of the 'stateless nation'. 3. To introduce you to a range of primary sources with illuminating key themes. 4. To improve your presentational and analytical skills through assessed seminar reports and discussion. 5. To provide a secure foundation of skills in the handling of different types of primary and secondary sources, enabling you to proceed with confidence to Honours.

*Course Co-ordinator:* Dr Martin MacGregor

### 7ELV HISTORY 2AM: SOCIETY, CULTURE & POLITICS IN NORTH AMERICA

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Class hour 4.00 pm every weekday

*Requirements of entry:* Grade D or better in any ONE level 1 course in History or Economic and Social History

*Assessment:* Examination 60% (held at end of course), essay 20%, assessed seminar paper 10%, overall seminar contribution 10%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To familiarise you with fundamentally significant eras and themes in the history of the portion of North America that became the United States, covering the period between first contact between Native Americans and Europeans in 1492 and the present; to improve your critical and evaluative skills in the handling of a variety of primary and secondary sources, enabling you to proceed with confidence to Honours; to enhance your independence of judgment in dealing with conflicting interpretations of major issues; to improve your presentational and analytical skills through seminar reports and discussion.

*Course Co-ordinator:* Dr Phillips O'Brien

### 7EMV HISTORY 2EM:GOVERNMENT, CULTURE & SOCIETY IN EUROPE 1550-1715

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Class hour 2.00 pm every weekday

*Requirements of entry:* Grade D or better in any ONE level 1 course in History or Economic and Social History

*Assessment:* Examination 60% (held at end of course), essay 20%, assessed seminar paper 10%, overall seminar contribution 10%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To provide you with a sound understanding of key aspects of European history in the period 1550-1715, especially the growth of the state, common attitudes and habits of mind at the time, and relationships between groups in society; to improve your critical and evaluative skills in the handling of a variety of primary and secondary sources, enabling you to proceed with confidence to Honours; to enhance your independence of judgment in dealing with conflicting interpretations of major issues; to improve your presentational and analytical skills through seminar reports and discussion.

*Course Co-ordinator:* Dr Lionel Glassey

### 5YTV HISTORY 2MED: ENGLAND AND ITS NEIGHBOURS C.870-C.1450

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Class hour 2.00 pm Monday, Tuesday, Wednesday, Thursday and Friday

*Requirements of entry:* Grade D or better in any ONE level 1 course in History or Economic and Social History.

*Assessment:* Examination 60% (held at end of course), essay 20%, assessed seminar paper 10%, overall seminar contribution 10%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To give you an understanding of the political culture of England and its neighbours over the period from the Vikings to the Hundred Years War, including the political relationships within aristocratic elites, between king and nobility, and the contextualisation of military force in medieval politics; to improve your critical and evaluative skills in the handling of a variety of primary and secondary sources, enabling you to proceed with confidence to Honours; to enhance your independence of judgment in dealing with conflicting interpretations of major issues; to improve your presentational and analytical skills through seminar reports and discussion.

*Course Co-ordinator:* Prof Matthew Strickland

## **5ZAW FOLK BELIEF AND THE WITCH-HUNTS**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures 2 hours a week Seminars 1 hour a week

*Requirements of entry:* Completion of one History level 2 course at Band D or better, or one Economic and Social History level 2 course at Band D or better

*Assessment:* Primary Source Analysis 10% (students will write approx 1500 words on a primary source extract. The source may be a text or a visual representation) Essay 30% (students will write approx 3000 words) Seminar 20% (students will be assessed on an in-class oral presentation 10% and will participate in a peer review, subject to confirmation by the tutor, of general class participation throughout the semester 10%) Final Exam 40%

*Aims:* The principal aims of this course are: - to explore the role of the supernatural and witch belief in Europe, North America and Africa; - to examine the intellectual and folk attitudes towards witchcraft and belief in the supernatural, past and present; - to investigate the uniqueness of individual witch persecutions through such criteria as gender, age, social status and regional differences; - to examine the legal developments and political conditions that allowed witch persecutions to take place; - to develop and utilise various methodological approaches towards the study of mindsets, worldview, popular culture and belief.

*Course Co-ordinator:* Dr Lizanne Henderson

## **2XKW HISTORY 3 AM**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Please contact Department

*Requirements of entry:* Normally Faculty of Arts progression rules to Level 3, and completion of one of the following Level 2 courses at Band D or better: History 2Em, History 2Med, History 2Sco, Economic and Social History 2A, and Economic and Social History 2B. Students cannot have taken 2AM (7ELV).

*Assessment:* No examination: assessment by course work only: 1 short essay (1500 words) rated at 25% of the total course mark; 1 short verbal presentation (15 mins) on a relevant historical theme (10%); an 800-word review of a book, review of CAL unit or other comparable material (10%); design 1 draft examination paper (5-8 questions) on a historical period or theme of his/her choice (5%); complete 1 dissertation (3000 words) rated at 50% to be submitted by the end of the course.

*Aims:* This course is based on the corresponding level 2 course and it seeks to give each student an understanding of the underlying structures of the period studied, the nature and quality of different types of primary and secondary source material, and ways of assessing the value of visual and other types of evidence. It also seeks to enhance student skills relating to verbal presentation of historical arguments, reviewing existing historical literature, and (esp. through the dissertation) designing an independent research strategy.

*Course Co-ordinator:* Dr Phillips O'Brien

## **2YTW HISTORY 3 EM**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Please contact Department

*Requirements of entry:* Normally Faculty of Arts progression rules to Level 3, and completion of one of the following level 2 courses at Band D or better: History 2Am, History 2Med, History 2Sco, Economic and Social History 2A, and Economic and Social History 2B. Students cannot have taken History 2Em (7EMV)

*Assessment:* No examination: assessment by course work only: 1 short essay (1500 words) rated at 25% of the total course mark; 1 short verbal presentation (15 mins) on a relevant historical theme (10%); an 800-word review of a book, review of CAL unit or other comparable material (10%); design 1 draft examination paper (5-8 questions) on a historical period or theme of his/her choice (5%); complete 1 dissertation (3000 words) rated at 50% to be submitted by the end of the course.

*Aims:* This course is based on the corresponding level 2 course not previously experienced and it seeks to give each student an understanding of the underlying structures of the period studied, the nature and quality of different types of primary and secondary source material, and ways of assessing the value of visual and other types of evidence. It also seeks to enhance student skills relating to verbal presentation of historical arguments, reviewing existing historical literature, and (esp. through the dissertation) designing an independent research strategy.

*Course Co-ordinator:* Dr Lionel Glassey

**JCPW HISTORY 3 MED***Credits:* 30*Level:* 3*When Taught:* Semester 2 (January - June)*Timetable:* Please contact Department

*Requirements of entry:* Normally Faculty of Arts progression rules to Level 3, and completion of one of the following level 2 courses at Band D or better: History 2Am, History 2Em, History 2Sco, Economic and Social History 2A, and Economic and Social History 2B. Students cannot have taken History 2MED (7ENV).

*Assessment:* No examination: assessment by course work only: 1 short essay (1500 words) rated at 25% of the total course mark; 1 short verbal presentation (15 mins) on a relevant historical theme (10%); an 800-word review of a book, review of CAL unit or other comparable material (10%); design 1 draft examination paper (5-8 questions) on a historical period or theme of his/her choice (5%); complete 1 dissertation (3000 words) rated at 50% to be submitted by the end of the course.

*Aims:* This course is based on the corresponding level 2 course and it seeks to give each student an understanding of the underlying structures of the period studied, the nature and quality of different types of primary and secondary source material, and ways of assessing the value of visual and other types of evidence. It also seeks to enhance student skills relating to verbal presentation of historical arguments, reviewing existing historical literature, and (esp. through the dissertation) designing an independent research strategy.

*Course Co-ordinator:* Prof Matthew Strickland**JCQW HISTORY 3 SCO***Credits:* 30*Level:* 3*When Taught:* Semester 2 (January - June)*Timetable:* Please contact Department

*Requirements of entry:* Normally Faculty of Arts progression rules to Level 3, and completion of one of the following Level 2 courses at Band D or better: History 2Am, History 2Em, History 2Med, Economic and Social History 2A, and Economic and Social History 2B. Students cannot have taken History 2Sco (9TMV).

*Assessment:* No examination: assessment by course work only: 1 short essay (1500 words) rated at 25% of the total course mark; 1 short verbal presentation (15 mins) on a relevant historical theme (10%); an 800-word review of a book, review of CAL unit or other comparable material (10%); design 1 draft examination paper (5-8 questions) on a historical period or theme of his/her choice (5%); complete 1 dissertation (3000 words) rated at 50% to be submitted by the end of the course.

*Aims:* This course is based on the corresponding level 2 course and it seeks to give each student an understanding of the underlying structures of the period studied, the nature and quality of different types of primary and secondary source material, and ways of assessing the value of visual and other types of evidence. It also seeks to enhance student skills relating to verbal presentation

of historical arguments, reviewing existing historical literature, and (esp. through the dissertation) designing an independent research strategy.

*Course Co-ordinator:* Dr Martin MacGregor**139F HISTORY 3H (JOINT)***Credits:* 60*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* To be advised

*Requirements of entry:* To be admitted to either Joint Honours study in History and Another Subject or Joint Honours study in Scottish History and Another Subject, you must satisfy the following Faculty of Arts and Departmental requirements: Faculty of Arts 1. Completion of 12 courses (240 credits) achieving Band D or better in at least 11 of these courses. 2. At least 4 of these courses must be at Level 2 in two subjects. It is the student's responsibility to check with their Adviser of Studies that they have satisfied these requirements before beginning Honours. Department of History 1. Completion of two History Level 1 courses (including Economic and Social History) achieving a Band D or better (40 credits) 2. Completion of two History (including Economic and Social History) courses achieving Band B or better in one and Band C or better in the other (40 credits) 3. An overall average of Band C for all history courses taken.

*Assessment:* All courses will be assessed at the end of the year in which they are taken: a two hour examination, in which two questions must be answered (70%); essay written during the course (20%); and seminar work (10%), divided as follows: 6% for the seminar paper submitted and 4% for overall seminar contribution. The exceptions to this rule are courses offered in Historical Computing which are described in the honours handbook; courses offered by the Department of Economic and Social History, where the degree examination counts for 70% of the assessment, the essay for 20% and one other piece of work, as detailed by the course handout for each course, counts for the final 10%; and courses taught in conjunction with the Departments of Archaeology, Celtic and Law, details of which are set out in the Honours Handbook. The Special Subject will be assessed as follows: two 2 hour examinations will account for 60% of the total result; the remaining 40% will come from in-course assessment as follows: 10% for each of two semesterly essays; 6% for each of two semesterly presentations and 4% for seminar contribution in each semester.

*Degree Examination taken in:* May/June

*Aims:* The main educational aims of the MA (Hons) in History are: to develop a critical understanding of human activity in past societies for its own sake and to foster an understanding of the relationship between the present and the past, particularly of the complexity of the relationship between social, political and intellectual concerns of the present and research into the past; to facilitate student work in these areas by exposing students to current questions of historical research and method; to offer a range of opportunities and contexts for students to develop essential skills of analysis, research, presentation and communication as well as IT skills and

qualities of initiative through the assessed study of history across a wide range of periods and types of history. The outcomes common to all the Department's Honours courses are as follows: the development of the intellectual interests and analytical skills acquired by students during their first two years; awareness of previously unfamiliar methodological approaches, chronological periods and geographical areas by offering a wide and flexible choice of options; to offer the opportunity to develop skills in historical computing, as well as basic IT awareness; familiarity with complex historical debates and interpretations, skill in interpreting primary sources where appropriate, and to inform these discussions with new ideas derived from lecturers' current research; the development of transferable skills by fostering individual initiative, personal choice, group discussion and, where appropriate, problem-solving team work.

*Honours Course Prescription:* Three courses in year 3. Three courses, or a Special Subject, or a dissertation plus one course, in year 4 (see History 3H/4H Single).

*Course Co-ordinator:* Dr Marina Moskowitz

### 139H HISTORY 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* To be admitted to Single Honours study in History, you must satisfy the following Faculty of Arts and Departmental requirements: Faculty of Arts 1. Completion of 12 courses (240 credits) achieving Band D or better in at least 11 of these. 2. At least 4 of these courses must be at Level 2 in two subjects. It is the responsibility of the student to check with their Adviser of Studies that they have satisfied these requirements before beginning Honours. Department of History 1. Completion of History 1A and History 1B achieving a Band D or better (40 credits) 2. Completion of two History (including Economic and Social History) courses achieving Band B or better in one and Band C or better in the other (40 credits). 3. Completion of at least one additional History (or Economic and Social History) course, Level 1 or Level 2, achieving a Band D or better (20 credits). 4. An overall average of Band C for all history courses taken

*Assessment:* All courses will be assessed at the end of the year in which they are taken: a two-hour examination, in which two questions must be answered (70%); essay written during the course of the course (20%); and seminar work (10%), divided as follows: 6% for the seminar paper and 4% for overall seminar contribution. The exceptions to this rule are courses offered in Historical Computing are described in the Honours Handbook; courses offered by the Department of Economic and Social History, where the degree examination counts for 70% of the assessment, the essay for 20% and one other piece of work, as detailed by the course hand-out for each course, counts for the final 10%; and courses taught in conjunction with the Departments of Archaeology, Celtic and Law, details of which are set out in the Honours Handbook. The Special Subject will be assessed as follows: two 2 hour examinations will ac-

count for 60% of the total result; the remaining 40% will come from in-course assessment as follows: 10% for each of two semesterly essays; 6% for each of the two semesterly presentations and 4% for seminar contribution in each semester.

*Degree Examination taken in:* May/June

*Aims:* The main educational aims of the MA (Hons) in History are: to develop a critical understanding of human activity in past societies for its own sake and to foster an understanding of the relationship between the present and the past, particularly of the complexity of the relationship between social, political and intellectual concerns of the present and research into the past; to facilitate student work in these areas by exposing students to current questions of historical research and method; to offer a range of opportunities and contexts for students to develop essential skills of analysis, research, presentation and communication as well as IT skills and qualities of initiative through the assessed study of history across a wide range of periods and types of history. The outcomes common to all the Department's Honours courses are as follows: the development of the intellectual interests and analytical skills acquired by students during their first two years; awareness of previously unfamiliar methodological approaches, chronological periods and geographical areas by offering a wide and flexible choice of options; to offer the opportunity to develop skills in historical computing, as well as basic IT awareness; familiarity with complex historical debates and interpretations, skills in interpreting primary sources where appropriate, and to inform these discussions with new ideas derived from lecturer's current research; the development of transferable skills by fostering individual initiative, personal choice, group discussion and, where appropriate, problem-solving team work.

*Honours Course Prescription:* Six courses from the list given in the current Honours Handbook and on the Departmental web site for Year 3. One course, a Special Subject and a dissertation in Year 4.

*Course Co-ordinator:* Dr Marina Moskowitz

### 139G HISTORY 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* To be admitted to either Senior Joint Honours study in History and Another Subject or Senior Joint Honours study in Scottish History and Another Subject, you must have satisfactorily completed either Junior Joint Honours study in History and Another Subject, or Junior Joint Honours study in Scottish History and Another Subject.

*Assessment:* All courses will be assessed at the end of the year in which they are taken: a two hour examination, in which two questions must be answered (70%); essay written during the course of the course (20%); and seminar work (10%), divided as follows: 6% for the better of the two seminar papers submitted and 4% for overall seminar contribution. The exceptions to this rule are courses offered in Historical Computing which are described in the honours handbook; courses

offered by the Department of Economic and Social History, where the degree examination counts for 70% of the assessment, the essay for 20% and one other piece of work, as detailed by the course handout for each course, counts for the final 10%; and courses taught in conjunction with the Departments of Archaeology, Celtic and Law, details of which are set out in the Honours Handbook. The Special Subject will be assessed as follows: two 2 hour examinations will account for 60% of the total result; the remaining 40% will come from in-course assessment as follows: 10% for each of two termly essays; 6% for each of two termly presentations and 4% for seminar contribution in each term.

*Degree Examination taken in:* May/June

*Aims:* The main educational aims of the MA (Hons) in History are: to develop a critical understanding of human activity in past societies for its own sake and to foster an understanding of the relationship between the present and the past, particularly of the complexity of the relationship between social, political and intellectual concerns of the present and research into the past; to facilitate student work in these areas by exposing students to current questions of historical research and method; to offer a range of opportunities and contexts for students to develop essential skills of analysis, research, presentation and communication as well as IT skills and qualities of initiative through the assessed study of history across a wide range of periods and types of history. The outcomes common to all the Department's Honours courses are as follows: the development of the intellectual interests and analytical skills acquired by students during their first two years; awareness of previously unfamiliar methodological approaches, chronological periods and geographical areas by offering a wide and flexible choice of options; to offer the opportunity to develop skills in historical computing, as well as basic IT awareness; familiarity with complex historical debates and interpretations, skill in interpreting primary sources where appropriate, and to inform these discussions with new ideas derived from lecturers' current research; the development of transferable skills by fostering individual initiative, personal choice, group discussion and, where appropriate, problem-solving team work.

*Honours Course Prescription:* In Senior Joint Honours, students can take 3 courses, OR, 1 dissertation plus 1 course, OR, 1 Special Subject. Fuller information regarding which courses are available can be found in the Department's Honours Handbook. Courses taught by the Department of Economic & Social History can also be taken, and details can be obtained from that Department.

*Course Co-ordinator:* Dr Marina Moskowitz

### 139J HISTORY 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* to be admitted to Senior Single Honours study in History, you must have successfully completed Junior Single Honours study in History.

*Assessment:* All courses will be assessed at the end of the year in which they are taken: a two-hour examination, in which two questions must be answered (70%); essay written during the course of the course (20%); and seminar work (10%), divided as follows: 6% for the better of the two seminar papers submitted and 4% for overall seminar contribution. The exceptions to this rule are courses offered in Historical Computing as described in the Honours Handbook; courses offered by the Department of Economic and Social History, where the degree examination counts for 70% of the assessment, the essay for 20% and one other piece of work, as detailed by the course handout for each course, counts for the final 10%; and courses taught in conjunction with the Departments of Archaeology, Celtic and Law, details of which are set out in the Honours Handbook. The Special Subject will be assessed as follows: two 2 hour examinations will account for 60% of the total result; the remaining 40% will come from in-course assessment as follows: 10% for each of two termly essays; 6% for each of two termly presentations and 4% for seminar contribution in each term.

*Degree Examination taken in:* May/June

*Aims:* The main educational aims of the MA (Hons) in History are: to develop a critical understanding of human activity in past societies for its own sake and to foster an understanding of the relationship between the present and the past, particularly of the complexity of the relationship between social, political and intellectual concerns of the present and research into the past; to facilitate student work in these areas by exposing students to current questions of historical research and method; to offer a range of opportunities and contexts for students to develop essential skills of analysis, research, presentation and communication as well as IT skills and qualities of initiative through the assessed study of history across a wide range of periods and types of history. The outcomes common to all the Department's Honours courses are as follows: the development of the intellectual interests and analytical skills acquired by students during their first two years; awareness of previously unfamiliar methodological approaches, chronological periods and geographical areas by offering a wide and flexible choice of options; to offer the opportunity to develop skills in historical computing, as well as basic IT awareness; familiarity with complex historical debates and interpretations, skills in interpreting primary sources where appropriate, and to inform these discussions with new ideas derived from lecturer's current research; the development of transferable skills by fostering individual initiative, personal choice, group discussion and, where appropriate, problem-solving team work.

*Honours Course Prescription:* In Senior Single Honours, a special subject, a dissertation and one course must be taken. Fuller information regarding which courses are available can be found in the Department's Honours Handbook. Courses taught by the Department of Economic & Social History can also be taken, and details can be obtained from them.

*Course Co-ordinator:* Dr Marina Moskowitz

## History of Art

### 103B HISTORY OF ART 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures from 3.00 pm-4.00 pm on Mondays, Tuesdays & Thursdays; Seminars: one a week at times to be arranged

*Requirements of entry:* Acceptance to Glasgow University

*Assessment:* Two degree examination papers (50%); continuous assessment (50%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) to provide a one year initiation course for those who wish to study the History of Art within the context of an interdisciplinary degree; (2) to provide students in the Level 1 Class who may have no prior knowledge of the subject, with a good general knowledge of the Western tradition of art represented by two important periods; the Renaissance and the Nineteenth Century/Early Twentieth Century, which may then be extended and developed at more advanced levels; (3) to foster transferable skills, for example, time-management; problem-solving; observation and visual analysis; independent learning; presentation and communication (oral and written); (4) to provide a basic foundation in selected areas of History of Art, which will enhance students' appreciation of the material heritage of European culture.

*Course Co-ordinator:* Dr John Richards

### 103U HISTORY OF ART 1 (HALF COURSE)

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures from 3.00 pm-4.00 pm on Mondays, Tuesdays & Thursdays; Seminars: one a week at times to be arranged

*Assessment:* Two degree examination papers (50%); continuous assessment (50%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) to provide an initiation course for those who wish to study the History of Art within the context of an interdisciplinary degree; (2) to provide students in the Level 1 Class who may have no prior knowledge of the subject, with a good general knowledge of the Western tradition of art represented by the Renaissance, which may then be extended and developed at more advanced levels; (3) to foster transferable skills, for example, time-management; problem-solving; observation and visual analysis; independent learning; presentation and communication (oral and written); (4) to provide a basic foundation in selected areas of History of Art, which will enhance students' appreciation of the material heritage of European culture.

*Course Co-ordinator:* Dr John Richards

### 0XTU HISTORY OF ART 1 (HALF COURSE)

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures from 3.00 pm-4.00 pm on Mondays, Tuesdays & Thursdays; Seminars: one a week at times to be arranged

*Requirements of entry:* Acceptance to Glasgow University

*Assessment:* Degree examination (50%); continuous assessment (50%)

*Aims:* (1) to provide an initiation course for those who wish to study the History of Art within the context of an interdisciplinary degree; (2) to provide students in the Level 1 Class who may have no prior knowledge of the subject, with a good general knowledge of the Western tradition of art represented by the Nineteenth Century/Early Twentieth Century, which may then be extended and developed at more advanced levels; (3) to foster transferable skills, for example, time-management; problem-solving; observation and visual analysis; independent learning; presentation and communication (oral and written); (4) to provide a basic foundation in selected areas of History of Art, which will enhance students' appreciation of the material heritage of European culture.

*Course Co-ordinator:* Dr John Richards

### JZCS MACKINTOSH AND THE GLASGOW STYLE - SUMMER SCHOOL

*Credits:* 10

*Level:* 1

*When Taught:* Term 4 (June - September)

*Timetable:* 10 Sessions, composed of a mixture of lectures, seminars and visits

*Aims:* To develop the student's knowledge of the issues, methodological approaches and historical practice employed in the study of the work of Mackintosh and his contemporaries; to give students an opportunity for in-depth study of Mackintosh's work; to encourage direct experience of evaluating a range of primary source materials; to promote object-based research by studying at first-hand the works of Mackintosh and his contemporaries, and exploring the relationship between furniture, decorative art and drawings, designs and watercolours; to promote the acquisition of research and analytical skills appropriate to the study of Mackintosh and his contemporaries; to support the student in the development and application of research, oral and written presentation skills.

*Course Co-ordinator:* Dr Joanna Meacock

### 7FKV HISTORY OF ART 2

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Lectures 1.00 pm-2.00 pm Mondays, Tuesdays, Wednesdays, Thursdays. Irregular Seminars at times to be arranged

*Requirements of entry:* Entry to Level 2 is secured by achievement of at least a D grade [minimum 50%] at

either the first or second sitting of the Degree Examinations in Level 1 History of Art OR 40 credits worth of DACE courses in History of Art at grade D at least may give access to History of Art Level 2 if the Department of History of Art judges that the combination of courses offered in a particular case for access to Level 2 is appropriately spread. Of the two following DACE courses, only one may count in this respect: Cathedral Building in Medieval France and Britain; Gothic Architecture of the 12th & 13th Centuries.

*Excluded Courses:* History of Art 2 (half course)

*Assessment:* 50% of the marks are given for the degree examination and 50% for course work

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course has the following aims: [1] to provide a Level-2 course for those who wish to study the history of art within the context of an interdisciplinary degree; [2] to enable students to extend and develop the basic knowledge of the discipline gained in the Level-1 course [or equivalent] by introducing them to a number of themes and areas not previously encountered; [3] to encourage a critical awareness of the discipline by introducing students to some of the issues of methodology, historiography and context which are particularly associated with these areas of study; [4] to provide students with the opportunity of developing further such transferable skills as time-management, problem-identification & problem-solving, visual skills, independent learning, written presentation and, where appropriate, computer and web-based skills; [5] to prepare students intending to take the Honours Degree by introducing them to the kind of closely focused analysis which they may be expected to encounter in their 3rd and 4th years of study.

*Course Co-ordinator:* Ms Juliet Kinchin

## **8CBV HISTORY OF ART 2 (HALF COURSE)**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures 1.00 pm - 2.00 pm Mondays, Tuesdays, Wednesdays, Thursdays (Semester 1 OR Semester 2) or 7.00-9.00pm on Tuesdays & Thursdays (Semester 1 only). Irregular seminars at times to be arranged.

*Requirements of entry:* Entry To Level-2 is secured by achievement of at least a D grade [minimum 50%] at either the first or second sitting of the Degree Examinations in Level-1 History of Art OR 40 credits worth of DACE courses in History of Art at grade D at least may give access to History of Art Level-2 if the Department of History of Art judges that the combination of courses offered in a particular case for access to Level-2 is appropriately spread. Of the two following DACE courses, only one may count in this respect: Cathedral Building in Medieval France and Britain; Gothic Architecture of the 12th & 13th Centuries.

*Excluded Courses:* History of Art 2

*Assessment:* 50% of the marks are given for the degree examination and 50% for course work

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course has the following aims: [1] to provide a Level-2 course for those who wish to study the history of art within the context of an interdisciplinary degree; [2] to enable students to extend and develop the basic knowledge of the discipline gained in the Level-1 course [or equivalent] by introducing them to a number of themes and areas not previously encountered; [3] to encourage a critical awareness of the discipline by introducing students to some of the issues of methodology, historiography and context which are particularly associated with these areas of study; [4] to provide students with the opportunity of developing further such transferable skills as time-management, problem-identification & problem-solving, visual skills, independent learning, written presentation and, where appropriate, computer and web-based skills; [5] to prepare students intending to take the Honours Degree by introducing them to the kind of closely focused analysis which they may be expected to encounter in their 3rd and 4th years of study.

*Course Co-ordinator:* Ms Juliet Kinchin

## **9UVV HISTORY OF ART 2 (HALF COURSE)**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures 1.00 pm - 2.00 pm Mondays, Tuesdays, Wednesdays, Thursdays (Semester 1 OR Semester 2) or 7.00-9.00pm on Tuesdays & Thursdays (Semester 1 only). Irregular seminars at times to be arranged.

*Requirements of entry:* Entry To LEVEL-2 is secured by achievement of at least a D grade [minimum 50%] at either the first or second sitting of the Degree Examinations in Level-1 History of Art OR 40 credits worth of DACE courses in History of Art at grade D at least may give access to History of Art Level-2 if the Department of History of Art judges that the combination of courses offered in a particular case for access to Level-2 is appropriately spread. Of the two following DACE courses, only one may count in this respect: Cathedral Building in Medieval France and Britain; Gothic Architecture of the 12th & 13th Centuries.

*Excluded Courses:* History of Art 2

*Assessment:* 50% of the marks are given for the degree examination and 50% for course work

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course has the following aims: [1] to provide a Level-2 course for those who wish to study the history of art within the context of an interdisciplinary degree; [2] to enable students to extend and develop the basic knowledge of the discipline gained in the Level-1 course [or equivalent] by introducing them to a number of themes and areas not previously encountered; [3] to encourage a critical awareness of the discipline by introducing students to some of the issues of methodology, historiography and context which are particularly associated with these areas of study; [4] to provide students with the opportunity of developing further such transferable skills as time-management, problem-

identification & problem-solving, visual skills, independent learning, written presentation and, where appropriate, computer and web-based skills; [5] to prepare students intending to take the Honours Degree by introducing them to the kind of closely focused analysis which they may be expected to encounter in their 3rd and 4th years of study.

*Course Co-ordinator:* Ms Juliet Kinchin

### **8CAV HISTORY OF ART 2:DL- REPRESENTING ABSTRACT EXPRESSIONISM**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* N/A as the course is Web Based

*Requirements of entry:* Entry to Level-2 is secured by achievement of at least a D grade [minimum 50%] at either the first or second sitting of the Degree Examinations in Level-1 History of Art OR 40 credits worth of DACE courses in History of Art at grade D at least may give access to History of Art Level-2 if the Department of History of Art judges that the combination of courses offered in a particular case for access to Level-2 is appropriately spread. Of the two following DACE courses, only one may count in this respect: Cathedral Building in Medieval France and Britain; Gothic Architecture of the 12th & 13th Centuries.

*Co-requisites:* Either History of Art 2 (half course) or Part 1 of History of Art 2.

*Excluded Courses:* The whole of History of Art 2

*Assessment:* 50% of the marks are given for the degree examination and 50% for course work

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The Distance Learning Option, the equivalent of three traditionally taught components of Level-2, is web-based, allowing students to avoid set lectures and seminar times. It will examine aspects of twentieth-century art and criticism, concentrating on American art of the 1950s. The course has the following aims: [1] to provide a Level-2 course for those who wish to study the history of art within the context of an interdisciplinary degree; [2] to enable students to extend and develop the basic knowledge of the discipline gained in the Level-1 course [or equivalent] by introducing them to a number of themes and areas not previously encountered; [3] to encourage a critical awareness of the discipline by introducing students to some of the issues of methodology, historiography and context which are particularly associated with these areas of study; [4] to provide students with the opportunity of developing further such transferable skills as time-management, problem-identification and problem-solving, visual skills, independent learning, written presentation and, where appropriate, computer and web-based skills; [5] to prepare students intending to take the Honours Degree by introducing them to the kind of closely focused analysis which they may be expected to encounter in their 3rd and 4th years of study.

*Course Co-ordinator:* Ms Juliet Kinchin

### **JASF HISTORY OF ART JOINT JUNIOR HONOURS**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Joint Honours 3 x 20 hours seminars and lectures + 5 hours tutorials/seminars for dissertation support. Class meeting times to be determined, but will normally be scheduled at times between 9.00 am-6.00 pm inclusive every week-day in semester time (exact details of timetable available from Department).

*Requirements of entry:* C+ (14) or higher at the first sitting of the Level-2 7FKV or through completion of two of the four Level-2 courses 8CAV, 8CCV, 9UVV and 8CBV at Grade Band C+ (14).

*Co-requisites:* Students must take: Historiography of Art History Junior Honours core course, plus 60 credits composed of Junior Honours courses taught by another department with which Joint Honours combination is approved by the Faculty. One pre 1800 option must be taken either at Junior or Senior Honours in Art History.

*Excluded Courses:* At least one option at either Level 3 (Junior Honours) or Level 4 (Senior Honours) must be from a period before 1800, and one from the period after 1800. One core course ('Historiography of Art History' or 'Methodology of Art History') must normally be taken as part of the 3H Programme).

*Assessment:* 'Historiography of Art History' or 'Methodology of Art History' core course (20 credits) - 1 x 2-3,000 continuously assessed essay (50%) plus an essay written under examination conditions (50%); each taught option (20 credits) - 1 x 2,000 word continuously assessed essay (30%) plus 1 x 2hour degree examination (60%) plus either an oral presentation or a visual test (10%). In addition students write a dissertation of 6-8,000 words (20 credits) submitted in the Senior Honours year.

*Aims:* \* To enable the acquisition of a range of subject-specific knowledge and intellectual skills appropriate to progression from Level-2 to Senior Honours in History of Art, through a programme of two core and four optional courses (one core and two optional courses for Joint Hons); \* to offer a range of distinctive and stimulating opportunities for study of topics informed by staff research expertise, and where relevant involving first hand study of art works in local collections, or of examples of local architecture. \* to foster advanced 'key skills' such as independent learning; gathering and evaluation of information from written and visual sources; formulation of concepts and hypotheses; problem solving; written and oral presentation of reasoned critical arguments; and time management, that may be an advantage in a variety of employment or in further study.

*Honours Course Prescription:* Dissertation (submitted in Senior Honours), compulsory core course on either Historiography of Art History or Methodology of Art History, and two taught options from: (i) The Apocalypse, Antichrist, and the End of Time in Medieval Art (term 2); (ii) Caravaggio: the Man who Came to Destroy Ppainting (term 1); (iii) Dutch Painting in the Golden Age: Technique and Style (term 2); (iv) History Domesticated: The British Interior c1720-1830 (term 2); (v) Making and Viewing Sculpture c.1789-



1862 (term 1); (vi) Architecture and Design in Regency Britain (term 1); (vii) Women, Art and Audience 1830-1914 (term 1); (viii) Design, Politics and Commerce: International Exhibitions 1851-1951 (term 1); (ix) Artists and the Art Market in Late 19th-century Britain (term 2); (x) Photography and Modernism: Readings in Twentieth Century Photography 1900-1970 (term 2). Not all options will necessarily be offered every year-check with Department.

*Course Co-ordinator:* Ms Sally Rush

## JARH HISTORY OF ART SINGLE JUNIOR HONOURS

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 6 x 20 hours seminars and lectures + 5 hours tutorials/seminars for dissertation support. Class meeting times to be determined, but will normally be scheduled at times between 9.00 am-6.00 pm inclusive every week-day in semester time (exact details of timetable available from Department).

*Requirements of entry:* C+ (14) or higher at the first sitting of the Level-2 7FKV or through completion of two of the four Level-2 courses 8CAV, 8CCV, 9UVV and 8CBV at Grade Band C+ (14).

*Co-requisites:* Students must take: 'Historiography' and 'Methodology' Junior Honours core courses and one pre 1800 option must be taken at either Junior or Senior Honours.

*Excluded Courses:* At least one option at either Junior or Senior Honours must be from a period before 1800, and one from the period after 1800. The two 'Core Courses' on 'Historiography of Art History' and 'Methodology of Art History', or the equivalent of one of these on the 'Junior Honours Year Abroad' Scheme, must be taken as part of the 3H programme. (Junior Honours Year Abroad students must receive approval from the Department of their intended programme of study at 3H, and may be required to take 'Historiography of Art History' at 4H in lieu of such a course abroad at 3H).

*Assessment:* 'Historiography of Art History' core course (20 credits) - 1 x 2-3,000 word continuously assessed essay (50%) plus an essay written under examination conditions (50%); 'Methodology of Art History' core course (20 credits) 1 x 2-3,000 word continuously assessed essay (50%) plus an essay written under examination conditions (50%); each taught option (20 credits) - 1 x 2,000 word essay worth 30% plus 1 x 2 hour Degree Examination worth 60%; and either an oral presentation or visual test, worth 10%. In addition, students write a dissertation of 8-10,000 words (40 credits), submitted in the Senior Honours year.

*Degree Examination taken in:* May/June

*Aims:* \* To enable the acquisition of a range of subject-specific knowledge and intellectual skills appropriate to progression from Level-2 to Senior Honours in History of Art, through a programme of two core and four optional courses (one core and two optional courses for Joint Hons); \* to offer a range of distinctive and stimulating opportunities for study of topics informed by

staff research expertise, and where relevant involving first hand study of art works in local collections, or of examples of local architecture. \* to foster advanced 'key skills' such as independent learning; gathering and evaluation of information from written and visual sources; formulation of concepts and hypotheses; problem solving; written and oral presentation of reasoned critical arguments; and time management, that may be an advantage in a variety of employment or in further study.

*Honours Course Prescription:* Dissertation (submitted in Senior Honours), compulsory core courses on 'Historiography of Art History' and 'Methodology of Art History', plus two taught options from: i) The Apocalypse, Antichrist, and the End of Time in Medieval Art (term 2); (ii) Caravaggio: the man who came to destroy painting (term 1); (iii) Dutch Painting in the Golden Age: Technique and Style (term 2); (iv) History Domesticated: The British Interior c1720-1830 (term 2); (v) Making and Viewing Sculpture c.1789-1862 (term 1); (vi) Architecture and Design in Regency Britain (term 1); (vii) Women, Art and Audience 1830-1914 (term 1); (viii) Design, Politics and Commerce: International Exhibitions 1851-1951 (term 1); (ix) Artists and the Art Market in Late 19th-century Britain (term 2); (x) Photography and Modernism: Readings in Twentieth Century Photography 1900-1970 (term 2). Not all options will necessarily be offered each year-check with Department.

*Course Co-ordinator:* Ms Sally Rush

## KJUG HISTORY OF ART 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 1 x 40 hours seminars and lectures + 5 hours tutorials for dissertation. Class meeting times to be determined, but will normally be scheduled at times between 9.00 am-6.00 pm inclusive every week-day in semester time (exact details of timetable available from Department).

*Requirements of entry:* C1 in History of Art Level-2 or higher in the first sitting of the Level 2 7FKV or through completion of two of the four Level 2 courses: 8CAV, 8CCV, 9UVV and 8CBV at grade band C1 or higher

*Excluded Courses:* At least one option at either Junior or Senior Honours must be from a period before 1800, and one from the period after 1800. Either the 'Historiography of Art History' or the 'Methodology of Art History' core course or its equivalent on a Junior Honours Year Abroad course must normally have been taken at Junior Honours (Level 3).

*Assessment:* Taught option (40 credits) - 1 x 3 hour Degree Examination worth 60%; 2 x 3,000 word Essays worth 30%; one Oral Presentation or equivalent assignment worth 10% of the option total. The dissertation of 6-8,000 words (20 credits; begun in Junior Honours) is assessed in May.

*Degree Examination taken in:* May/June

*Aims:* \* to provide for the acquisition of a range of advanced subject-specific and intellectual skills appropriate to progression either to taught or research postgraduate courses, through a programme of optional courses

and a compulsory dissertation; \* to offer a range of distinctive and stimulating opportunities, including use of specialist collections in galleries and archives, and study of examples of architecture, sculpture, mural painting, applied art etc, of topics directly related to the research interests of individual staff \* to foster greater analytical, methodological, and theoretical sophistication in the handling of topics, ideas and 'problems' in art history than that required at Junior Honours level; \* to foster, through study of art history at this level, a range of advanced 'key skills' of relevance to a variety of employment opportunities.

*Honours Course Prescription:* Dissertation plus one taught option from:

(i) Pre-Humanist Bologna and the Law; (ii) Humanism and the Rinascità: Developments in Art and Art History in Italy, 1360-1430; (iii) Early Impressionism; (iv) Art and Politics in Weimar Germany (1918-1933); (v) a 20th-century option (title not yet available); (vi) Introduction to Multi-Media Analysis and Presentation. The dissertation (see 3H (Joint) above; 6-8,000 words) is submitted in the Senior Honours year.

*Course Co-ordinator:* Dr Clare Willsdon

### KJVJ HISTORY OF ART 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* 2 x 40 hours seminars and lectures + 5 hours tutorials for dissertation. Class meeting times to be determined, but will normally be scheduled at times between 9.00 am-6.00 pm inclusive every week-day in semester time (exact details of timetable available from Department).

*Requirements of entry:* C1 in History of Art Level-2 or higher in the first sitting of the Level 2 7FKV or through completion of two of the four Level 2 courses: 8CAV, 8CCV, 9UVV and 8CBV at grade band C1 or higher

*Excluded Courses:* At least one option at either Junior or Senior Honours must be from a period before 1800, and one from the period after 1800. The 'Historiography of Art History' and 'Methodology of Art History' core courses or their equivalent on a Junior Honours Year Abroad course must normally have been taken at Junior Honours (Level 3).

*Assessment:* Two taught options (each 40 credits) - each option has 1 x 3 hour Degree Examination worth 60%; 2 x 3,000 word Essays worth 30%; one Oral Presentation or equivalent assignment worth 10% of the option total. The dissertation of 8-10,000 words (40 credits; begun in Junior Honours) is assessed in May.

*Degree Examination taken in:* May/June

*Aims:* \* To provide for the acquisition of a range of advanced subject-specific and intellectual skills appropriate to progression either to taught or research postgraduate courses, through a programme of optional courses and a compulsory dissertation; \* to offer a range of distinctive and stimulating opportunities, including use of specialist collections in galleries and archives, and study of examples of architecture, sculpture, mural painting, applied art etc, of topics directly related to the research interests of individual staff \* to foster greater analytical,

methodological, and theoretical sophistication in the handling of topics, ideas and 'problems' in art history than that required at Junior Honours level; \* to foster, through study of art history at this level, a range of advanced 'key skills' of relevance to a variety of employment opportunities.

*Honours Course Prescription:* Dissertation plus two taught options from:

(i) Pre-Humanist Bologna and the Law; (ii) Humanism and the Rinascità: Developments in Art and Art History in Italy, 1360-1430; (iii) Early Impressionism; (iv) Art and Politics in Weimar Germany (1918-1933); (v) a 20th-century option (title not yet available); (vi) Introduction to Multi-Media Analysis and Presentation. The dissertation (see 3H (Single) above; 8-10,000 words) is submitted in the Senior Honours year.

*Course Co-ordinator:* Dr Clare Willsdon

## Humanities Advanced Technology & Information Institute

### JNWU ARTS & MEDIA INFORMATICS 1A

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Two 1-hour lectures (2.00 - 3.00 pm, Monday and Thursday) and two 1-hour workshops per week (2.00 - 3.00 pm, Tuesday and Friday).

*Excluded Courses:* Normally, no credit can be given for both this course and any Computing Science Level 1 course.

*Assessment:* Assessed coursework consists of one practical or essay-based project (50%) and one two-hour exam (40%); a further 10% of the mark is assigned for participation and contribution in practical sessions and classes.

*Aims:* To introduce students to a wide range of computing concepts and humanities applications; to examine how computers have been applied in a variety of humanities disciplines and the impact of their use on the development of the disciplines themselves; to examine the social and educational impact of the information technology revolution and to provide students with transferable computing skills in a wide range of application areas.

*Course Co-ordinator:* Ms Ann Gow

### JNXU ARTS & MEDIA INFORMATICS 1B

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Two 1-hour lectures (2.00 - 3.00 pm, Monday and Thursday) and two 1-hour workshops per week (2.00 - 3.00 pm, Tuesday and Friday).

*Requirements of entry:* Normally, Arts & Media Informatics 1A at D or above.

*Excluded Courses:* Normally, no credit can be given for this course and any Computing Science Level 1 course.

*Assessment:* Assessed coursework consists of one practical or essay-based project (50%) and one two-hour exam

(40%); a further 10% of the mark is assigned for participation and contribution in practical sessions and classes.

*Aims:* To introduce students to a wide range of computing concepts and humanities applications; to examine how computers have been applied in a variety of humanities disciplines and the impact of their use on the development of the disciplines themselves; to examine the social and educational impact of the information technology revolution and to provide students with transferable computing skills in a wide range of application areas.

*Course Co-ordinator:* Ms Ann Gow

## JNYV ARTS & MEDIA INFORMATICS 2A

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Two 1-hour lectures (11.00-12.00, Tuesday and Thursday) and two 1-hour workshops per week (11.00-12.00, Wednesday and Friday)

*Requirements of entry:* A grade D in (University of Glasgow) Arts & Media Informatics 1A and 1B or equivalent.

*Excluded Courses:* Credit can not be received both for this course and for any similar level course in the Department of Computing Science.

*Assessment:* Assessed coursework consists of two practical or essay-based projects (30% each) and one two-hour exam (30%); a further 10% of the mark is assigned for participation and contribution in practical sessions and classes.

*Aims:* To examine a range of humanities computing issues and applications in greater depth than that covered by the Arts and Media Informatics Level One courses; introduce new issues and applications of humanities computing, give students an understanding of widely accepted standards and best practice in humanities computing and information management; encourage students to evaluate critically the benefits and shortcomings of using computers in their particular humanities disciplines; provide students with transferable computing and project management skills in a wide range of application areas.

*Course Co-ordinator:* Mr Stephen Woodruff

## JNZV ARTS & MEDIA INFORMATICS 2B

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Two 1-hour lectures (11.00-12.00, Tuesday and Thursday) and two 1-hour workshops per week (11.00-12.00, Wednesday and Friday)

*Requirements of entry:* University of Glasgow Arts & Media Informatics 2A or equivalent

*Excluded Courses:* Credit can not be received both for this course and for any similar level course in the Department of Computing Science.

*Assessment:* Assessed coursework consists of two practical or essay-based projects (30% each) and one two-hour

exam (30%); a further 10% of the mark is assigned for participation and contribution in practical sessions and classes.

*Aims:* To further examine a range of humanities computing issues and applications in greater depth; introduce new issues and applications of humanities computing develop an understanding of widely accepted standards and best practice in humanities computing and information management; encourage students to evaluate critically the benefits and shortcomings of using computers in their particular humanities disciplines; provide students with transferable computing and project management skills in a wide range of application areas.

*Course Co-ordinator:* Mr Stephen Woodruff

## 9RZF ARTS AND MEDIA INFORMATICS 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* There is no specific class hour. Please consult individual course information for days and times.

*Requirements of entry:* Honours entry: Successful completion of four Humanities Computing courses, 1A, 1B, 2A and 2B or equivalent and normally an average C grade, calculated on the numerical scale over the two level 2 courses. The average will normally be calculated on the first sitting of an examination or the first submission of an essay.

*Assessment:* A student's progress in each course is assessed by a combination of either a multimedia essay (100%) or a practical project (60%) and a final examination (40%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The main educational aims of the Arts and Media Informatics (Hons) programme are to develop a critical understanding of how information technology is applied in the academic and heritage sector: within disciplines in universities, and within libraries, archives, and museums; to offer a range of opportunities and contexts for students to develop the essential skills of analysis, research presentation and communication, as well as IT skills and learning how to exercise their initiative in attempting to understand how new technology is used to enhance our analysis, reception and judgement of texts. The courses will be taught through a combination of lectures and seminars, practicals and visits. The overall emphasis will be on: (a) the development of an appreciation of the issues involved in the application Information Communication Technology (ICT) to the academic and heritage sector; and (b) the acquisition of the knowledge to apply the ICT skills within this setting.

*Honours Course Prescription:* Core courses: Cultural Heritage Informatics (Semester One) Optional courses: Document Encoding (Semester Two); 2-D Digitisation: Theory and Practice (Semester Two); Investigating Cyberspace: Communities and Cultures on the Net (Semester Two)

*Course Co-ordinator:* Dr Ian Anderson

## 2RAW CONSCIOUSNESS AND COGNITION

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* The course will run three days a week, two lectures and a seminar. Proposed class hour: 4pm

*Requirements of entry:* The entry requirements are one D pass in a level 2 course taken from the core. Relevant level 2 courses have to be from the following group: Philosophy, Politics, Theology and Religious Studies, Psychology, Education, (Jurisprudence is only Level 1).

*Co-requisites:* None.

*Excluded Courses:* This course is intended for Level 3 students who are completing the three year degree, and in particular it is aimed at those students who need it as part of their qualifying requirement for the MA (Philosophical Studies).

*Assessment:* The course is continuously assessed and consists of an essay (25%), devising a web page (25%), seminar contribution (20%), and an examination (30%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To develop understanding of the rich domain of enquiry surrounding consciousness studies. To learn to engage critically with an exciting and current interdisciplinary area. To be open to different influences as means to understanding a subject more fully. To discover that no single perspective can offer a definitive explanation for complex phenomena, but that together they can be instructive in moving our knowledge of a subject matter forward.

*Course Co-ordinator:* Dr Susan Stuart

## 2RWF SPACE, CYBERSPACE AND THE SELF

*Credits:* 30

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* The class will meet three times a week (Mondays, Tuesdays and Thursdays) at 1pm - two lectures and one seminar. There might be additional film screening times, but these will be arranged when the class meets.

*Requirements of entry:* The entry requirements are one D pass in a level 2 course taken from the core. Relevant level 2 courses have to be from the following group: Film and Television, Music, Theatre Studies, History of Art, and Philosophy.

*Excluded Courses:* Normally all Honours level courses will be excluded combinations with this course.

*Assessment:* The entry requirements are one D pass in a Level 2 module taken from the core. The course work consists of an essay (25%), an examination (30%), designing and implementing a web page (25%), and seminar contribution (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To develop an understanding of issues surrounding the notions of space and time as employed in philosophy, the media, and literature. To learn to engage

critically with an exciting interdisciplinary area. To be open to different influences as a means of understanding a subject more fully. To understand that no single perspective offers a definitive explanation for these complex phenomena, but that together they can be instructive in moving our knowledge of the subject matter forward.

*Course Co-ordinator:* Dr Susan Stuart

## KDGW THE ART OF PERSUASION

*Credits:* 30

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Tuesday, Wednesday, Thursday. (Usually two lectures and a seminar) Class hour: 4pm.

*Requirements of entry:* The only precondition for entry to this class is a D pass in a Level 2 course taken from the relevant group of core subjects.

*Co-requisites:* None.

*Excluded Courses:* Since this is intended as a Level 3 non-Honours course all Honours courses are excluded as simultaneous combinations with it.

*Assessment:* Assessment will be continuous and consist of a Class Essay (30%), an Examination (50%), a Written Speech (10%), and Oral Presentation of the student's own speech (10%).

*Aims:* This course aims to enable the student to critically examine the history of rhetoric; to develop critical thinking skills, for example, being able to identify the employment of fallacies; and to recognise the presence of rhetorical devices in an argument or piece of oratory. By the end of the course students will be expected to write a speech and present it to the rest of the class.

*Course Co-ordinator:* Dr Susan Stuart

## 9RZG ARTS AND MEDIA INFORMATICS 4H)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* There is no specific class hour. Please consult individual course information for days and times.

*Requirements of entry:* D/Third pass in two 3H Arts and Media Informatics courses

*Assessment:* A student's progress in each course is assessed by a combination of either a multimedia essay (100%) or a practical project (60%) and a final examination (40%).

*Degree Examination taken in:* May/June

*Aims:* The main educational aims of the Arts and Media Informatics (Hons) programme are to develop a critical understanding of how information technology is applied in the academic and heritage sector: within disciplines in universities, and within libraries, archives, and museums; to offer a range of opportunities and contexts for students to develop the essential skills of analysis, research presentation and communication, as well as IT skills and learning how to exercise their initiative in attempting to understand how new technology is used to enhance our analysis, reception and judgement of texts. The courses will be taught through a combination of lectures and seminars, practicals and visits. The overall

emphasis will be on: (a) the development of an appreciation of the issues involved in the application Information Communication Technology (ICT) to the academic and heritage sector; and (b) the acquisition of the knowledge to apply the ICT skills within this setting.

*Honours Course Prescription:* Core courses: Multimedia Analysis and Design (Semester One) Optional courses: Document Encoding (Semester Two); 2-D Digitisation: Theory and Practice (Semester Two); Investigating Cyberspace: Communities and Cultures on the Net (Semester Two)

*Course Co-ordinator:* Dr Ian Anderson

## Immunology, Infection & Inflammation

### 550H IMMUNOLOGY 3H

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Term 1: 1 hour lectures daily, Weeks 1-2; thereafter, 3-hour blocks of lecture teaching on Monday, Thursday and Friday mornings Weeks 3-10; practicals on Monday afternoon Weeks 1-6; practical classes all day Tuesdays and Wednesdays + Thursday mornings Weeks 7-10. 2-hour tutorials Thursday afternoons Weeks 1-10. Term 2: Daily 1- 1.5 hr lectures plus practicals on Tuesday morning, and Wednesdays + Thursdays all day. 2-hour tutorials Tuesday mornings.

*Requirements of entry:* Normally, at least 60 credits at grade D or above in Biology courses above Level-1 including: Immunology 2. At least D grades are normally required in all prerequisite subjects, while B grades in all prerequisite subjects will guarantee entry. Entry is competitive, and is not guaranteed merely by satisfying the minimum requirements.

*Assessment:* Degree examination papers (60%), coursework assessment (40%), oral examination.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide: knowledge, understanding and skills necessary for an immunological career. Transferable skills useful in other fields and in everyday life. Cultural enrichment that will add to quality of life.

*Course Co-ordinator:* Dr J Gracie

### 550J IMMUNOLOGY 4H

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Semester 1 specialist topic sessions (2.00pm-5.00 pm) twice weekly with student presentations of published papers. October-February: Supervised research project (3 days/week). Dissertation (Semester 2). Reading party (Semester 1).

*Requirements of entry:* Immunology 3H at Grade D or better

*Assessment:* Degree examination credits as follows: project (20%); written papers (44%) (3 papers); dissertation (8%); problem solving (8%), carry over from Level 3 (20%).

*Degree Examination taken in:* May/June

*Aims:* To provide insight into the latest developments in immunology, and to provide training in scientific thought and research.

*Honours Course Prescription:* Immunoglobulins; MHC; antigen processing and presentation; receptor signalling; transgenic and K.O. gene technology; effector functions of lymphocytes; tolerance; cytokines; mucosal immunology; autoimmunity; transplantation; phagocytes; immunity to bacteria; viral and parasitic diseases; immunodeficiency. Some of these are run by visiting specialists from other universities. Laboratory projects and dissertations.

*Course Co-ordinator:* Prof Allan Mowat

## Italian

Please see the entries for the School of Modern Languages & Cultures, page 189.

## Management

### JRAU BUSINESS AND MANAGEMENT 1A: PEOPLE AT WORK

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Course lectures take place three times per week, Tuesdays, Wednesdays and Thursdays from 4-5pm. Tutorial sessions held fortnightly from weeks 3-11 at various times convenient to the students.

*Co-requisites:* Should be taken with B&M 1B to ensure potential progression to Honours.

*Assessment:* A 2,000 word essay assignment and a 2 hour end of course examination.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* People at Work aims to provide an introduction to the study of organizational behaviour for students with little or no previous social science knowledge. Students can expect to consider organizational behaviour from the perspectives of research and practice in psychology, sociology, management and business. Individual and group behaviours and their influence on organizational performance and success will be the key area of consideration. As such, key topics for examination and analysis will be the effects and impacts of learning, personality, communication, perception and motivation on individual and group behaviours in the organizational setting. The course offers students the opportunity to develop skills in interpersonal communication, written communication, presentations, problem-solving and use of information technology.

*Course Co-ordinator:* Dr Andrzej Huczynski

### KUSU BUSINESS AND MANAGEMENT LEVEL 1B: MARKETING

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Course lectures take place three times per week on Tuesdays, Wednesdays and Thursdays from 4-5pm. Tutorial sessions are held fortnightly from at various times convenient to the students.

*Requirements of entry:* Normally students would have been expected to have taken 1A.

*Co-requisites:* Should be taken with Business & Management 1A (JRAU) to ensure potential progression to honours.

*Assessment:* A 2000 word essay assignment and a 2 hour examination.

*Aims:* The course aims to introduce the core concepts of marketing and strategic analysis providing foundations for further study of advanced marketing and strategy modules. The aim is to enhance the development of analytical skills by making clear connections between theory and management practice using contemporary examples and applications. The course begins with an induction to marketing concept and a review of fundamentals of competitive analysis including customer/industrial buyer behaviour, segmentation, competitor analysis and marketing research. The second part of the course considers marketing strategies including the concepts of positioning, targeting and marketing mix decisions. The final part examines topical issues in modern marketing such as international marketing, digital marketing or service marketing.

*Course Co-ordinator:* Dr Cleopatra Veloutsou

### **8USU ENTREPRENEURSHIP 1A, ENTREPRENEURSHIP AND INNOVATION**

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Mondays, 1.00pm -2.00 pm (venue to be announced); Wednesdays, 12.00noon - 1.00 pm (venue to be announced); Thursdays, 12.00noon - 1.00 pm (venue to be announced).

*Co-requisites:* None

*Excluded Courses:* Professional Studies for Engineers and Managing Innovation (14A)

*Assessment:* 50% Essay 50% Exam

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The course is designed to help students become aware of the future needs of corporate bodies for employees capable of developing new skills and techniques to assist their changing requirements and for individual professional self-development. It emphasises the need for entrepreneurial and innovation skills. A focus of the course will be on practical innovation within the corporate environment, including both the commercial, public sector and non commercial organisations. This course is designed to introduce the concepts of business growth and entrepreneurial planning. The course is also designed to introduce students to the issues crucial to the development of an innovative managerial culture. The course will draw on the growing body of research and literature related to the development of an innovative culture.

*Course Co-ordinator:* Ms Sheena Bell

### **8UUU ENTREPRENEURSHIP 1B, ENTREPRENEURSHIP AND NEW BUSINESS**

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Mondays 1.00-2.00 p.m., (Venue to be announced); Wednesdays, 12.00-1.00 p.m., (Venue to be announced); Thursdays, 12.00-1.00 p.m., (Venue to be announced)

*Co-requisites:* None

*Excluded Courses:* Business Planning for Scientists.

*Assessment:* 50% Project, 50% Exam.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is designed to introduce the concepts of business growth and entrepreneurial planning through the use of the business plan. The course is also designed to introduce students to the issues crucial to the development of smaller firms, the role and personality of the entrepreneur and the entrepreneurial team, and the relationship of the smaller firm to its environment. It will also include the main functional areas of Business, Marketing, Operations, Finance and Organisation. The course will draw on the growing body of research and literature related to the development of smaller companies.

*Course Co-ordinator:* Ms Sheena Bell

### **9UUU MANAGEMENT 1 (B.ACC)**

*Credits:* 12 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday and Wednesday 9-10 am.

*Requirements of entry:* 1st year compulsory course

*Assessment:* One 3-hour paper (75%); essay (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to the multidisciplinary nature of modern management and to develop an initial sense of the major functions that contribute to competitive performance. By studying elements of strategy, marketing, operations management and organisational behaviour, participants will gain a sense of how accountants interact with other groupings within organisations.

*Course Co-ordinator:* Dr Shameen Prashantham

### **3MHU MANAGERIAL & ORGANISATIONAL CONTEXT E1**

*Credits:* 10 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Wednesday, Thursday 10.00-11.00am, Semester 2

*Requirements of entry:* Service class for engineering

*Assessment:* Students must attend 3 class tests, each worth 25% of the final course mark. In addition, they must submit a 1,500 word assignment

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The applications of scientific research and theory are all around us. We see them in the cars we drive, the computers we use, the video and audio equipment we watch and listen to, the drugs we take when ill. The applications of social science tend to be less visible and most people would find it difficult to point to these. The aim of this course is to show how the research and theories of psychology, social psychology, sociology and politics have been applied by managers and management consultants in the form of techniques and approaches. It will demonstrate how, as future organisation members, students can use such knowledge to become more effective themselves, and to increase the effectiveness of others.

*Course Co-ordinator:* Dr Andrzej Huczynski

### **KUUV BUSINESS AND MANAGEMENT LEVEL 2A OPERATIONS & FINANCIAL DECISION MANAGEMENT**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Course lectures take place four times per week, Tuesdays, Wednesdays, Thursdays and Fridays from 2-3pm. Tutorial sessions are held weekly from weeks 3-11 at various times convenient to the students. These tutorials will be a mixture of between one and two hours long.

*Requirements of entry:* Business and Management Level 1A and 1B at Grade D or better attained at either the first sitting or the first resit attempt and normally within one year of study. Second year students without Business and Management 1A and/or 1B but with Level 1 Social Science subject at grade C or better may be admitted to a maximum of one level 2 course where spaces are available.

*Co-requisites:* Should be taken with B&M Level 2B (KUVV) to ensure potential progression to Honours

*Assessment:* The main forms of assessment are a 2500 word essay assignment and a 2 hour examination. In addition 10% of the final mark will be based on financial exercises submitted during tutorial sessions. Four financial exercises (or homeworks) will be submitted and the best two will contribute to the final grade for the course.

*Aims:* To introduce core areas of operations and financial management, giving attention to the application of key concepts. The course examines key aspects of decision management from two different perspectives: operations and finance. The course covers such topics as production planning, forecasting, quality management, project management, financial accounting, management accounting and financial management. The course begins with an introduction to operations management giving consideration to the strategic significance of planning, quality control and forecasting. The second part of the course focuses on finance matters, examining the

concepts of accounting statements and techniques for external reporting and internal usage, and the sourcing and usage of finance in the enterprise.

*Course Co-ordinator:* Dr James Wilson

### **7KRV BUSINESS AND MANAGEMENT LEVEL 2A STRATEGY**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Wednesday 2.00-3.00 p.m. 3 one hour tutorials to be arranged.

*Requirements of entry:* Business & Management Level 1A and 1B at Grade 'D' or better and attained at either the first sitting or the first resit attempt and normally within one year of study. Second year students without Business & Management 1A and/or 1B, but with a Level 1 Social Science subject at grade 'C' or better may be admitted to a maximum of two level 2 courses.

*Co-requisites:* 2A should be taken with 2B, C and D to ensure potential progression to honours.

*Assessment:* Examination (100%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce core areas of strategy and the competitive environment, giving attention to the application of key concepts and tools. The course will cover strategic analysis of the external environment (e.g. industry analysis) and the internal resources and capabilities of the firm. It will also explore aspects such as the nature of strategic decision making and strategy dynamics in differing contexts (e.g. public sector).

*Course Co-ordinator:* Dr Andrew Johnston

### **7KWW BUSINESS AND MANAGEMENT LEVEL 2C MARKETING**

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Thursday, Friday 2.00-3.00 p.m. 3 one hour tutorials to be arranged.

*Requirements of entry:* Business & Management Level 1A and 1B at Grade 'D' or better and attained at either the first sitting or the first resit attempt and normally within one year of study. Second year students without Business & Management 1A and/or 1B, but with a Level 1 Social Science subject at grade 'C' or better may be admitted to a maximum of two level 2 courses.

*Co-requisites:* 2C should be taken with 2A, B and D to ensure potential progression to honours.

*Assessment:* Examination (100%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce core areas of marketing, giving attention to the application of key concepts and tools. The course will cover aspects such as the marketing concept, the role of marketing, consumer behaviour, new product development and marketing communications. It will also look at issues in marketing research and give consideration to the marketing in a service environment.

*Course Co-ordinator:* Mrs Pamela Castledine

### **89FB BUSINESS & MANAGEMENT 3: CASES IN OPERATIONS MANAGEMENT**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* one 2 hour session a week

*Requirements of entry:* Students should achieve a minimum of a 'D' grade in all four level 2 Business & Management courses. This course is only available to Faculty of Social Science students.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* One three-hour exam. Topic-based questions with answers to draw on case studies that were provided for illustrative purposes during the course.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course will involve the study of generic principles involved in, and the detailed decisions to be made in, the design of appropriate operating systems. These principles and decisions will be reviewed in the context of various demand scenarios. The course will therefore involve consideration of the relationship of operating systems to the market in which an organisation operates, and in studying the resources required will also relate to human resource development aspects. Underpinning the course will be the need for organisational effectiveness and efficiency, linking operations to the financial aspects of business and management. A holistic view will thus be taken.

*Course Co-ordinator:* Dr Geoffrey Southern

### **89YJ BUSINESS & MANAGEMENT 3: MANAGING COMPLEX CHANGE**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* one lecture 2 hours a week

*Requirements of entry:* Students should achieve a minimum of a "D" grade in four level 2 Business and Management courses. This course is only available to Faculty of Social Science students.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Students will be required to select an organisation of their choice and examine its approach to managing change. They will be expected to compare practice with selected theoretical models and explain which models would best suit the change situation in question.

*Degree Examination taken in:* May/June

*Aims:* This course aims to explore, from both an operational and tactical perspective, the context, nature and accomplishment of change in complex situations. It will accomplish this by addressing issues and processes associated with defining the nature and scope of change events and situations; examining vehicles capable of

managing both processes and cultural change; and the managerial and organisational competencies associated with successful change management. The course will provide appropriate frameworks and concepts, explore the nature and context of change, examine alternative change management approaches and philosophies and examine how best to implement predetermined change strategies

*Course Co-ordinator:* Prof Robert Paton

### **0QKW BUSINESS & MANAGEMENT 3: PROJECT MANAGEMENT**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Term 1, Friday 1.00 - 3.00 p.m.

*Requirements of entry:* Students should achieve a minimum of a "D" grade in all four level 2 Business and Management courses. This course is only available to Faculty of Social Science students.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* The assignment is a set case study, to be done by individuals. The exam format is to consist of one mandatory question, with a selection then from a limited set.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims are to introduce the theory and practice of project management: 1. Providing a comprehensive overview of the role of projects within organizations. 2. Providing a comprehensive review of the methods useful for managing projects and their usefulness. 3. Identifying the broader effects of project management for organizations on their people, operations, finances and markets.

*Course Co-ordinator:* Dr James Wilson

### **89FA BUSINESS & MANAGEMENT 3: STRATEGIC MANAGEMENT**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* one lecture; 2 hours per week

*Requirements of entry:* Students should achieve a minimum of a 'D' grade in four level 2 Business & Management courses. This course is only available to Faculty of Social Science students.

*Co-requisites:* none

*Assessment:* One three hour exam.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to develop their understanding of how the theory of strategic management may be translated into practice.

*Course Co-ordinator:* Dr Judith Pate



#### **4K8F BUSINESS & MANAGEMENT 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Honours timetable available from the Honours Handbook

*Requirements of entry:* To gain entry to study honours in Business & Management, candidates must normally have passed all level 2 courses at the first sitting (securing an average C grade or better across all courses). In addition, candidates must normally hold a complete set of non-honours credits prior to the start of their junior honours year (ie a total of 240 credits at grade 'D' or better, including 80 credits at level 2 for X2F and equivalent students)

*Co-requisites:* Prospective students must also satisfy any honours entry criteria set by the proposed joint department.

*Assessment:* All honours papers are assessed at the end of the year in which they are taken. Assessment and final examination weightings vary from course to course.

*Degree Examination taken in:* May/June

*Aims:* To provide advanced students with flexible access to specialist courses in each of the main areas of management. Particular interests can be followed through a broad range of research-based classes that promote a detailed understanding of marketing management, operations and logistics, strategic management or the management of human resources.

*Honours Course Prescription:* Courses amounting to 60 credits in each of the two honours years. Students wishing to take the Dissertation in 4th year must take Management Research Methods in 3rd year.

*Course Co-ordinator:* Dr Robert McMaster

#### **4K8H BUSINESS & MANAGEMENT 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Honours timetable available from the Honours Handbook

*Requirements of entry:* To gain entry to study honours in Business & Management, candidates must normally have passed all level 2 courses at the first sitting (securing an average C grade or better across all courses). In addition, candidates must normally hold a complete set of non-honours credits prior to the start of their junior honours year (ie a total of 240 credits at grade 'D' or better, including 80 credits at level 2 for X2F and equivalent students)

*Assessment:* All honours papers are assessed at the end of the year in which they are taken. Assessments and final examination weightings vary from course to course.

*Degree Examination taken in:* May/June

*Aims:* To develop in students an integrated understanding of key issues and concepts affecting the core areas of management; to cultivate a learning environment in which students develop the ability to critically appraise traditional and contemporary academic thinking

on management issues; to hone students' abilities in applying management tools to real life management problems; to provide an opportunity for students to engage with practitioners in the development of ideas and skills across the range of subject areas; and to generate in students, an appreciation of the range and complexity of managerial and organisational contexts.

*Honours Course Prescription:* Courses amounting to 120 credits, including Management Research Methods and a dissertation, to be taken over year 3H and 4H, i.e. 240 credits. At least one subject must be taken from each of the following four categories: 1) Human Resource Management 2) Marketing 3) Managing Strategy and Finance 4) Operations and Logistics; with other subjects drawn from a list of additional options including a placement option.

*Course Co-ordinator:* Dr Robert McMaster

#### **KMCW BUSINESS & MANAGEMENT LEVEL 3: ENTREPRENEURSHIP AND BUSINESS PLANNING**

*Credits:* 15

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* One meeting of two hours each week

*Requirements of entry:* Students should achieve a minimum of a 'D' grade in all four level 2 Business & Management courses. Students must also meet Faculty progress requirements. This course is only available to Faculty of Law, Business & Social Sciences students.

*Co-requisites:* None

*Excluded Courses:* None

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course outlines the process of business growth, explaining the role of entrepreneurial planning and the use of the business plan. It will offer students the opportunity to examine issues associated with developing small firms, and to consider the role and personality of the entrepreneur and his/her team. These issues will be explored within the context of the external environment and in light of small business research.

*Course Co-ordinator:* Mr Greig Sinclair

#### **KMDW BUSINESS & MANAGEMENT LEVEL 3: MANAGING IN THE PUBLIC SECTOR**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Tuesdays 3.00pm - 5.00pm (Terms 1 and 2)

*Requirements of entry:* Students should achieve a minimum of a 'D' grade in all four level 2 Business & Management courses. Students must also meet Faculty progress requirements. This course is only available to Faculty of Law, Business & Social Sciences students.

*Assessment:* Assessment for this course is based on a combination of written assignment (30% of total mark) and end-of-course final exam (70% of total mark). The assignment takes the form of a written submission of 2000 words

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course aims to:

- provide an introduction to the key issues in public sector management
- outline and analyse the distinctive cultures, processes and structures of public sector organisations
- critically evaluate the forces that contribute to change in public sector institutions and management within them
- address the theories of how and why the state and its institutions have evolved to their current position, their role in the wider economic and social systems and structures and their future trajectory
- address how different public sector institutions and the individuals working within them relate to one another
- assess the implications of structures, practices and strategies for the practice of public sector management

*Course Co-ordinator:* Dr Iain Docherty

#### **4K8G BUSINESS & MANAGEMENT 4H (JOINT)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Honours timetable available from the Honours Handbook

*Requirements of entry:* Satisfactory performance in year 3H assessments.

*Co-requisites:* Prospective students must also satisfy any honours entry criteria set by the proposed joint departments.

*Assessment:* All honours papers are assessed at the end of the year in which they are taken. Assessment and final examination weightings vary from course to course.

*Degree Examination taken in:* May/June

*Aims:* To provide advanced students with flexible access to specialist courses in each of the main areas of management. Particular interests can be followed through a broad range of research-based classes that promote a detailed understanding of marketing management, operations and logistics, strategic management or the management of human resources.

*Honours Course Prescription:* Courses amounting to 60 credits in each of the two honours years. Students wishing to do a dissertation in Business and Management must have completed Management Research Methods during the third year.

*Course Co-ordinator:* Dr Robert McMaster

#### **4K8J BUSINESS & MANAGEMENT 4H (SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Honours timetable available from the Honours Handbook

*Requirements of entry:* Satisfactory performance in year 3H assessments.

*Assessment:* All honours papers are assessed at the end of the year in which they are taken. Courses amounting to 120 credits in each of the honours years including

research methods taken in 3H year and a dissertation taken in 4H year.

*Degree Examination taken in:* May/June

*Aims:* To develop in students an integrated understanding of key issues and concepts affecting the core areas of management; to cultivate a learning environment in which students develop the ability to critically appraise traditional and contemporary academic thinking on management issues; to hone students' abilities in applying management tools to real life management problems; to provide an opportunity for students to engage with practitioners in the development of ideas and skills across the range of subject areas; and to generate in students, an appreciation of the range and complexity of managerial and organisational contexts.

*Honours Course Prescription:* Courses amounting to 120 credits, including Management Research Methods and a dissertation to be taken over year 3H and 4H, i.e. 240 credits. Management Research Methods to be taken in year 3H and dissertation to be completed in year 4H. At least one subject must be taken from each of the following four categories: 1) Human Resources and Management 2) Marketing 3) Managing Strategy and Finance 4) Operations and Logistics; with other subjects drawn from a list of options including a business placement.

*Course Co-ordinator:* Dr Robert McMaster

### **Mathematics**

#### **2HXU MATHEMATICS 1R**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Four days weekly -10.00 am or 11.00 am or 4.00 pm; weekly tutorial; workshops in weeks 3, 5, 7 and 11 of semester 1.

*Requirements of entry:* Pass in SCE Higher Mathematics or equivalent

*Excluded Courses:* Mathematics 1X

*Assessment:* One degree examination (60%) (2 hours); class test (20%), workshops (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* Mathematics 1R is intended to provide a half-year's Mathematics course leading on from the level of SCE Higher Mathematics. It aims in particular, (1) to consolidate fundamental skills (eg in algebra and trigonometry); (2) to extend students' knowledge in calculus and algebra, introducing them to new topics like matrices and complex numbers; (3) to increase students' competence and confidence in handling mathematical ideas and notations that they may meet in further Mathematics courses and in other subjects.

*Course Co-ordinator:* Prof Stephen Pride

#### **2HYU MATHEMATICS 1S**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Four days weekly -11.00 am or 4.00 pm; weekly tutorial; workshops in weeks 3, 5, 7, 9 and 11.

*Requirements of entry:* Pass in SCE Higher Mathematics or equivalent

*Co-requisites:* Mathematics 1R or 1X

*Excluded Courses:* Mathematics 1Y and 1T

*Assessment:* One examination (60%) (2 hours) and Workshops (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Mathematics 1S is intended to build on Mathematics 1R and to provide a further half-year's Mathematics course both for students who intend to specialize in Mathematics and for others. It aims, in particular: a) to introduce the ideas and techniques used to study the behaviour of real functions. [These include the fundamental notions of function and limit, and the derived notions of continuity, differentiability, and integrability]. b) to extend students' knowledge and skills in algebra, geometry, and calculus; c) to explore logical matters relevant to Mathematics and to educate students in the notion of proof in Mathematics and in widely used techniques of proof.

*Course Co-ordinator:* Prof Stephen Pride

## 2JAU MATHEMATICS 1T

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Four days weekly - 10.00 am or 11.00 am; weekly tutorial; workshops in weeks 3, 5, 7, 9, and 11 of semester 2.

*Requirements of entry:* Pass in SCE Higher Mathematics or equivalent.

*Co-requisites:* Mathematics 1R or 1X

*Excluded Courses:* Mathematics 1Y and 1S

*Assessment:* One examination (60%) (2 hours); Workshops (40%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Mathematics 1T is intended to provide a useful and worthwhile half-year's Mathematics course leading on from the level reached in Mathematics 1R. It aims, in particular (1) to increase students' competence and confidence in handling mathematical ideas and notations that they may meet in further Mathematics courses and in other subjects; (2) to develop students' ability to apply Mathematics to practical problems, and more generally to improve their problem-solving capabilities; (3) to extend students' knowledge in calculus and algebra, introducing them to new topics like vectors and the study of differential equations.

*Course Co-ordinator:* Dr David Moore

## 2JBU MATHEMATICS 1X

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Four days weekly - 11.00 am; weekly tutorial; laboratories as arranged

*Requirements of entry:* Grade A in SCE Higher Mathematics and Grade B or better in Advanced Higher Mathematics or equivalently good non-Scottish qualifications eg grade B at A-level

*Excluded Courses:* Mathematics 1R

*Assessment:* One examination (80%) (2 hours 30 minutes); course work (20%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To present an interesting level-1 course for well-qualified students which will enhance their mathematical knowledge, insights, skills and enjoyment as well as enhancing the transferable skills of reasoning, handling of abstract concepts, problem solving, communication, and clarity of presentation.

*Course Co-ordinator:* Dr Neil Dickson

## 2JCU MATHEMATICS 1Y

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Four days weekly - 11.00 am; weekly tutorial; laboratories as arranged.

*Requirements of entry:* As for Mathematics 1X

*Co-requisites:* Mathematics 1X

*Excluded Courses:* Mathematics 1S, Mathematics 1T

*Assessment:* One examination (80%) (2 hours 30 minutes); course work (20%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To present an interesting level-1 course for well-qualified students which will enhance their mathematical knowledge, insights, skills and enjoyment as well as enhancing the transferable skills of reasoning, handling of abstract concepts, problem solving, communication, and clarity of presentation.

*Course Co-ordinator:* Dr Mikhail Feigin

## LBKU MATHEMATICS SKILLS TEST

*Credits:* 0

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Tests are held frequently throughout the session.

*Co-requisites:* Either Mathematics 1R/Mathematics 1S or Mathematics 1R/Mathematics 1T or Mathematics 1X/Mathematics 1Y.

*Assessment:* The skills test will be offered frequently throughout the academic session. Students are allowed to attempt this test many times.

*Aims:* The Mathematics skills test has been introduced to ensure that students, who wish to progress into level 2 Mathematics, attain a high standard of basic mathematics skills.

*Course Co-ordinator:* Prof Kenneth Lindsay

**JUNV MATHEMATICS 2F: FINANCIAL MODELLING**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Weekly lectures Monday, Wednesday 12.00 noon. Fortnightly tutorials and laboratories: Mondays at 3.00 pm (tutorials 1hr, labs 2hrs).

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Assessment:* One degree examination (80%) (1 hour 30 mins), project (20%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The course shows how mathematical methods can be used in economics and finance. The main topics covered are: the determination of prices and production quantities by manufacturers; the mathematical properties of loans and investments, particularly at fixed rates of interest. Course Content 1. Solutions of equations - False position algorithm. 2. Models in economics - Cost, revenue and profit. Supply and demand. Consumption. Depreciation. Production and pricing. Fitting models to data. Using Excel to extrapolate data and derive graphs. 3. Interest - Simple and compound interest. Constant rates of interest. Variable rates of interest. Present value and discount factors. Annuities. Capital and interest. Use Excel to find interest rates and amortization tables. 4. Valuation of securities - Types of security. Fixed interest securities. Price and yield. Makeham's formula.

*Course Co-ordinator:* Dr David Webber

**4AHV MATHEMATICS 2G: MECHANICAL MODELLING**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Tuesdays, Thursdays 1.00 pm. Fortnightly tutorial: Monday 3.00 pm.

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Assessment:* One degree examination (80%) (1 hour 30 minutes), coursework (20%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course provides an introduction to the mathematical modelling of mechanical phenomena involving the motion of a single particle such as a golf ball under the influence of gravity, the orbit of a satellite around the Earth, or the oscillation of a particle on an elastic string.

*Course Co-ordinator:* Dr David Webber

**4ALV MATHEMATICS 2L: LINEAR MODELLING**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Weekly lectures Tuesday, Thursday 1.00 pm. Fortnightly tutorial - Monday 3.00 pm.

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Assessment:* One degree examination (80%) (1 hour 30 minutes); coursework (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course aims to show how large systems of linear equations arise naturally in a variety of modelling applications and how the properties of these equations can be used to extract useful information about the application through a solution of the equations or perhaps through the eigenvalues of the underlying matrix, or some other unspecified procedure.

*Course Co-ordinator:* Dr David Webber

**4ANV MATHEMATICS 2N: NUMBER THEORY AND CRYPTOGRAPHY**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Thursday 10.00 am each week. Tutorial fortnightly: Friday 10.00 am.

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Assessment:* One degree examination (80%) (1 hour 30 mins); coursework (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide an introduction to elementary Number Theory and describe its application to selected topics in Cryptography.

*Course Co-ordinator:* Dr David Webber

**4APV MATHEMATICS 2P: GRAPHS AND NETWORKS**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday, Thursday 10.00 am weekly. Tutorial fortnightly - Friday 10.00 am.

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Assessment:* One degree examination (80%) (1 hour 30 mins); coursework (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course is intended as an introduction to the basic ideas in graph theory and to some of the simpler algorithms of network theory.

*Course Co-ordinator:* Dr David Webber

**JULV MATHEMATICS 2Q: GROUPS AND SYMMETRY***Credits:* 10 *Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Monday and Wednesday 12 noon weekly. Tutorial fortnightly - Friday 12 noon.*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.*Assessment:* One degree examination (80%) (1 hour 30 mins); course work (20%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* To present some basic 2 and 3 dimensional geometry, including ideas and applications of symmetry and symmetry groups.*Course Co-ordinator:* Dr David Webber**4ATV MATHEMATICS 2R: ALGEBRA 1***Credits:* 10 *Level:* 2*When Taught:* Semester 1 (September - January)*Timetable:* Wednesday and Friday 10 a.m or 11 a.m., with tutorials on alternate Mondays.*Requirements of entry:* Grade C in Mathematics 1R or 1X and Grade C in Mathematics 1S or 1Y, normally at the first attempt, and a pass in the Level 1 Mathematics Skills test.*Excluded Courses:* Mathematics 2W*Assessment:* One degree examination (80%) (1 hour 30 mins); coursework (20%).*Degree Examination taken in:* January*Resit Examination taken in:* August/September*Aims:* To provide an introduction to the mainstream of Linear Algebra and, in particular, to introduce the study of abstract vector spaces.*Course Co-ordinator:* Dr David Webber**4AWV MATHEMATICS 2S: ALGEBRA 2***Credits:* 10 *Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Wednesday and Friday at 10am or 11am, with tutorials on alternate Mondays.*Requirements of entry:* Grade C in Mathematics 1R or 1X and Grade C in Mathematics 1S or 1Y, normally at the first attempt, and a pass in the Level 1 Mathematics Skills test.*Co-requisites:* Mathematics 2R*Excluded Courses:* Mathematics 2Z*Assessment:* One degree examination (80%) (1 hour 30 mins); course work (20%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* To build on the work covered in the 2R (Algebra 1) course and explore further topics on Algebra - linear mappings, in particular.*Course Co-ordinator:* Dr David Webber**4AXV MATHEMATICS 2U: ANALYSIS 1***Credits:* 10 *Level:* 2*When Taught:* Semester 1 (September - January)*Timetable:* Tuesday, Thursday at 10am or 11am, with tutorials on alternate Mondays*Requirements of entry:* Grade C in Mathematics 1R or 1X and Grade C in Mathematics 1S or 1Y, normally at the first attempt, and a pass in the Level 1 Mathematics Skills test.*Assessment:* One degree examination (80%) (1 hour 30 mins); coursework (20%).*Degree Examination taken in:* January*Resit Examination taken in:* August/September*Aims:* The common thread running through this course and its sequel in the second semester (2V Analysis 2) is the idea of limit. The aim over the two courses is to give precise definitions of limit in various settings - sets, sequences and functions - and to use these to study summation, continuity, differentiation and integration. The emphasis throughout is on rigorous argument from basic definitions.*Course Co-ordinator:* Dr David Webber**4AYV MATHEMATICS 2V: ANALYSIS 2***Credits:* 10 *Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Tuesday and Thursday at 10am or 11am, with tutorials on alternate Mondays.*Requirements of entry:* Grade C in Mathematics 1R or 1X and Grade C in Mathematics 1S or 1Y, normally at the first attempt, and a pass in the Level 1 Mathematics Skills test.*Co-requisites:* Mathematics 2U*Excluded Courses:* None*Assessment:* One degree examination (80%) (1 hour 30 mins); course work (20%).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* The common thread running through this course and its co-requisite in the first semester (2U Analysis 1) is the idea of limit. The aim over the two courses is to give precise definitions of limit in various setting - sets, sequences, functions - and to use these to study summation, continuity, differentiation and integration. The emphasis throughout is on rigorous argument from basic definitions.*Course Co-ordinator:* Dr David Webber**4BAV MATHEMATICS 2W: LINEAR ALGEBRA 1***Credits:* 10 *Level:* 2*When Taught:* Semester 1 (September - January)*Timetable:* Monday, Wednesday - 10.00 am. Fortnightly tutorials - Friday 10.00 am.*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Excluded Courses:* Mathematics 2R

*Assessment:* One degree examination (80%) (1 hour 30 mins); coursework (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course covers the fundamentals of linear algebra that are applicable throughout science and engineering, and in particular in the physical, chemical and biological sciences, statistics and other parts of mathematics. The aim of the first part of the course is to introduce the idea of a finite dimensional vector space, including the concepts of linear independence, basis, dimension and linear map. The relation between linear maps and matrices will be explained, and this will motivate further study of matrices in the second part of the course, in which the determinant, eigenvalues and eigenvectors of a matrix will be studied. Throughout, all new ideas will be illustrated by examples drawn from applications in small dimensions.

*Course Co-ordinator:* Dr David Webber

### JUQV MATHEMATICS 2X: CALCULUS 1

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday and Thursday at 9 am, or, Tuesday and Thursday at 11 am, or, Tuesday and Thursday at 12 noon. Fortnightly tutorials on Fridays.

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Assessment:* One degree examination (80%) (1 hour 30 mins); coursework (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course covers mathematical methods useful in the Physical and Chemical Sciences and in Statistics. The emphasis is on being able to apply these methods to solve problems rather than on the underlying theory.

*Course Co-ordinator:* Dr David Webber

### JURV MATHEMATICS 2Y: CALCULUS 2

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday and Thursday at 9 am, or, Tuesday and Thursday at 11 am, or, Tuesday and Thursday at 12 noon. Fortnightly tutorial on Friday.

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Co-requisites:* Mathematics 2X

*Excluded Courses:* None

*Assessment:* One degree examination (80%) (1 hour 30 mins); course work (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course covers mathematical methods useful in the physical and chemical sciences and in statistics.

After the course students should have a wider repertoire of mathematical skills and more understanding of how to use them. The emphasis is on being able to apply these methods to solve problems rather than the underlying theory. The course continues on from 2X - Calculus 1.

*Course Co-ordinator:* Dr David Webber

### 4BDV MATHEMATICS 2Z: LINEAR ALGEBRA 2

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday, Wednesday - 10.00 am. Fortnightly tutorial Friday - 10.00 am.

*Requirements of entry:* Mathematics 1R or 1X at grade D and 1S or 1T or 1Y at grade D and a pass in the level 1 Mathematics Skills test.

*Co-requisites:* Mathematics 2W or 2R

*Excluded Courses:* Mathematics 2S

*Assessment:* One degree examination (80%) (1 hour 30 minutes); course work (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course continues the study of linear algebra begun in 2W. After further work on eigenvalues and eigenvectors, the focus will be on diagonalisation of matrices. Quadratic forms and inner products will be studied.

*Course Co-ordinator:* Dr David Webber

### 4WPF APPLIED MATHEMATICS 3H (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Mathematics 2X and 2Y (Calculus 1 and 2), 2R or 2W (Algebra 1 or Linear Algebra 1), 2S or 2Z (Algebra 2 or Linear Algebra 2) plus two other level-2 Mathematics courses (or appropriate level-2 courses in other subjects at the discretion of the Head of Department). Level-2 Mathematics courses fall into two groups, Group 1 (consisting of 2R, 2S, 2U, 2V, 2X and 2Y) and Group 2 (consisting of 2F, 2G, 2J, 2L, 2N, 2P, 2Q, 2W and 2Z). For the Group 1 courses amongst the 60 credits qualifying for entry, the minimum requirement is D on each with a grade point average on these courses of 12. For the Group 2 courses amongst the 60 credits qualifying for entry, the minimum requirement is C on each with a grade point average on these courses of 13. In all these cases, these requirements should be satisfied at the first attempt.

*Assessment:* Each 25-lecture course is examined in a 2-hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Degree Examination taken in:* May/June

*Aims:* The aims of Level 3 are: to provide an introduction to a number of major areas of mathematics rigor-

ously and in depth; to instil the mathematical knowledge and problem solving skills needed to proceed to Level 4; when coupled with further study at level 4, to provide training for those who wish to make a career either in Mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of mathematics through detailed study of the proofs and theorems. The course also aims to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of abstract concepts, problems solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument.

*Honours Course Prescription:* Four courses as follows: Term 1: Differential Equations 1 AND: for those awarded a grade D or better in both Mathematics 2U and 2V, take Newtonian Mechanics; all others take Introductory Analysis. Term 2: Complex Analysis 1, Differential Equations 2. Transferable Skills work (Latex, Maple and one seminar).

*Course Co-ordinator:* Dr Christina Cobbold

#### **4WPH APPLIED MATHEMATICS 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Mathematics 2X and 2Y (Calculus 1 and 2), 2R or 2W (Algebra 1 or Linear Algebra 1), 2S or 2Z (Algebra 2 or Linear Algebra 2) plus two other level-2 Mathematics courses (or appropriate level-2 courses in other subjects at the discretion of the Head of Department. Level-2 Mathematics courses fall into two groups, Group 1 (consisting of 2R, 2S, 2U, 2V, 2X and 2Y) and Group 2 (consisting of 2F, 2G, 2J, 2L, 2N, 2P, 2Q, 2W and 2Z). For the Group 1 courses amongst the 60 credits qualifying for entry, the minimum requirement is D on each with a grade point average on these courses of 12. For the Group 2 courses amongst the 60 credits qualifying for entry, the minimum requirement is C on each with a grade point average on these courses of 13. In all cases, these requirements should be satisfied at the first attempt.

*Assessment:* Each 25-lecture course is examined in a 2-hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Degree Examination taken in:* May/June

*Aims:* The aims of Level 3 are: to provide an introduction to a number of major areas of mathematics rigorously and in depth; to instil the mathematical knowledge and problem solving skills needed to proceed to Level 4; when coupled with further study at level 4, to provide training for those who wish to make a career either in Mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of mathematics through detailed study of the proofs and theorems. The course also aims

to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of abstract concepts, problems solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument.

*Honours Course Prescription:* Eight courses as follows : Term 1: Newtonian Mechanics, Differential Equations 1, Numerical Analysis AND for those awarded grade D or better in both Mathematics 2U and 2V, choose ONE of Designs and Codes or Introductory Algebra or Introductory Topology whilst all others take Introductory Analysis. Term 2: Differential Equations 2, Complex Analysis 1 AND choose TWO from: Classical Geometry, Discrete Mathematics, Dynamical Systems, Mathematical Biology or Mathematical Ecology (given in alternate sessions), Financial Mathematics, Calculus of Variations, Probability.

*Course Co-ordinator:* Dr Christina Cobbold

#### **OPGF APPLIED MATHEMATICS 3M (COMBINED)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade C or better in Mathematics 2R and 2S (Algebra 1 and 2), 2U and 2V (Analysis 1 and 2), and 2X and 2Y (Calculus 1 and 2), with an overall average of grade B or better, all at first attempt.

*Assessment:* Each 25-lecture course is examined in a 2-hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Aims:* The aims of Level 3 are: to provide an introduction to a number of major areas of mathematics rigorously and in depth; to instil the mathematical knowledge and problem solving skills needed to proceed to Level 4; when coupled with further study at level 4, to provide training for those who wish to make a career either in Mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of mathematics through detailed study of the proofs and theorems. The course also aims to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of abstract concepts, problems solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument.

*Honours Course Prescription:* Four courses as follows: Newtonian Mechanics, Differential Equations 1, Differential Equations 2. Choose ONE of: Mathematical Biology or Mathematical Ecology (offered in alternate years), Financial Mathematics, Calculus of Variations, Discrete Mathematics, Classical Geometry, Complex Analysis 1. Transferable Skills work: Maple, Latex, 2 seminars.

*Course Co-ordinator:* Dr Christina Cobbold

**OPHH APPLIED MATHEMATICS 3M (SINGLE)***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* To be advised

*Requirements of entry:* Grade C or better in Mathematics 2R and 2S (Algebra 1 and 2), 2U and 2V (Analysis 1 and 2), and 2X and 2Y (Calculus 1 and 2), with an overall average of grade B or better, all at the first attempt.

*Assessment:* Each 25-lecture course is examined in a 2-hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Aims:* The aims of Level 3 are: to provide an introduction to a number of major areas of mathematics rigorously and in-depth; to instil the mathematical knowledge and problem solving skills, particular to those pertaining to other scientific disciplines, needed to proceed to level-4; when coupled with further study at levels-4 and 5, to provide training for those who wish to make a career either in mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of mathematics through detailed study of the proofs of key theorems. The course also aims to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of abstract concepts, problem solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument; (4) Perception: analytical, critical and modelling skills, able to adapt theory according to circumstances.

*Honours Course Prescription:* Numerical Analysis, Newtonian Mechanics, Differential Equations 1, Introductory Topology, Complex Analysis 1, Differential Equations 2. Plus 2 courses from : Calculus of Variations, Discrete Mathematics, Dynamical Systems, Mathematical Biology or Mathematical Ecology (given in alternate years), Financial Mathematics, Classical Geometry. Transferable Skills work: Latex, Maple and two seminars.

*Course Co-ordinator:* Dr Christina Cobbold**4WTH MATHEMATICAL SCIENCES 3H***Credits:* 120*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses taken

*Requirements of entry:* Computing Science 40 credits, to include 2X (Data Structures and Algorithms), 2Y (Software Design and Implementation). Mathematics 2X and 2Y (Calculus 1 and 2), 2W or 2R (Linear Algebra 1 or Algebra 1), 2Z or 2S (Linear Algebra 2 or Algebra 2). Statistics 2R (Probability), 2S (Statistical Methods), 2X (Probability Models), 2Y (Regression Modelling). A level-2 performance at Grade C or better in each subject is required. In Mathematics, the requirement is Grade D or better in each course with an overall average of Grade C or better.

*Assessment:* There are degree examinations at the end of year three and the end of year four. Assessments for project work will be added to these. Year three work will be weighted as 40% and year four work as 60% of the final assessment.

*Degree Examination taken in:* May/June

*Aims:* To present a broadly based degree programme which will provide a good grounding in Mathematical Sciences with emphasis on algorithmic aspects of these subjects; to develop logical thinking and abstract methods of thought to enhance problem solving skills; to develop the computational skills required to implement solutions of problems in the Mathematical Science area; to give equal weighting to the three subject areas and to integrate the knowledge and skills gained in jointly supervised project work.

*Honours Course Prescription:* The degree programme will consist of lectures and project work with approximately equal input from each of the three departments. The load will correspond to 120 credits in each year. The individual courses in Computing Science are worth 10 credits, except the (level 3) course Professional Software Development 3 which is worth 20 credits, and runs over both terms. Statistics courses are worth 10 credits, Mathematics courses are worth 15 credits. Semester 1: Computing Science - Professional Software Development 3 (continues into semester 2) & Advanced Programming 3 & Algorithmics 3; Mathematics - Introductory Analysis (and short Latex course); Statistics - Inference 3 & Statistical Computing 3. Semester 2: Computing Science - Professional Software Development 3; Mathematics - Discrete Mathematics (and one seminar); Statistics - Multivariate Statistics 3 & Applied Modelling 3 & Probability 3.

*Course Co-ordinator:* Dr Christina Cobbold**406F MATHEMATICS 3H (COMBINED)***Credits:* 60*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses taken

*Requirements of entry:* Grade D or better in Mathematics 2R and 2S (Algebra 1 and 2), 2U and 2V (Analysis 1 and 2), and 2X and 2Y (Calculus 1 and 2), with an overall average of grade C or better, all at the first attempt.

*Assessment:* Each 25-lecture course is examined in a 2 hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Degree Examination taken in:* May/June

*Aims:* The aims of level-3 are: to provide an introduction to a number of major areas of mathematics rigorously and in depth; to instil the mathematical knowledge and problem solving skills needed to proceed to level-4; when coupled with further study at level-4, to provide training for those who wish to make a career either in mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of Mathematics through detailed study of the proofs of key theorems. The course also



aims to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of abstract concepts, problem solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument.

*Honours Course Prescription:* Four courses as follows: Complex Analysis 1; Introductory Algebra; Introductory Topology; ONE of Discrete Mathematics and Groups, Rings and Fields. Additionally, all take Transferable skills work (Latex and seminar).

*Course Co-ordinator:* Dr Christina Cobbold

#### 406H MATHEMATICS 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade D or better in Mathematics 2R and 2S (Algebra 1 and 2), 2U and 2V (Analysis 1 and 2), and 2X and 2Y (Calculus 1 and 2), with an overall average of Grade C or better, all at the first attempt.

*Assessment:* Each 25-lecture course is examined in a 2 hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Degree Examination taken in:* May/June

*Aims:* The aims of level-3 are: to provide an introduction to a number of major areas of mathematics rigorously and in depth; to instil the mathematical knowledge and problem solving skills needed to proceed to level-4; when coupled with further study at level-4, to provide training for those who wish to make a career either in mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of Mathematics through detailed study of the proofs of key theorems. The course also aims to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of abstract concepts, problem solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument.

*Honours Course Prescription:* Term 1 : Introductory Algebra, Newtonian Mechanics, Introductory Topology, Differential Equations 1 Term 2 : Discrete Mathematics, Complex Analysis 1 AND Choose 2 of : Classical Geometry, Differential Equations 2, Groups, Rings and Fields, Dynamical Systems, Mathematical Biology or Mathematical Ecology (given in alternate sessions), Financial Mathematics, Calculus of Variations, Probability. Transferable Skills work (Latex and two seminars).

*Course Co-ordinator:* Dr Christina Cobbold

#### OPBF MATHEMATICS 3M (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Dependent on course options taken.

*Requirements of entry:* Grade C or better in Mathematics 2R and 2S (Algebra 1 and 2), 2U and 2V (Analysis 1 and 2), and 2X and 2Y (Calculus 1 and 2), with an overall average of Grade B or better, all at the first attempt.

*Assessment:* Each 25-lecture course is examined in a 2 hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Aims:* The aims of level-3 are: to provide an introduction to a number of major areas of mathematics rigorously and in depth; to instil the mathematical knowledge and problem solving skills needed to proceed to level-4; when coupled with further study at level-4, to provide training for those who wish to make a career either in mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of Mathematics through detailed study of the proofs of key theorems. The course also aims to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of abstract concepts, problem solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument.

*Honours Course Prescription:* Four courses as follows: Introductory Algebra AND Choose ONE of: Differential Equations 1 and Introductory Topology AND Choose TWO of: Complex Analysis 1; Differential Equations 2; Discrete Mathematics; Groups, Rings and Fields; Classical Geometry. Transferable Skills work: Latex, Maple and 2 seminars.

*Course Co-ordinator:* Dr Christina Cobbold

#### OPFH MATHEMATICS 3M (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade C or better in Mathematics 2R and 2S (Algebra 1 and 2), 2U and 2V (Analysis 1 and 2), and 2X and 2Y (Calculus 1 and 2), with an overall average of Grade B or better, all at the first attempt.

*Assessment:* Each 25-lecture course is examined in a 2 hour Degree Examination. Transferable Skills work will be assigned marks, amounting to 5% of the available marks for Level 3.

*Aims:* The aims of level-3 are: to provide an introduction to a number of major areas of mathematics rigorously and in depth; to install the mathematical knowledge and problem solving skills needed to proceed to levels 4 and 5; when coupled with further study at level-4, to provide training for those who wish to make a career either in mathematics or in a field where mathematical ability and knowledge of modern mathematical techniques is required; to develop an appreciation of the beauty and depth of Mathematics through detailed study of the proofs of key theorems. The course also aims to develop certain transferable skills in students, including (1) Reasoning Skills: logic, the handling of

abstract concepts, problem solving; (2) Communication Skills: the clear and succinct presentation of ideas orally and in writing; (3) Comprehension: the ability to follow a logical argument; (4) Perception: analytical, critical and modelling skills, able to adapt theory according to circumstances.

*Honours Course Prescription:* Introductory Algebra, Introductory Topology, Complex Analysis 1, Discrete Mathematics, Newtonian Mechanics, Differential Equations 1 Plus choose TWO courses from : Classical Geometry, Differential Equations 2, Groups, Rings and Fields, Dynamical Systems, Mathematical Biology/Mathematical Ecology (given in alternate sessions), Financial Mathematics, Calculus of Variations and Probability. Transferable Skills work : Latex, Maple and two seminars.

*Course Co-ordinator:* Dr Christina Cobbold

#### 4APW MATHEMATICS 3P: REAL AND COMPLEX VARIABLES

*Credits:* 20 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures at 9.00 am 2/3 days (alternately) every week. Tutorials fortnightly, time to be arranged.

*Requirements of entry:* Maths 2X at Grade D. Please note: this is one of a package of 4 level-3 courses in Mathematics leading to a designated degree in Mathematics. Full details of the requirements for a designated degree can be found in the Faculties of Science section of the University Calendar. The requirements for the designated degree include a second-year curriculum that includes Mathematics 2X, 2Y, 2W (or 2R) and 2Z (or 2S). An average of a grade D over these 4 level-2 courses is required.

*Assessment:* Class test 20%; end of course examination 80%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to rigorous methods in real and a selection of important topics in complex analysis.

*Course Co-ordinator:* Prof Stephen Cohen

#### 4ARW MATHEMATICS 3Q: ALGEBRA & NUMBER THEORY

*Credits:* 20 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures at 9.00 am 2/3 days (alternately) every week. Tutorials fortnightly, time to be arranged.

*Requirements of entry:* Maths 2R or Maths 2W at Grade D. Please note: this is one of a package of 4 level-3 courses in Mathematics leading to a designated degree in Mathematics. Full details of the requirements for a designated degree can be found in the Faculties of Science section of the University Calendar. The requirements for the designated degree include a second-year curriculum that includes Mathematics 2X, 2Y, 2W (or 2R) and 2Z (or 2S). An average of a grade D over these 4 level-2 courses is required.

*Assessment:* Class test 20%; end of course examination 80%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to basic concepts in number theory and in the theory of groups.

*Course Co-ordinator:* Prof Stephen Cohen

#### 4ATW MATHEMATICS 3R: FINITE MATHEMATICS

*Credits:* 20 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures at 9.00 am 2/3 days (alternately) every week. Tutorials fortnightly, time to be arranged.

*Requirements of entry:* Maths 2R or Maths 2W at Grade D. Please note: this is one of a package of 4 level-3 courses in Mathematics leading to a designated degree in Mathematics. Full details of the requirements for a designated degree can be found in the Faculties of Science section of the University Calendar. The requirements or the designated degree include a second-year curriculum that includes Mathematics 2X, 2Y, 2W (or 2R) and 2Z (or 2S). An average of a grade D over these 4 level-2 courses is required.

*Assessment:* Class test 20%; end of course examination 80%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to linear programming, game theory, and combinatorial topics.

*Course Co-ordinator:* Prof Stephen Cohen

#### 4AWW MATHEMATICS 3S: DIFFERENTIAL EQUATIONS

*Credits:* 20 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures at 9.00 am 2/3 days (alternately) every week. Tutorials fortnightly, time to be arranged.

*Requirements of entry:* Maths 2X at Grade D. Please note: this is one of a package of 4 level-3 courses in Mathematics leading to a designated degree in Mathematics. Full details of the requirements for a designated degree can be found in the Faculties of Science section of the University Calendar. The requirements for the designated degree include a second-year curriculum that includes Mathematics 2X, 2Y, 2W (or 2R) and 2Z (or 2S). An average of a grade D over these 4 level-2 courses is required.

*Assessment:* Class test 20%; end of course examination 80%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To learn a variety of methods for solving ordinary and partial differential equations.

*Course Co-ordinator:* Prof Stephen Cohen

**4WPG APPLIED MATHEMATICS 4H  
(COMBINED)***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses taken*Requirements of entry:* Grade D or better in Applied Mathematics 3H (Combined)

*Assessment:* (a) Each 25-lecture course is examined in a 2-hour Degree Examination, held in May or June. Where a project has been taken, the project report is also considered (it is treated as being equivalent to one Degree Examination paper). (b) (Permission of the Head of Department required) Final Examination 75% (3 courses), plus Project 25%. The final honours classification is based on 60% (4H) and 40% (3M).

*Degree Examination taken in:* May/June

*Aims:* The aim is to provide a challenging and interesting course for able students whose primary interests lie in the application of mathematics either within academia or outwith it, for example, in a commercial or industrial environment. Uniformity of standards between Applied Mathematics and the existing Mathematics degrees will be ensured by: lecturing common course components together; allowing students from each degree programme to participate in options from the other for which they are suitably qualified; examining all students in Applied Mathematics and Mathematics using the same criteria.

*Honours Course Prescription:* Three or four options from the available Level 4 Honours course options. An honours project must be undertaken by the student in their final year. This can be either in mathematics or in their other subject. If a mathematics project is taken then the student will take three mathematics courses. If the project is taken in the other department then the student will have to take four mathematics courses. Zoology/Applied Mathematics students will take Mathematical Biology or Mathematical Ecology (courses given in alternative sessions) as one of their options.

*Course Co-ordinator:* Dr David Haughton**4WPJ APPLIED MATHEMATICS 4H  
(SINGLE)***Credits:* 120*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Timetable will depend on courses taken*Requirements of entry:* Applied Mathematics 3H at Grade D or better

*Assessment:* Each 25-lecture course is examined in a 2-hour Degree Examination, held in May or June. The project report is treated as being equivalent to one Degree Examination paper. The final honours classification is based on 60% (4H) and 40% (3H).

*Degree Examination taken in:* May/June

*Aims:* The aim is to provide a challenging and interesting course for able students whose primary interests lie in the application of mathematics either within academia or outwith it, for example, in a commercial

or industrial environment. Uniformity of standards between Applied Mathematics and the existing Mathematics degrees will be ensured by: lecturing common course components together; allowing students from each degree programme to participate in options from the other for which they are suitably qualified; examining all students in Applied Mathematics and Mathematics using the same criteria.

*Honours Course Prescription:* Choose seven options from each of the term 1 and term 2 lists given in Applied Mathematics 4H (Single) and a Level H project, where not more than four options come from one term's list.

*Course Co-ordinator:* Dr David Haughton**JUGG APPLIED MATHEMATICS 4M  
(COMBINED)***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* To be advised*Requirements of entry:* Grade B or better in Applied Mathematics 3M (Combined)

*Assessment:* Each 25-lecture course is examined in a 2-hour Degree Examination, held in May or June. The compulsory project is treated as being equivalent to one Degree Examination paper.

*Degree Examination taken in:* May/June

*Aims:* The aim is to provide a challenging and interesting course for able students whose primary interests lie in the application of mathematics either within academia or outwith it, for example, in a commercial or industrial environment. Uniformity of standards between Applied Mathematics and the existing Mathematics degrees will be ensured by: lecturing common course components together; allowing students from each degree programme to participate in options from the other for which they are suitably qualified; examining all students in Applied Mathematics and Mathematics using the same criteria.

*Honours Course Prescription:* Three options at Levels H or M (including at most 1 at Level M) AND a Level H project (15 credits)

*Course Co-ordinator:* Dr David Haughton**JUJH APPLIED MATHEMATICS 4M  
(SINGLE)***Credits:* 120*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* To be advised*Requirements of entry:* Applied Mathematics 3M (Single) at Grade B or better.

*Assessment:* Each 25-lecture course is examined in a 2-hour Degree Examination. The compulsory project is treated as being equivalent to one Degree Examination paper.

*Aims:* The aim is to provide a challenging and interesting course for able students whose primary interests lie in the application of mathematics either within academia or outwith it, for example, in a commercial

or industrial environment. Uniformity of standards between Applied Mathematics and the existing Mathematics degrees will be ensured by: lecturing common course components together; allowing students from each degree programme to participate in options from the other for which they are suitably qualified; examining all students in Applied Mathematics and Mathematics using the same criteria.

*Honours Course Prescription:* Seven options at Levels H or M (including at most 2 at level M) AND a Level H Project (15 credits).

*Course Co-ordinator:* Dr David Haughton

#### **4W TJ MATHEMATICAL SCIENCES 4H**

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses taken

*Requirements of entry:* Mathematical Sciences 3H at Grade C

*Assessment:* See Mathematical Sciences 3H

*Degree Examination taken in:* May/June

*Aims:* To present a broadly based degree programme which will provide a good grounding in Mathematical Sciences with emphasis on algorithmic aspects of these subjects; to develop logical thinking and abstract methods of thought to enhance problem solving skills; to develop the computational skills required to implement solutions of problems in the Mathematical Science area; to give equal weighting to the three subject areas and to integrate the knowledge and skills gained in jointly supervised project work.

*Honours Course Prescription:* Mathematics: 3 options (2 Semester 1, 1 Semester 2) from the list given under Mathematics 4H (Single). Statistics: Semester 1 - Stochastic Processes 4, Semester 2 - Financial Statistics 4. Computing Science: Semester 1 - Advanced Algorithms 4, Semester 2 - 2 options. Additionally a project (25 credits) is undertaken, jointly supervised by two departments.

*Course Co-ordinator:* Dr David Haughton

#### **406G MATHEMATICS 4H (COMBINED)**

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Timetable will depend on courses taken

*Requirements of entry:* Grade D in Mathematics 3H

*Assessment:* Three Maths honours exams and a project or four Maths honours exams if the project is taken in another Department. The final honours classification is based on 60% (4H) and 40% (3H).

*Degree Examination taken in:* May/June

*Aims:* See Mathematics 3H (Combined)

*Honours Course Prescription:* Three or four options from the available Level 4 Honours course options. An honours project must be undertaken by the student in their final year. This can be either in mathematics or in their other subject. If a mathematics project is taken then the student will take three mathematics courses.

If the project is taken in the other department then the student will have to take four mathematics courses.

*Course Co-ordinator:* Dr David Haughton

#### **406J MATHEMATICS 4H (SINGLE)**

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade D in Mathematics 3H

*Assessment:* Each 25 lecture course is examined in a 2-hour Degree Examination, held in May or June. The project report is treated as being equivalent to one Degree Examination paper. The final honours classification is based on 60% (4H) and 40% (3H).

*Degree Examination taken in:* May/June

*Aims:* See Mathematics 3H (Single)

*Honours Course Prescription:* Choose seven options from each of the term 1 and term 2 lists given in Mathematics 4H (Single) and a Level H project, where not more than four options come from one term's list.

*Course Co-ordinator:* Dr David Haughton

#### **JUJG MATHEMATICS 4M (COMBINED)**

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade B in Mathematics 3M (Combined)

*Assessment:* 3 options at Levels H or M (including at most 1 at level M) AND a Level H Project (15 credits)

*Aims:* See Mathematics 3M (Combined)

*Honours Course Prescription:* Three courses at Levels H or M (including at most 1 at Level M) AND a Level H Project (15 credits).

*Course Co-ordinator:* Dr David Haughton

#### **JUKJ MATHEMATICS 4M (SINGLE)**

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade B in Mathematics 3M (Single)

*Assessment:* Seven examinations (2 hours). Compulsory project, examined by dissertation.

*Degree Examination taken in:* May/June

*Aims:* See Mathematics 3M (Single)

*Honours Course Prescription:* 7 options at Levels H or M (including at most 2 at Level M) and a Level-H project (15 credits).

*Course Co-ordinator:* Dr David Haughton

#### **0YCG APPLIED MATHEMATICS 5M (COMBINED WITH PHYSICS/ASTRONOMY) LEVEL 5**

*Credits:* 45 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Dependent on courses chosen

*Requirements of entry:* Grade B or better in year 4 is required to progress to Level 5 M Combined. Failing this, students will normally be qualified to graduate with a BSc(Hons).

*Aims:* Refer to Applied Mathematics 3M (combined)

*Honours Course Prescription:* 3 options at level M. A Level M project in either Mathematics or Combination subject or both (topic to be approved by both departments) will also be required.

*Course Co-ordinator:* Dr David Haughton

### **88DJ APPLIED MATHEMATICS 5M (COMBINED) LEVEL 5**

*Credits:* 65 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Dependent on courses chosen

*Requirements of entry:* Grade B or better in year 4 is required to progress to Level 5 M Combined. Failing this, students will normally be qualified to graduate with a BSc(Hons).

*Degree Examination taken in:* May/June

*Aims:* Refer to Applied Mathematics 3M (combined)

*Honours Course Prescription:* 3 options at level M (45 credits) M Level project (40 credits) in either Mathematics or Combination subject or both (topic to be approved by both departments) = 20 credit (0.5 x total assigned to Mathematics)

*Course Co-ordinator:* Dr David Haughton

### **88AM APPLIED MATHEMATICS 5M (SINGLE)**

*Credits:* 120 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Dependent on courses chosen by students.

*Requirements of entry:* Progression to year 5 of the MSci requires a grade B or better for year 4. Failing this, students will normally be qualified to graduate with a BSc (Hons).

*Assessment:* Students are required to take end of course examinations for each of the five 15 credit courses that they are required to complete. They are also required to complete a Level M project which is worth 45 credits.

*Degree Examination taken in:* May/June

*Aims:* Refer to Applied Mathematics 3M (Single)

*Course Co-ordinator:* Dr David Haughton

### **0YDG MATHEMATICS 5M (COMBINED WITH PHYSICS/ASTRONOMY) LEVEL 5**

*Credits:* 45 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Dependent on courses chosen

*Requirements of entry:* Grade B or better in year 4 is required to progress to Level 5 M Combined. Failing this,

students will normally be qualified to graduate with a BSc(Hons).

*Degree Examination taken in:* May/June

*Aims:* Refer to Mathematics 3M (combined)

*Honours Course Prescription:* 3 options at level M. A Level M project in either Mathematics or Combination subject or both (topic to be approved by both departments) will also be required.

*Course Co-ordinator:* Dr David Haughton

### **88DL MATHEMATICS 5M (COMBINED) LEVEL 5**

*Credits:* 65 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Dependent on courses chosen.

*Requirements of entry:* Grade B or better in year 4 is required to progress to Level 5M Combined. Failing this, students will normally be qualified to graduate with a BSc(Hons).

*Degree Examination taken in:* May/June

*Aims:* Refer to Mathematics 3M (Combined)

*Honours Course Prescription:* 3 options at level M. (45 credits) & Level M project (40 credits) in either Mathematics or combination subject or both (topic to be approved by both departments) - 20 credits (0.5 x total assigned to Mathematics)

*Course Co-ordinator:* Dr David Haughton

### **88DH MATHEMATICS 5M (SINGLE)**

*Credits:* 120 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Dependent on course options taken up.

*Requirements of entry:* Progression to year 5 of the MSci requires a grade B or better for year 4. Failing this, students will normally be qualified to graduate with a BSc(Hons).

*Assessment:* Five examinations and one Level M project.

*Degree Examination taken in:* May/June

*Aims:* Refer to level 3M of this programme.

*Honours Course Prescription:* 5 options at Level M and a Level M project (45 credits)

*Course Co-ordinator:* Dr David Haughton

### **88EH MATHEMATICS MSCl PROJECT**

*Credits:* 45 *Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* To be arranged

*Requirements of entry:* See 5M single

*Degree Examination taken in:* May/June

*Aims:* to prepare students for research-based activity involving mathematics to develop independent learning ability, verbal presentation and communication skills

*Course Co-ordinator:* Dr David Haughton

## Music

### 00UU ACOUSTICS AND RECORDING TECHNIQUES (ART)

*Credits:* 20 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Weekly lectures and laboratories/practicals in Music department (Acoustics classes in Physics Department Lecture theatre).

*Requirements of entry:* Admission to BEng and Music Programme (E1)

*Co-requisites:* The E1 course comprises Integrated Musicianship together with the new ART course.

*Assessment:* Continuous assessment. Acoustics lab report, Acoustics essay, two music technology assignments, equally weighted.

*Aims:* To provide an overview of the nature of sound and the acoustics of music, and to instigate the primary skills in recording practice.

*Course Co-ordinator:* Ms Carola Boehm

### 106U B.MUS. (YEAR 1)

*Credits:* 120 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Weekly classes and lectures in Integrated Musicianship (for BMus, including harmony, orchestration and writing about music), Music in Contemporary Culture, History and Performance.

*Requirements of entry:* Pass in the B.Mus. entrance audition and interview.

*Assessment:* Continuous assessment

*Degree Examination taken in:* May/June

*Aims:* To provide a broad vocational course of study covering the core elements of Western Music - Analysis, Aural Perception, Harmony and Counterpoint, Orchestration, Composition, Performance and the History of Music, together with an introduction to the cultural background of many forms of music.

*Course Co-ordinator:* Dr Warwick Edwards

### 8RLU INTEGRATED MUSICIANSHIP 1

*Credits:* 80 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Weekly/Fortnightly 1-hour plenary lecture; weekly tutorial in musicianship; weekly tutorial in harmony and counterpoint; four lectures, six tutorials and four workshops throughout the year in orchestration; ditto, in writing about music.

*Requirements of entry:* Pass in the BMus entrance audition and interview.

*Assessment:* Continuous assessment throughout the course in aural tests (25%), harmony and counterpoint (25%), orchestration (25%) and writing about music (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To bring together students on all three Music Department degree courses, enabling them to gain a close knowledge of a representative selection of the genres and forms of the repertoire of western art and popular music through the last millennium, and to develop a variety of oral, aural and written skills with which to make discriminating analyses of the principal acoustic and structural principles which inform them.

*Course Co-ordinator:* Dr David Code

### 8JKU MUSIC 1

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Weekly/Fortnightly 1-hour plenary lecture; weekly tutorial in musicianship; weekly lectures in Music and Contemporary Culture, six tutorials spread throughout the year.

*Requirements of entry:* Students are expected to have at least a B grade in Music at SQA Higher, or equivalent.

*Assessment:* Continuous assessment throughout the course in aural tests (50%), essays and project in Music in Contemporary Culture (50%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide an introduction to skills in musicianship (as a prerequisite for all further courses in music) and to develop a cultural awareness of the role of music in contemporary society. The Integrated Musicianship classes bring together students on all three Music Department degree courses, enabling them to gain a close knowledge of a representative selection of the genres and forms of the repertoire of western art and popular music through the last millennium, and to develop a variety of oral, aural and written skills with which to make discriminating analyses of the principal acoustic and structural principles which inform them. The music in contemporary culture component will give a broad picture of the way that music has been produced, used and experienced over the last century or so. Its relation to broader cultural trends will be a particular focus of the course, as will the ways in which music has acquired meaning and significance in recent years.

*Course Co-ordinator:* Prof Marjorie Rycroft

### 3TBU MUSIC E1

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Weekly lectures and labs in Acoustics and Recording Techniques; weekly two-hour labs (2nd semester); weekly/fortnightly 1-hour plenary lecture in musicianship; weekly tutorial in musicianship. The musicianship sessions can be replaced by performance (private lessons, entry by audition).

*Assessment:* Continuous assessment. Acoustics lab report, Acoustics essay, two music technology assignments, equally weighted, Aural tests throughout the year.

*Degree Examination taken in:* May/June

*Aims:* To provide an overview of the nature of sound and the acoustics of music, and to investigate its relationship to music technologies. To bring together students on all three Music Department degree courses, enabling them to gain a close knowledge of a representative selection of the genres and forms of the repertoire of western art and popular music through the last millennium, and to develop a variety of oral, aural and written skills with which to make discriminating analyses of the principal acoustic and structural principles which inform them.

*Course Co-ordinator:* Ms Carola Boehm

### **8NGU MUSIC IN CONTEMPORARY CULTURE**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Weekly one-hour lectures, 6 tutorials spread throughout the year. Workshops, as announced.

*Assessment:* Continuous assessment. Two essays (each weighted 25%) and a written report (weighted 50%) based on research undertaken throughout the year on one particular institution of music.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is designed for students who do not necessarily have experience in music notation and theory. However, it will cover issues concerning contemporary culture that will be relevant for all music students and it is not intended to be a superficial survey of repertoire. Using as many of the available departmental faculty as possible, this course aims to give a broad picture of the way that music has been produced, used and experienced over the last century or so. Its relation to broader cultural trends will be a particular focus of the course as will the ways in which music has acquired meaning and significance in recent years.

*Course Co-ordinator:* Prof John Butt

### **1XRB PERFORMANCE LEVEL 1 (FOUNDATION)**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Individual lessons, normally fortnightly over 25 weeks, at times to be arranged between students and teacher; occasional workshops on Thurs, 3-5pm

*Requirements of entry:* B.Mus. - admission to year 1. B.Eng. - entry by audition in October.

*Assessment:* Two recitals of approved programmes, each with a written commentary (not exceeding 500 words), and diary of performances and concert administration undertaken during the session. January - c.10 minutes (25%). June - c.15 minutes (75%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* By the end of the course students will be able: 1) to perform repertoire of approximately the standard of the Advanced Certificate of the Associated Board;

while this gives an indication of the standard of difficulty, greater importance is attached to the choice of pieces commensurate with the student's technical competence, to enable him/her to sing or play well. 2) to understand better the contribution to their development as performers of participation in group performance activity, and 3) to appreciate the importance of the organisational and entrepreneurial aspects of music making in relation to public performance.

*Course Co-ordinator:* Prof Marjorie Rycroft

### **0VGV AESTHETICS AND PHILOSOPHY OF MUSIC (APM) (ONLY AVAILABLE IN 2007-2008)**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Three hours per week, 2 as lectures, 1 as seminar.

*Requirements of entry:* Students should have completed the first year in either BMus, MA or BEng.

*Aims:* Through the close reading of philosophical and aesthetic writings, this course will attempt to focus critical attention on a number of fundamental musical and cultural ideas and ideologies. We will discuss notions such as the work concept, expression, value, beauty, meaning, authenticity, intention and ownership. Group discussion is a key element of this course and all students will be expected to contribute to weekly seminars.

*Course Co-ordinator:* Dr Martin Dixon

### **106V B.MUS. (YEAR 2)**

*Credits:* 120

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on course options

*Requirements of entry:* D grades in B.Mus. (Year 1) course units (120 credits)

*Assessment:* Continuous assessment

*Degree Examination taken in:* May/June

*Aims:* To provide further study of the core elements (q.v. B.Mus.Year 1), in Musical Techniques, History of Genres and Cultures, Composition (intermediate) together with further credit units drawn from options in History, Acoustics and Music Technology, or Performance Intermediate.

*Course Co-ordinator:* Dr Warwick Edwards

### **9SZV COMPOSITION, INTERMEDIATE**

*Credits:* 20

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Weekly lectures; workshops and tutorials tba.

*Requirements of entry:* D grade in Integrated Musicianship.

*Assessment:* Workshop assignment (moderated self-assessment) - 30%; 2 Composition assignments (staff assessed) - 20% and 50%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to develop and apply a range of compositional skills, through exploration of repertoire and techniques based on contemporary and 20th century approaches to composition.

*Course Co-ordinator:* Dr Nicolas Fells

## JCCV MUSIC 2

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on options taken.

*Requirements of entry:* D grade in Music 1.

*Assessment:* Continuous assessment

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a flexible modular programme for those who wish to study Music within the context of an interdisciplinary degree, building on the foundation in musicianship skills and music culture in Music 1. Students take a compulsory core course in musical techniques and choose one course in composition (intermediate) or in the history of musical genres and cultures.

*Course Co-ordinator:* Prof Marjorie Rycroft

## 3TBV MUSIC E2

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on options taken.

*Requirements of entry:* D grade in Music E1, with no component course below E.

*Assessment:* Continuous assessment.

*Degree Examination taken in:* May/June

*Aims:* To build on the foundation of Music E1, in Acoustics, Music Technology and Musicianship, with a core course in Practical Recording and MIDI Processing, together with an option in the history of musical genres and cultures, composition intermediate, musical techniques or performance (foundation or intermediate).

*Course Co-ordinator:* Ms Carola Boehm

## 88CX MUSIC TECHNOLOGY (MT)

*Credits:* 20 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Weekly lectures and laboratories throughout the year.

*Requirements of entry:* Option for BMus and MA students in years 2-3; D grade in BEng 1 (E1), but only available for BEng course from 2006-07.

*Assessment:* Continuous assessment based upon weekly labs, two practical projects (one at in week 9 one in week 23) and final essay.

*Aims:* To introduce and explore the theory and practice of music technology, exploring such techniques as digital editing, compositional tools, sequencing and notation.

*Course Co-ordinator:* Dr Martin Dixon

## 9MYV MUSICAL TECHNIQUES, INTERMEDIATE

*Credits:* 20

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Weekly lectures and/or tutorials.

*Requirements of entry:* Integrated Musicianship (BMus) or Musical Techniques 1. Compulsory core course in BMus 2.

*Co-requisites:* Composition Intermediate (BMus Only)

*Assessment:* Four pieces of work (each weighted 25%), the better of two submissions from each of the four sections of the course.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To acquire insight into selected historical styles and compositional techniques through analysis and imitation.

*Course Co-ordinator:* Prof Marjorie Rycroft

## 1XRC PERFORMANCE LEVEL 2 (INTERMEDIATE)

*Credits:* 20

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Individual lessons, normally fortnightly over 25 weeks, at times arranged between students and teacher; occasional workshops on Thurs 3-5pm

*Requirements of entry:* C grade in Performance, Foundation and satisfactory attendance teachers' reports (BEng, BMus); audition, held at beginning of session (MA).

*Assessment:* Two recitals of approved programmes, each with a written commentary (not exceeding 500 words), and a diary of performances and concert administration undertaken during the session. January - c.15 minutes (25%). June - c.20 minutes (75%).

*Degree Examination taken in:* January

*Resit Examination taken in:* May/June

*Aims:* By the end of the course students will be able: 1) to perform repertoire of a degree of difficulty in advance of that for Performance (Foundation); while this gives an indication of the standard of difficulty, greater importance is attached to the choice of pieces of commensurate with the student's technical competence, to enable him/her to sing or play well. 2) to understand better the contribution to their development as performers of participation in group performance activity, and 3) to appreciate the importance of the organisational and entrepreneurial aspects of music making in relation to public performance.

*Course Co-ordinator:* Prof Marjorie Rycroft

## 9SHV POPULAR MUSIC (ONLY AVAILABLE IN 2007-2008)

*Credits:* 20

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Taught in alternate years. Weekly lectures plus additional events and workshops, as announced.



*Requirements of entry:* Ability to read music notation fluently. This course is normally open only to BMus students and to those on the MA or BEng programmes who have taken Integrated Musicianship.

*Assessment:* Continuous assessment. Three submissions during the session in the form of: annotated transcriptions from performances or recordings; compositional exercises in particular styles or genres; essays

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To understand some of the basic principles of composition and analysis of music, using the materials of the popular music repertoire of the past 100 years as a starting point.

*Course Co-ordinator:* Mr William Sweeney

### 9NMV ROMANTIC SONG (ONLY AVAILABLE IN 2007-2008)

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 lectures per week; 10 tutorials/seminars/workshops spread throughout semester.

*Requirements of entry:* Completion of first-year in MA, BMus or BEng course

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course is designed to introduce students to the tradition of European art song composition, from early German Romanticism through to later Romantic and post-Romantic descendants. It will consist of four units: 1. The early Romantic Lied and song cycle: Schubert and Schumann 2. The later Romantic Lied and song cycle: Brahms, Wolf, Liszt 3. The French melodie: Berlioz, Faure, Debussy, Ravel 4. Post-Romantic Lieder including orchestral song: Mahler, Berg, Strauss

*Course Co-ordinator:* Dr Martin Dixon

### 106W B.MUS. (YEAR 3)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on course options

*Requirements of entry:* D grades in B.Mus. qualifying courses totalling at least 240 credits

*Assessment:* Continuous assessment

*Degree Examination taken in:* May/June

*Aims:* To provide a core course in Historiography and Criticism, together with advanced study in a historical topic, supported by advanced study in Composition and/or Performance and a range of further options, such as Dissertation, Notation and Analysis. To develop initiative, self-reliance and critical ability; and to provide students with the opportunity to develop transferable skills.

*Course Co-ordinator:* Dr Warwick Edwards

### KKYW HISTORIOGRAPHY & CRITICISM

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* 2 lectures/seminars per week.

*Requirements of entry:* D grade in two level 1-2 History of Music courses.

*Assessment:* Continuous assessment, comprising two essays (60%) and two seminar presentations (40%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To survey various approaches to the understanding of historical processes in music. Topics in historiography, source studies, principles of criticism, aesthetics and historical interpretation will be covered.

*Course Co-ordinator:* Dr David Code

### 106D MUSIC 3

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on which options are taken

*Requirements of entry:* Pass at 'D' grade or higher in Music 2.

*Assessment:* Continuous assessment in courses totaling 60 credits.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Students will consolidate their preparation in Music 1 and 2 (which provide a foundation in musicianship, music in culture, musical techniques, music history or composition) with more advanced study of acoustics, history, musical techniques, composition or history.

*Course Co-ordinator:* Prof Marjorie Rycroft

### 106F MUSIC 3H (M.A. JOINT HONOURS)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on which options are taken.

*Requirements of entry:* C grade in Music 2.

*Assessment:* Continuous assessment.

*Degree Examination taken in:* May/June

*Aims:* To provide a flexible modular programme for those who wish to study Music within the context of an interdisciplinary degree; to offer options at a more advanced level, enabling greater specialisation than Music 1 and 2; to develop initiative, self-reliance and critical ability; to provide students with the opportunity to develop transferable skills.

*Honours Course Prescription:* Historiography & Criticism and courses from the list below (subject to availability and to meeting pre-requisites) to the combined total value of 120 credits. At least half Junior Honours choices will be 20-credit courses, while Senior Honours

will normally comprise 30-credit courses. Historiography & Criticism cannot be taken until you have completed at least two courses in music history or musical genres. Lower Level courses (all 20 credits): Acoustics & Music Technology; Composition, Intermediate; Musical Techniques, Intermediate; Performance, Intermediate; Popular Music; J.S. Bach and the Passion Tradition - semester 1; Romantic Song - semester 2; Medieval and Renaissance music - semester 1; Opera. Higher Level courses (all 30 credits): Chamber Music - semester 2; Composition, Higher; Contemporary Music Ensemble; Dissertation; Electroacoustic Composition; Historiography & Criticism - semester 2; Multimedia Analysis & Presentation; Notation; Performance, Higher; Performance Practice; Aspects of Modernity - semester 1; The Music of Scotland - semester 2; Schenkerian Analysis - semester 1.

*Course Co-ordinator:* Prof Marjorie Rycroft

### 106H MUSIC 3H (M.A. SINGLE HONOURS)

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on which options are taken.

*Requirements of entry:* C grade in Music 2.

*Assessment:* Continuous assessment.

*Degree Examination taken in:* May/June

*Aims:* To provide a flexible modular programme for those who wish to study Music within the context of an interdisciplinary degree; to offer options at a more advanced level enabling greater specialisation than Music 1 and 2; to develop initiative, self-reliance and critical ability; to provide students with the opportunity to develop transferable skills.

*Honours Course Prescription:* Historiography & Criticism and courses from the list below (subject to availability and to meeting pre-requisites) to the combined total value of 240 credits. At least half Junior Honours choices will be 20-credit courses, while Senior Honours will normally comprise 30-credit courses. Historiography & Criticism cannot be taken until you have completed at least two courses in music history or musical genres. Lower Level courses (all 20 credits): Acoustics & Music Technology; Composition, Intermediate; Musical Techniques, Intermediate; Performance, Intermediate; Popular Music; J.S. Bach and the Passion Tradition - semester 1; Romantic Song - semester 2; Medieval and Renaissance music - semester 1; Opera. Higher Level courses (all 30 credits): Chamber Music - semester 2; Composition, Higher; Contemporary Music Ensemble; Dissertation; Electroacoustic Composition; Historiography & Criticism - semester 2; Multimedia Analysis & Presentation; Notation; Performance, Higher; Performance Practice; Aspects of Modernity - semester 1; The Music of Scotland - semester 2; Schenkerian Analysis - semester 1.

*Course Co-ordinator:* Prof Marjorie Rycroft

### OVAV STUDIO TECHNOLOGY AND RECORDING PRACTICE

*Credits:* 20 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures and Practical sessions, up to 3 hours per week in concert hall and studios.

*Requirements of entry:* D grade in BEng 2, with no component course below E. Compulsory component in BEng 3.

*Assessment:* Continuous assessment comprising: a live recording (group project, 40%); MIDI project (individual presentation, 20%); session recording (Individual project, 40%).

*Aims:* To provide an advanced grounding in the use of professional sound studios for recording.

*Course Co-ordinator:* Ms Carola Boehm

### 106X B.MUS. (HONOURS)

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on course options

*Requirements of entry:* D passes in the required 18 course units for the B.Mus. General Degree (360 credits), plus either a B pass in Performance (Higher) or a C pass in at least one of Composition (Higher), Dissertation

*Assessment:* Continuous assessment

*Degree Examination taken in:* May/June

*Aims:* To provide for specialisation in one of the three main elements (History, Composition, Performance) supported by a range of options; to develop initiative, self-reliance and critical ability; to provide students with the opportunity to develop transferable skills; at least one Advanced 50-credit unit (in Composition, Dissertation, Edition or Performance) is taken together with a range of 30 credits, as required, to bring cumulative B.Mus. total to 480 credits.

*Course Co-ordinator:* Dr Warwick Edwards

### 106G MUSIC 4H (M.A. JOINT HONOURS)

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on which options are taken.

*Requirements of entry:* Either i) 'C' pass in both Music 1A and Music 2B (with no course unit in Music 2B lower than 'E'), or, ii) 'C' pass in Music 2A. The course assumes a knowledge of music notation, theory and harmony comparable with that required for entry to the B.Mus. course.

*Assessment:* Continuous assessment.

*Degree Examination taken in:* May/June

*Aims:* To provide a flexible modular programme for those who wish to study Music within the context of an interdisciplinary degree; to offer options at a more advanced level, enabling greater specialisation than Music

1 and 2; to develop initiative, self-reliance and critical ability; to provide students with the opportunity to develop transferable skills. Senior Honours will normally comprise 30-credit courses.

*Honours Course Prescription:* Either History of Music 2 or Analysis 2 and four others from Dissertation B (7000 - 10,000 words); any level 1 Composition paper (to be chosen from those not taken in or year 1 or year 2; Free Composition 2; Electroacoustic Composition; Instrumental or Vocal Performance - either level 2, which qualifies as one paper, or level 3, which qualifies as two papers; Counterpoint and Harmony (admission to this class is at the discretion of the Head of Department); History of Music level 1 one period (to be chosen from those not taken in year 1 or year 2; A second History of Music, level 1 (to be chosen from those not taken in year 1 or year 2; Special Paper; a second Special Paper; Analysis 2; Notation; Performance Practice; Acoustics and Studio Techniques; Contemporary Music Ensemble; History and Repertoire; Edition. All courses except the Dissertation must be taken in the year the course is given. Candidates may be called for oral examination.

*Course Co-ordinator:* Dr Steven Campbell

### 106J MUSIC 4H (M.A. SINGLE HONOURS)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Flexible - dependent on which options are taken.

*Requirements of entry:* Either i) 'C' pass in both Music 1A and Music 2B (with no course unit in Music 2B lower than 'E'), or ii) 'C' pass in Music 2A. The course assumes a knowledge of music notation, theory and harmony comparable with that required for entry to the B.Mus. course.

*Assessment:* Continuous assessment.

*Degree Examination taken in:* May/June

*Aims:* To provide a flexible modular programme for those who wish to study Music within the context of an interdisciplinary degree; to offer options at a more advanced level enabling greater specialisation than Music 1 and 2; to develop initiative, self-reliance and critical ability; to provide students with the opportunity to develop transferable skills. Senior Honours will normally comprise 30-credit courses.

*Honours Course Prescription:* Either History of Music 2 or Analysis 2 and nine others from Dissertation B (7000 - 10,000 words); any level 1 Composition paper (to be chosen from those not taken in or year 1 or year 2; Free Composition 2; Electroacoustic Composition; Instrumental or Vocal Performance - either level 2, which qualifies as one paper, or level 3, which qualifies as two papers; Counterpoint and Harmony (admission to this class is at the discretion of the Head of Department); History of Music level 1 one period (to be chosen from those not taken in year 1 or year 2; A second History of Music, level 1 (to be chosen from those not taken in year 1 or year 2; Special Paper; a second Special Paper; Analysis 2; Notation; Performance Practice; Acoustics and Studio Techniques; Contemporary Music Ensemble;

History and Repertoire; Edition. All courses except the Dissertation must be taken in the year the course is given. Candidates may be called for oral examination.

*Course Co-ordinator:* Dr Steven Campbell

### 89FN CHAMBER MUSIC (ONLY AVAILABLE IN 2007-2008)

*Credits:* 30

*Level:* H

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 lectures per week; 2 blocks of seminars during semester; tutorials tba.

*Requirements of entry:* D grades in Music in Contemporary Culture and in one 20 credit course under the category heading 'Studies in the history of genres and cultures'

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Critical and practical approaches to the chamber music of the 18th-21st centuries

*Course Co-ordinator:* Prof Marjorie Rycroft

### 9SEK COMPOSITION, HIGHER

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly lectures; workshops and tutorials tba.

*Requirements of entry:* D grade in Composition, Intermediate.

*Assessment:* 1 Workshop (moderated self-assessment) - 20%; 1 Composition for prescribed ensemble - 30%; 1 Free Composition - 50%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students with a particular talent for composition to take an additional composition unit in which the emphasis is on guided individual work, rather than on particular repertoires or techniques.

*Course Co-ordinator:* Dr Nicolas Fells

### 96NG CONTEMPORARY MUSIC ENSEMBLE

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Workshops/tutorials 2 hours per week.

*Requirements of entry:* B grade in Performance, Foundation or Intermediate. Subject to approval of course co-ordinator.

*Co-requisites:* May only be taken by candidates simultaneously enrolled in Performance, Intermediate or Higher.

*Assessment:* Two ensemble performances of approved programmes, equally weighted.

*Degree Examination taken in:* May/June

*Aims:* To give students a practical acquaintance with the special skills involved in performing contemporary ensemble music.

*Course Co-ordinator:* Dr Nicolas Fells

### **89JA ELECTROACOUSTICS COMPOSITION (ARTS)**

*Credits:* 30 *Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly seminars/laboratory classes.

*Requirements of entry:* D grade in Acoustics and Music Technology. Compulsory course in BEng 4, requiring D grade in BEng 3, with no component course below E.

*Assessment:* Three assignments: Assignment 1 - studio-based compositional study (20%); Assignment 2 - combined analysis & graphic score (30%); Semester 2 - studio composition (50%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to the repertoire, history, language and techniques of electroacoustic music, and to enable students to develop skills in creative expression with musical technologies.

*Course Co-ordinator:* Dr Nicolas Fells

### **89HP NOTATION**

*Credits:* 30 *Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly lectures/workshops, tutorials on computer music notation and project tutorials.

*Requirements of entry:* Normally a D grade in History of Music (Medieval and Renaissance), together with Musical Techniques, Intermediate, either as pre-requisite (D grade) or as co-requisite.

*Co-requisites:* Normally Musical Techniques, Intermediate.

*Assessment:* Continuous assessment, resulting in computer notation exercises (10%), workshop participation (10%); two projects on contrasting musical materials (40% each).

*Degree Examination taken in:* May/June

*Aims:* An introduction to music notation of various periods, to techniques of editing and to music typesetting by computer.

*Course Co-ordinator:* Dr Warwick Edwards

### **89HH PERFORMANCE HIGHER**

*Credits:* 30 *Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Individual lessons, normally weekly over 25 weeks, at times arranged between students and teacher; occasional 2-hour workshops; University concerts, attendance and concert administration.

*Requirements of entry:* B grade in Performance Intermediate and satisfactory attendance and teacher's reports.

*Assessment:* Two recitals of approved programmes, each with a written performance commentary (not exceeding 750 words), and diary of performances and concert administration undertaken during the session. Jan-

uary recital, c. 15 minutes (25%), June recital, c. 30 minutes (75%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Private instructors and course leader will endeavour to prepare students to attain the levels of attainment specified in the Intended Learning Outcomes

*Course Co-ordinator:* Prof Marjorie Rycroft

### **89HJ PERFORMANCE PRACTICE**

*Credits:* 30 *Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly 2-hour lectures, rehearsals, seminars and workshops.

*Requirements of entry:* Music 2 or BMus 2 (preference may be given to those taking Performance options).

*Assessment:* Continuous assessment, resulting in four submissions, equally weighted: two essays (1500 words), one practical demonstration of historically informed performance/jazz/contemporary improvisation, one seminar paper (10 minutes).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To understand issues concerning the performance of music from the Middle Ages up to the recent past. The course is essentially about historical practice (in the widest sense) and how this can be applied to the preparation of performance today. It aims to develop an awareness of stylistic differences in performance and interpretation, both in historical contexts and in current practice.

*Course Co-ordinator:* Prof John Butt

### **9SJK SCHENKERIAN ANALYSIS (ONLY AVAILABLE IN 2007-2008)**

*Credits:* 30 *Level:* H

*When Taught:* Semester 1 (September - January)

*Timetable:* Taught in alternate sessions. Two seminars per week.

*Requirements of entry:* D grade in Musical Techniques Intermediate.

*Assessment:* Continuous Assessment based on three portfolios of exercises (weighting 33.3% each). Each portfolio will contain a selection of exercises derived from the chapters of Forte's text which have been studied up to submission date for that particular portfolio.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To build a repertoire of concepts and techniques for the description of musical structure in tonal compositions, especially those based on concepts enunciated by Heinrich Schenker (1868-1935), and developed, elaborated or modified by other writers in more recent times. Where appropriate, reference will also be made to earlier theorists and theories of tonal music on which Schenker drew. The course assumes a basic knowledge of the principles of harmony and counterpoint, and a

capacity to assign certain broad tonal and thematic features of compositions from the 'standard' repertoire (of the 18th and 19th centuries) to a number of stereotypical formal patterns. Building upon this basic knowledge, the course explores a more sophisticated approach to the analysis of both detailed and global aspects of tonal compositions chosen from this repertoire.

*Course Co-ordinator:* Prof Graham Hair

## 92GC SOFTWARE SYNTHESIS AND COMPOSITION SYSTEMS

*Credits:* 20

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly 2-3 hour seminar/laboratory classes.

*Requirements of entry:* D grade in BEng 2, with no component course below E. Compulsory course in BEng 3.

*Assessment:* Continuous assessment based upon three assignments including composition and technical design aspects, as detailed in the course handout, weighted at 20, 30 and 40%; also small exercises which will be set during the course for submission the following week (10%).

*Aims:* To introduce and explore contemporary computer music environments for synthesising and manipulating sound for creative musical ends.

*Course Co-ordinator:* Dr Nicolas Fells

## Philosophy

### 1CVU PHILOSOPHY 1K: KNOWLEDGE AND THE WORLD

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* The Class Hour is 10.00 am to 11.00 am daily or 2 to 3 pm daily. Fortnightly meeting of tutorial groups.

*Assessment:* One essay (40%) and a final examination (60%).

*Aims:* To introduce students to the study of Philosophy via the study of issues, theories and types of argument arising in epistemology, philosophy of mind and metaphysics. To prepare students for more advanced study in philosophy. To foster analytical thinking via (a) the identification and clarification of conceptual relationships and (b) the identification and evaluation of assumptions and arguments. To develop skills of interpretation, criticism, clarity, relevance and sound argumentation.

*Course Co-ordinator:* Dr Christopher Lindsay

### 1CUU PHILOSOPHY 1M: RIGHT AND WRONG

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* The Class Hour is 10.00 am to 11.00 am daily or 2 to 3 pm daily. Weekly meeting of tutorial groups.

*Assessment:* One essay (40%) and a final examination (60%).

*Aims:* To introduce students to the study of philosophy via the study of issues, theories and types of argument characteristic of moral and political philosophy (but without presupposing or seeking to promote any particular set of moral or political beliefs in the student). To prepare students for more advanced studies in philosophy. To foster analytical thinking, including (a) identifying and clarifying conceptual relationships and (b) identifying and questioning assumptions. To foster interpretation and evaluation of philosophical writings, classic and modern. To develop the skills of criticism and sound argumentation. To foster the communication skills of clarity, relevance and structured reasoning.

*Course Co-ordinator:* Dr Michael Brady

### SOBV PHILOSOPHY 2K: KNOWLEDGE, MEANING & INFERENCE

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* The class hour is 12.00 noon to 1.00p.m. daily. Weekly meetings of tutorial groups and logic tutorial groups.

*Requirements of entry:* Grade D in a level 1 Philosophy course

*Excluded Courses:* Philosophy 7ECV - Knowledge, Meaning and Inference.

*Assessment:* One essay (40%) and a final examination (60%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To continue the study of philosophical issues, theories and types of argument in the theory of knowledge, metaphysics and philosophy of mind. To prepare students for more advanced study in philosophy. To foster interpretation and evaluation of philosophical writings, classic or modern. To develop the skills of criticism and sound argumentation. To foster rigorous critical thinking, including (a) identifying and clarifying conceptual relationships; (b) identifying and questioning assumptions, including one's own; (c) mastering challenging material. To foster the communication skills of clarity, relevance, structured reasoning, and concise expression.

*Course Co-ordinator:* Dr Victoria Harrison

### 8OCV PHILOSOPHY 2M: MORALITY, POLITICS & AUTHENTICITY

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* The class hour is 12 noon to 1 p.m. daily. Weekly meetings of tutorial groups.

*Requirements of entry:* Grade D in a level 1 Philosophy Course

*Excluded Courses:* PHIL 7EDV, Morality, Politics and Authenticity.

*Assessment:* One essay (40%) and a final examination (60%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To survey arguments in moral and political philosophy, building on Level 1 Philosophy courses. Content aims: to provide the student with a broad theoretical and historical background in moral and political philosophy. Skill aims: to foster analytical thinking, including (1) identifying and clarifying conceptual relationships and (2) identifying and questioning assumptions; to foster interpretation and evaluation of philosophical writings; to develop the skills of criticism and sound argumentation; to foster the communication skills of clarity, relevance, and structured reasoning.

*Course Co-ordinator:* Mr Paul Brownsey

### **375F PHILOSOPHY 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The Class hours are 11.00 a.m. to 12.00 noon and 12.00 noon to 1.00 p.m. daily, together with other hours to be arranged.

*Requirements of entry:* Normally two Level 2 Philosophy courses with B in one and C in the other.

*Assessment:* All courses will be assessed at the end of the year in which they are taken. Grades for the six courses count equally in determining the final degree classification.

*Degree Examination taken in:* May/June

*Aims:* To give students a grounding in the central regions of philosophy needed for more advanced study; to teach students to distinguish different types of question and the different methods appropriate to answering them; to encourage students to engage with the topics and debate them for themselves. Skill aims: To foster analytical thinking, including (1) identifying and clarifying conceptual relationships and (2) identifying and questioning assumptions; to foster interpretation and evaluation of philosophical writings, classic or modern; to develop the skills of criticism and sound argumentation; to foster the communication skills of clarity, relevance, and structured reasoning.

*Honours Course Prescription:* In addition to 120 credits from the other subject, the student selects six 20-credit courses in philosophy, comprising three Junior Honours courses in the Junior year (see list under 375H) and three Senior Honours courses in the Senior year.

*Course Co-ordinator:* Dr Adam Rieger

### **375H PHILOSOPHY 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* The Class hours are 11.00 a.m. to 12 noon and 12 noon to 1.00 p.m. daily, together with other hours to be arranged

*Requirements of entry:* Normally two Level 2 Philosophy courses with B in one and C in the other.

*Assessment:* All courses will be assessed at the end of the year in which they are taken. Grades for the twelve courses count equally in determining the final degree classification. The dissertation (written and submitted in fourth year) carries the same weight as one course.

*Degree Examination taken in:* May/June

*Aims:* General aims: To give students a grounding in the central regions of philosophy needed for more advanced study; to teach students to distinguish different types of question and the different methods appropriate to answering them; to encourage students to engage with the topics and debate them for themselves; to teach students to distinguish different types of question and the different methods appropriate to answering them; to encourage students to engage with the topics and debate them for themselves. Skills aims: To foster analytical thinking, including (1) identifying and clarifying conceptual relationships and (2) identifying and questioning assumptions; to foster interpretation and evaluation of philosophical writings, classic or modern; to develop the skills of criticism and sound argumentation; to foster the communication skills of clarity, relevance, and structured reasoning.

*Honours Course Prescription:* Six courses chosen from the following list of Junior Honours courses: History of Modern Philosophy 1, Metaphysics, Epistemology, Philosophy of Language, Philosophy of Mind, Formal Logic, History of Moral and Political Philosophy, Political Philosophy, Moral Philosophy. These will normally be taken in the 3H year. In the fourth year, single honours students write a dissertation in philosophy and choose five courses from a list of Senior Honours courses, which varies from year to year.

*Course Co-ordinator:* Dr Adam Rieger

### **375J PHILOSOPHY 4H ( SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* The Class hours are 11.00 a.m. to 12 noon and 12 noon to 1.00 p.m. daily, together with other hours to be arranged

*Requirements of entry:* Normally two Level 2 Philosophy courses with B in one and C in the other.

*Assessment:* Grades for the 7 courses, the dissertation, and one and a half coursework grades all count equally. The coursework grades are made up as follows: on the whole grade is the average of the marks for the 8 questions in the Junior Honours class examination (two questions on each Junior Honours course); the half grade is mark for the Junior Honours presentation.

*Degree Examination taken in:* May/June

*Aims:* General aims: To give students a grounding in some of the central doctrines in philosophy and in the classic texts where these doctrines were first expounded; to teach students to distinguish different types of question and the different methods appropriate to answering them; to encourage students to engage with the topics and debate them for themselves. Skills aims: To foster analytical thinking, including (1) identifying and clarifying conceptual relationships and (2) identifying and questioning assumptions; to foster interpretation and

evaluation of philosophical writings, classic or modern; to develop the skills of criticism and sound argumentation; to foster the communication skills of clarity, relevance, and structured reasoning.

*Honours Course Prescription:* You choose twelve 20-credit courses, comprising six Junior Honours courses in the Junior year and six Senior Honours courses in the Senior year. One of the senior honours courses must be the Dissertation.

*Course Co-ordinator:* Dr David Bain

### 375G PHILOSOPHY 4H (JOINT)

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* The Class hours are 11.00 a.m. to 12.00 noon and 12.00 noon to 1.00 p.m. daily, together with other hours to be arranged.

*Requirements of entry:* Normally two Level 2 Philosophy courses with B in one and C in the other.

*Assessment:* Grades for the three and a half courses and an extended essay, the essay to count equally with a half course, and a coursework grade made up as follows: 50% is the average of the marks for the Junior Honours class examinations, and 50% is the mark for the Junior Honours presentation.

*Degree Examination taken in:* May/June

*Aims:* To give students a grounding in some of the central doctrines in philosophy and in the classic texts where these doctrines were first expounded; to teach students to distinguish different types of question and the different methods appropriate to answering them; to encourage students to engage with the topics and debate them for themselves. Skill aims: To foster analytical thinking, including (1) identifying and clarifying conceptual relationships and (2) identifying and questioning assumptions; to foster interpretation and evaluation of philosophical writings, classic or modern; to develop the skills of criticism and sound argumentation; to foster the communication skills of clarity, relevance, and structured reasoning.

*Honours Course Prescription:* You choose six 20-credit courses, comprising three Junior Honours courses in the Junior year and three Senior Honours courses in the Senior year.

*Course Co-ordinator:* Dr David Bain

## Physics & Astronomy

### 2KPU ASTRONOMY 1X

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* 4 or 5 days weekly at 1.00 pm, Laboratories certain Tuesdays or Thursdays at 2.30 pm-5.30pm

*Requirements of entry:* Pass in Maths SQA Higher or equivalent. Pass in Physics SQA Standard Grade or equivalent. (Pass in Physics SQA Higher or equivalent is advised).

*Assessment:* One 2 hour examination (75%), assessment of tutorial and laboratory course work (25%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) To present a general introduction to the subject of astronomy, and in particular the areas of solar system physics, positional astronomy and dynamical astronomy; (2) To introduce students to some practical aspects of astronomy through laboratory work; (3) To encourage students to organise their time and work effectively.

*Course Co-ordinator:* Dr Martin Hendry

### 2KRU ASTRONOMY 1Y

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* 4 or 5 days weekly at 1.00 pm, Laboratories certain Tuesdays or Thursdays at 2.30 pm-5.30 pm

*Requirements of entry:* Pass in Maths SQA Higher or equivalent. Pass in Physics SQA Standard Grade or equivalent. (Pass in Physics SQA Higher or equivalent is advised).

*Assessment:* One 2 hour examination (75%), assessment of tutorial and laboratory work (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To present a general introduction to the subject of astronomy in the context of the wider universe - namely the stars & galaxies and cosmology; (2) To introduce students to aspects of observational techniques in astronomy; (3) To introduce students to some practical aspects of astronomy through laboratory work; (4) To encourage students to organise their time and to work effectively.

*Course Co-ordinator:* Dr Martin Hendry

### 2PLU EXPLORING THE COSMOS 1X

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Daily at 1.00 pm

*Assessment:* One 2 hour examination (80%), continuous assessment (20%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) To survey our present understanding of the solar system and of the Sun as the source of energy for life on Earth, together with the possibility of life elsewhere. (2) To provide in this context, for students who do not propose to enter an Honours course in physics, some understanding of how data are gathered, evidence assessed, and argument conducted in a physical science. (3) To convey some appreciation of key episodes in the historical development of our knowledge of the Sun and the solar system.

*Course Co-ordinator:* Dr Peter Sneddon

### 2PMU EXPLORING THE COSMOS 1Y

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Daily at 1.00 pm.

*Assessment:* One 2 hour examination (80%), continuous assessment (20%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To survey our present understanding of the structure and evolution of stars, galaxies and the universe as a whole, and how this is derived from investigating the full range of radiation incident on the Earth. (2) To give some appreciation of key episodes in the historical development of this understanding. (3) To provide in this context, for some students not proposing to enter an Honours course in physics, some understanding of how data are gathered, evidence assessed and argument conducted in a physical science.

*Course Co-ordinator:* Dr Peter Sneddon

## 2PRU PHYSICS 1X

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* 4 or 5 days weekly at 9.00 am, Laboratories and tutorial as arranged

*Requirements of entry:* Pass in Mathematics and normally Physics (SQA Higher or equivalent). In addition, students who wish to follow the 'advanced topics' part of the course should have a grade A or B in Advanced Higher Physics.

*Excluded Courses:* Physics 1P

*Assessment:* One 2 hour examination (60%); assessment of laboratory work (20%); assessment of tutorial assignments (20%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) To ensure students understand the basic ideas of physics in the areas of dynamics (from a vectorial point of view), waves & optics and thermal physics, as a foundation for more advanced study of physics and for application in other sciences; (2) To introduce more advanced topics, particularly special relativity and lasers; (3) To give students experience of experimental physics, by performing and analysing data from a number of straightforward experiments; (4) To develop practice in problem solving, requiring the application of mathematics to explain physical phenomena; (5) To develop the student's ability to keep laboratory records and write reports, including use of a word-processor package, and to introduce the use of a spreadsheet package for the presentation of results; (6) To introduce students to group working within the laboratory setting, and to joint discussion of problem solving strategies within small-group sessions.

*Course Co-ordinator:* Dr Henry Ward

## 2PTU PHYSICS 1Y

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* 4 or 5 days weekly at 9.00 am, Laboratories and tutorial as arranged

*Requirements of entry:* Pass in Mathematics and normally Physics (SQA Higher or equivalent). Students who have a grade A or B in Advanced Higher Physics, who have performed well in P1X will be given the opportunity to follow the 'advanced topics' P1Y course subject to approval of the Class Head.

*Co-requisites:* Physics 1X

*Excluded Courses:* Physics 1Q

*Assessment:* One 2 hour examination (60%), assessment of laboratory work (20%); assessment of tutorial assignments (20%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To ensure students understand the basic ideas of physics in the areas of electricity, electronics and magnetism (using vector formalism where appropriate), and quantum phenomena, as a foundation for more advanced study of physics and for application in other sciences; (2) To apply the concepts learned in Physics 1X to explain some thermal and mechanical properties of matter; (3) To introduce more advanced topics, particularly elementary particle physics; (4) To extend the student's experience of experimental physics; (5) To give further practice in problem solving, requiring the application of mathematics to physical phenomenon; (6) To develop the student's ability in report writing, and in the use of a spreadsheet package for the analysis of experimental results.

*Course Co-ordinator:* Dr Henry Ward

## KHTV ASTRONOMY 2Z

*Credits:* 30

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Lectures, tutorials and supervision held on Tuesday, Wednesday and Thursday at 11.00 am; laboratory Friday 2.30 pm-5.30pm

*Requirements of entry:* Grade D in Astronomy 1X and grade D in Astronomy 1Y

*Assessment:* One 2 and a half hour paper (75%) and assessment of class and laboratory work (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To present an in-depth study, consolidating the elementary introduction of Level 1, of four major themes: observational astrophysics, theoretical astrophysics, stars and their spectra, and relativity and gravitation; (2) To provide training in the principles and practice of astrophysical observing techniques and data analysis using spreadsheets; (3) To provide students with the opportunity to perform fieldwork at a 'dark sky' location, using modern equipment to observe real astrophysical objects; (4) To encourage students to work effectively and to begin to take responsibility for their own education, and to develop their oral and written communication skills.

*Course Co-ordinator:* Dr Lyndsay Fletcher

## 2PLV EXPLORING THE COSMOS 2X

*Credits:* 10

*Level:* 2



*When Taught:* Semester 1 (September - January)

*Timetable:* The class will meet twice weekly 14:00-15:00, Mondays and Wednesdays, weeks 1-12.

*Requirements of entry:* 40 credits at grade D or above in any of: Exploring the Cosmos 1X/1Y; Astronomy 1X/1Y; Physics 1X/1Y; Physics 1P/1Q; Electrical Engineering 1.

*Assessment:* 1-hour degree examination (80%); 2 class tests (20%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course is designed to give a survey of our present understanding of 'The Birth of the Universe' from the Big Bang to the formation of Life on Earth. It is intended for students not wishing to enter an Honours course in Astronomy. The course will particularly focus on Cosmology and how recent discoveries and breakthroughs which are presently taking place at a breathtaking pace may confirm or overturn some of our theories of how the Universe and indeed Life itself began. It aims to provide students with an understanding of how astrophysical/chemical data are gathered and interpreted and argument conducted to answer these very fundamental questions.

*Course Co-ordinator:* Dr Morag Casey

## 2PMV EXPLORING THE COSMOS 2Y

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* The class will meet twice weekly. Mondays and Wednesdays 1400-1500

*Requirements of entry:* 40 credits at Level D or above in any of: 1) Exploring the Cosmos 1X/1Y; 2) Astronomy 1X/1Y; 3) Physics 1X/1Y; 4) Physics 1P/1Q; 5) Electrical Engineering 1; 6) Earth Science 1X

*Assessment:* 1 hour degree examination (80%); 2 class tests (20%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is designed to address the physical factors that affect life on Earth through both structural and atmospheric influences. This is achieved mainly by the studies of geophysical systems on the Earth supplemented by comparisons with the terrestrial planets, revealing the forces that shape these planets. It also aims to introduce and explain the techniques of remote sensing which allow observation of physical parameters of the atmospheres, surface compositions and structures of the Earth, Mars and Venus. The course will explain how physical systems such as the atmosphere and magnetosphere determine the environment on Earth and will compare this with the environments on Venus and Mars. In addition, it will show in what ways the Earth is best suited to the development of life and indicate how this affects the search for extraterrestrial life.

*Course Co-ordinator:* Dr Morag Casey

## 9FWV PHYSICS 2T: C PROGRAMMING UNDER LINUX

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* The lectures will be on Tuesdays and Thursdays at 14:00 during Semester 1. The supervised laboratory sessions will be at times to be agreed with the class. The laboratory will also be available to students at other times during weekdays provided the PCs are not in use by another timetabled class.

*Requirements of entry:* 40 credits at Level 1 with a grade point average of 10

*Co-requisites:* None

*Assessment:* Practical work 30%, Programming test 20%, Degree examination 50%

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are to provide students with a solid grounding in C programming, together with an understanding of the use of the LINUX operating system and experience of using the tools available under LINUX for C programming.

*Course Co-ordinator:* Prof Ralf Kaiser

## 4BMV PHYSICS 2U: LABORATORY SKILLS

*Credits:* 10

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Laboratories: 3 hours per week. Monday or Tuesday or Thursday or Friday 2.00 pm - 5.00 pm

*Requirements of entry:* Physics 1X or 1P and Physics 1Y or 1Q at grade point average of 10

*Excluded Courses:* Physics 2X, Physics 2Y

*Assessment:* Assessment of coursework (100%)

*Aims:* To teach transferable skills, spreadsheets, data acquisition and analysis, preparation of reports and oral presentations, information retrieval, experimental skills and use of measurement apparatus. This course is taught in the context of experiments in Physics.

*Course Co-ordinator:* Dr Craig Buttar

## 4BNV PHYSICS 2X

*Credits:* 30

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Daily - 12.00 noon. Laboratories: 3 hours per week

*Requirements of entry:* Physics 1X and 1Y, Mathematics 1R or 1X and Mathematics 1S, 1T or 1Y, normally all at grade D or better

*Excluded Courses:* Physics 2U

*Assessment:* One 2 hour paper (60%), assessment of coursework (40%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* (1) To offer a study regime which affords an opportunity to learn and understand the main principles

of a number of areas of physics, oscillatory & wave behaviour in classical & quantum systems, Newtonian dynamics, the statistical basis of measurement, and the structural & electrical properties of crystals; (2) To provide training in the principles and practice of physical measurement techniques, and data analysis using spreadsheets; (3) To continue to develop the student's transferable information retrieval and communications skills; (4) To encourage students to work effectively, including as part of a team, and to begin to take responsibility for their own education.

*Course Co-ordinator:* Dr David Ireland

#### 4BPV PHYSICS 2Y

*Credits:* 30

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Daily - 12.00 noon. Laboratories: 3 hours per week

*Co-requisites:* Physics 2X

*Excluded Courses:* Physics 2U

*Assessment:* One 2 hour paper (60%); assessment of coursework (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To offer a study regime which affords an opportunity to learn and understand the main principles of a number of areas of physics, rotational dynamics in an astronomical context, thermal properties at a microscopic level, further elements of electricity and magnetism and introductory nuclear and particle physics; (2) To provide training in the principles and practice of physical measurement techniques and data analysis including evaluation of experimental uncertainties; (3) To continue to develop the student's transferable skills in oral and written communication and computer algebra as an aid to problem solving; (4) To encourage students to work effectively, including as part of a team, and continue to take some responsibility for their own education.

*Course Co-ordinator:* Dr David Ireland

#### 400F ASTRONOMY 3H (COMBINED)

**B.Sc**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday, Friday: 2.00 pm - 5.00 pm; Labs: Monday 12.30 pm - 5.30 pm

*Requirements of entry:* Astronomy and Subject: Astronomy 2Z at Grade D, plus departmental requirement for Subject, all normally at first diet of examinations.

*Assessment:* 75 minute written paper per lecture course component (3) (66.6%); astronomy lab project (16.7%); astronomy oral seminar project (16.7%)

*Degree Examination taken in:* May/June

*Aims:* (1) To present an integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To illustrate the application of methods of mathematics and physics in an

astrophysical context; (3) To provide the opportunity to study in depth a choice of topics relevant to aspects of modern astronomy; (4) To provide training and experience in the principles and practice of astronomical observation and measurement and in the reduction and analysis of observational data; (5) To develop the students' ability to work effectively, singly and in small groups, to reinforce their individual responsibility for their own learning and understanding and to develop further their communication skills.

*Honours Course Prescription:* Galaxies AND Stellar Structure and Evolution OR Instruments for Optical and Radio Astronomy AND Astronomical Data Analysis; 1 option from High Energy Astrophysics OR Circumstellar Matter, or 1 option from Cosmology OR Exploring Planetary Systems.

*Course Co-ordinator:* Dr Declan Diver

#### OSAF ASTRONOMY 3M (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday and Friday afternoons 2.00-5.00pm. Astronomy laboratory: Selected Mondays 12.30 pm-5.30 pm.

*Requirements of entry:* Astronomy and Subject: Astronomy 2Z at grade B, plus departmental requirement for Subject, all normally at first diet of examinations.

*Assessment:* 75 minute written paper per lecture course component (3) (66.6%); astronomy lab project (16.7%); astronomy oral seminar project (16.7%).

*Aims:* (1) To present an in-depth integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments of aspects of modern astrophysics; (4) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (5) To develop the student's problem solving ability, communication and presentation skills to a level appropriate to an academic, research or industrial career; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Stellar Structure and Evolution AND High Energy Astrophysics OR Instruments for Optical and Radio Astronomy AND Cosmology; 1 option from Galaxies OR Circumstellar Matter, or 1 option from Astronomical Data Analysis OR Exploring Planetary Systems.

*Course Co-ordinator:* Dr Declan Diver

#### OSDF ASTRONOMY 3M\* (COMBINED)

*Credits:* 80

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday and Friday afternoons 2.00-5.00pm. Other meetings at times to be arranged. Astronomy laboratory: Selected Mondays 12.30 pm-5.30 pm.

*Requirements of entry:* Astronomy and Subject: Astronomy 2Z at grade B, plus departmental requirement for Subject, all normally at first diet of examinations.

*Assessment:* 75 minute written paper per lecture course component (4.5) (75.0%); astronomy lab project (12.5%); astronomy oral seminar project (12.5%).

*Aims:* (1) To present an in-depth integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments of aspects of modern astrophysics; (4) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (5) To develop the student's problem solving ability, communication and presentation skills to a level appropriate to an academic, research or industrial career; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Stellar Structure and Evolution AND High Energy Astrophysics AND Plasma Theory and Diagnostics OR Instruments for Optical and Radio Astronomy AND Cosmology AND General Relativity and Gravitation; 1 option from Galaxies OR Circumstellar Matter, or 1 option from Astronomical Data Analysis OR Exploring Planetary Systems.

*Course Co-ordinator:* Dr Declan Diver

#### 4WWW ASTRONOMY 3P

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday, Friday: 2.00 pm - 5.00 pm;  
Labs: Monday 12.30 pm - 5.30 pm

*Requirements of entry:* Astronomy 2Z at Grade D

*Assessment:* 75 minute written paper per lecture course component (3) (66.6%); astronomy lab project (16.7%); astronomy oral seminar project (16.7%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To present an integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To illustrate the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of topics relevant to aspects of modern astronomy; (4) To provide training and experience in the principles and practice of astronomical observation and measurement and in the reduction and analysis of observational data; (5) To develop the students' ability to work effectively, singly and in small

groups, to reinforce their individual responsibility for their own learning and understanding and to develop further their communication skills.

*Course Co-ordinator:* Dr Declan Diver

#### 447F PHYSICS 3H (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1 OR 2.

*Requirements of entry:* Physics 2X, 2Y, and Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 10 plus departmental requirement for Subject, all normally at first diet of examinations. Physics and Arts Subjects (MA): Physics 2X, 2Y at a grade point average of 10.

*Assessment:* 75 minute written paper per lecture course component (3) (66.6%); assessment of laboratory/IT skills (33.4%).

*Degree Examination taken in:* May/June

*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of key principles and methods of modern physics; (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications; (3) To provide training in the principles and practice of physical measurement techniques and scientific data analysis, and give the opportunity for the student to apply these in performing an extended project; (4) To develop the student's transferable skills, concentrating on work in a group, the writing of reports on group and individual project work, and in verbal communication of such results; (5) To develop the students' ability to work effectively and to reinforce their individual responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Quantum Mechanics.

*Course Co-ordinator:* Dr Stephen McVitie

#### 447H PHYSICS 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Laboratory: Tuesday and Thursday 11 am-5 pm; attend Semesters 1 and 2.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 10, all normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (6) (66.6%); assessment of laboratory/IT skills (16.7%) (see course guide); group project (16.7%)

*Degree Examination taken in:* May/June

*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of key principles and methods of modern physics; (2) To provide the opportunity to study in

depth a choice of topics relevant to current developments in physics and its applications; (3) To provide training in the principles and practice of physical measurement techniques and scientific data analysis, and give the opportunity for the student to apply these in performing an extended project; (4) To develop the student's transferable skills, concentrating on work in a group (single honours students), the writing of reports on group and individual project work, and in verbal communication of such results; (5) To develop the students' ability to work effectively and to reinforce their individual responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Thermal Physics; Circuits and Systems; Quantum Mechanics; and one option from Numerical Methods; Modern Optics; Medical Imaging.

*Course Co-ordinator:* Dr Stephen McVitie

### OSTF PHYSICS 3M (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semesters 1 or 2.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 14, plus departmental requirement for combined subject, all normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (3) (66.6%); assessment of physics laboratory/IT skills (33.4%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Quantum Mechanics.

*Course Co-ordinator:* Dr Stephen McVitie

### ORSH PHYSICS 3M (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semesters 1 and 2.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 14, all normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (6) (66.6%); assessment of physics laboratory/IT skills (16.7%); group project (16.7%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Thermal Physics; Circuits and Systems; Quantum Mechanics; and one option from Numerical Methods; Modern Optics; Medical Imaging.

*Course Co-ordinator:* Dr Stephen McVitie

### OSWF PHYSICS 3M\* (COMBINED)

*Credits:* 80

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semesters 1 or 2.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 14, plus departmental requirement for combined subject, all normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (4.5) (75.0%); assessment of physics laboratory/IT skills (25.0%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and com-

munication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Quantum Mechanics; Electromagnetism 1; Mathematical Methods 2.

*Course Co-ordinator:* Dr Stephen McVitie

### ORTH PHYSICS 3M\* (SINGLE)

*Credits:* 160

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semesters 1 and 2.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 14, all normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (9) (75.0%); assessment of physics laboratory/IT skills (12.5%); group project (12.5%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Thermal Physics; Circuits and Systems; Quantum Mechanics; Electromagnetism 1; Mathematical Methods 2; and two options from Numerical Methods; Modern Optics; Medical Imaging.

*Course Co-ordinator:* Dr Stephen McVitie

### 4BRW PHYSICS 3P

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged.

Laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1 OR 2.

*Requirements of entry:* Physics 2X and 2Y at a grade point average of 10.

*Assessment:* 75 minute written paper per lecture course component (3) (66.7%); assessment of laboratory/IT skills (33.3%) (see course guide)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To present a course of study which provides the student with knowledge and understanding of key principles and methods in a limited number of areas of modern physics (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications (3) To provide some training in the principles and practice of physical measurement techniques, scientific data analysis, and communication skills (4) To encourage students to work effectively and to grow in their ability to take responsibility for their own learning.

*Course Co-ordinator:* Dr Stephen McVitie

### 4BTW PHYSICS 3Q

*Credits:* 80

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1 OR 2.

*Requirements of entry:* Physics 2X and 2Y at a grade point average of 10

*Assessment:* 75 minute written paper per lecture course component (5) (75.0%); assessment of laboratory/IT skills (25.0%) (see course guide)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To present a course of study which provides the student with knowledge and understanding of key principles and methods in a selected number of areas of modern physics (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications (3) To provide some training in the principles and practice of physical measurement techniques, scientific data analysis, and communication skills (4) To encourage students to work effectively and to grow in their ability to take responsibility for their own learning.

*Course Co-ordinator:* Dr Stephen McVitie

### 4BWW PHYSICS 3R

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1 and 2.

*Requirements of entry:* Physics 2X and 2Y at a grade point average of 10.

*Assessment:* 75 minute written paper per lecture course component (6) (66.6%); assessment of laboratory/IT skills (16.7%) (see course guide); group project (16.7%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To present a course of study which provides the student with knowledge and understanding of key principles and methods in a selected number of areas of modern physics (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications (3) To provide some training in the principles and practice of physical measurement techniques, scientific data analysis, and communication skills (4) To encourage students to work effectively and to grow in their ability to take responsibility for their own learning.

*Course Co-ordinator:* Dr Stephen McVitie

### **ORQH PHYSICS WITH ASTROPHYSICS 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1. Astronomy laboratory: Selected Mondays 12.30 pm-5.30 pm.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 10, all normally at first diet of examination. Additionally Astronomy 1X and 1Y or Exploring the Cosmos 1X and 1Y at grade D, normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (6) (66.6%); assessment of physics laboratory/IT skills (16.7%); astronomy lab project (8.35%); astronomy oral seminar project (8.35%).

*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of key principles and methods of modern physics; (2) To illustrate the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications and modern astronomy; (4) To provide training in the principles and practice of physical measurement techniques, astronomical observation and scientific data analysis, and give the opportunity for the student to apply these in performing extended project work; (5) To develop the students' ability to work effectively, singly and in small groups, to reinforce their individual responsibility for their own learning and understanding and to develop further their communication skills.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Thermal Physics; Quantum Mechanics; plus EITHER Stellar Structure and Evolution AND High Energy Astrophysics OR Instruments for Optical and Radio Astronomy AND Cosmology.

*Course Co-ordinator:* Dr Stephen McVitie

### **ORYH PHYSICS WITH ASTROPHYSICS 3M (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1. Astronomy laboratory: Selected Mondays 12.30 pm-5.30 pm.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 14, all normally at first diet of examination. Additionally Astronomy 1X and 1Y at grade D, normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (6) (66.6%); assessment of physics laboratory/IT skills (16.7%); astronomy lab project (8.35%); astronomy oral seminar project (8.35%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astrophysics; (4) To provide training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (5) To develop measurement, problem solving and critical assessment, and communication skills and apply them in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Thermal Physics; Quantum Mechanics; plus EITHER Stellar Structure and Evolution AND High Energy Astrophysics OR Instruments for Optical and Radio Astronomy AND Cosmology.

*Course Co-ordinator:* Dr Stephen McVitie

### **ORZH PHYSICS WITH ASTROPHYSICS 3M\* (SINGLE)**

*Credits:* 160

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1. Astronomy laboratory: Selected Mondays 12.30 pm-5.30 pm.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 14, all normally at first diet of examination. Additionally Astronomy 1X and 1Y at grade D, normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (9) (75.0%); assessment of physics laboratory/IT skills (12.6%); astronomy lab project (6.2%); astronomy oral seminar project (6.2%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astrophysics; (4) To provide training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (5) To develop measurement, problem solving and critical assessment, and communication skills and apply them in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods; Waves and Diffraction; Thermal Physics; Quantum Mechanics; Electromagnetism 1; Mathematical Methods 2. Plus EITHER Stellar Structure and Evolution AND High Energy Astrophysics OR Instruments for Optical and Radio Astronomy AND Cosmology. Plus EITHER Plasma Theory and Diagnostics OR General Relativity and Gravitation.

*Course Co-ordinator:* Dr Stephen McVitie

### JSZW PHYSICS WITH ASTROPHYSICS 3R

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 1. Astronomy laboratory: Selected Mondays 12.30 pm-5.30 pm.

*Requirements of entry:* Physics 2X and 2Y, plus Mathematics 2X, 2Y, 2W (or 2R) at a grade point average of 10, all normally at first diet of examination. Additionally Astronomy 1X and 1Y or Exploring the Cosmos 1X and 1Y at grade D, normally at first diet of examination.

*Assessment:* 75 minute written paper per lecture course component (6) (66.6%); assessment of physics laboratory/IT skills (16.7%); astronomy lab project (8.35%); astronomy oral seminar project (8.35%).

*Aims:* (1) To present a course of study which provides the student with insight into and general understanding of key principles and methods of modern physics; (2) To introduce the application of methods of mathematics and physics in an astrophysical context; (3) To provide training in the principles and practice of physical measurement techniques, astronomical observation and scientific data analysis; (4) To develop the students' ability to work effectively, singly and in small groups,

to reinforce their individual responsibility for their own learning and understanding and to develop their communication skills.

*Course Co-ordinator:* Dr Stephen McVitie

### OSFH PHYSICS WITH ASTROPHYSICS 4M (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons 2.00-5.00 pm. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 2.

*Requirements of entry:* Grade A-D pass at 3M Physics with Astrophysics (single) at May/June examination diet.

*Assessment:* 75 minute written paper per lecture course component (8) (88.9%); assessment of physics MSci laboratory (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astrophysics; (4) To provide training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (5) To develop measurement, problem solving and critical assessment, and communication skills and apply them in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Solid State; Nuclear and Particle Physics; Atomic Systems; Electromagnetism 1; Mathematical Methods 2; Plasma Theory and Diagnostics OR General Relativity and Gravitation; Stellar Structure and Evolution AND High Energy Astrophysics OR Instruments for Optical and Radio Astronomy AND Cosmology; M-laboratory.

*Course Co-ordinator:* Dr I MacGregor

### 400G ASTRONOMY 4H (COMBINED) B.Sc

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday, Friday: 2.00 pm - 5.00 pm; Labs: Monday 12.30 pm - 5.30 pm

*Requirements of entry:* Astronomy and Subject: Astronomy 2Z at Grade D, plus departmental requirement for Subject, all normally at first diet of examinations.

*Assessment:* Degree assessment for Astronomy contribution: 75 minute written paper per lecture course com-

ponent (3 in 3H, 3 in 4H), (66.6%); assessment astronomy laboratory (16.7%); seminar project (16.7%).

*Degree Examination taken in:* May/June

*Aims:* (1) To present an integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To illustrate the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of topics relevant to aspects of modern astronomy; (4) To provide training and experience in the principles and practice of astronomical observation and measurement and in the reduction and analysis of observational data; (5) To develop the students' ability to work effectively, singly and in small groups, to reinforce their individual responsibility for their own learning and understanding and to develop further their communication skills.

*Honours Course Prescription:* Galaxies AND Stellar Structure and Evolution OR Instruments for Optical and Radio Astronomy AND Astronomical Data Analysis; 1 option from High Energy Astrophysics OR Circumstellar Matter or 1 option from Cosmology OR Exploring Planetary Systems.

*Course Co-ordinator:* Prof John Brown

### OSBG ASTRONOMY 4M (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday and Friday afternoons 2.00-5.00pm. Plus others meetings at times to be arranged.

*Requirements of entry:* Grade A-D passes at 3M Astronomy (joint) plus other Subject at May/June examination diet.

*Assessment:* 75 minute written paper per lecture course component (4.5) (100%)

*Aims:* (1) To present an in-depth integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments of aspects of modern astrophysics; (4) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (5) To develop the student's problem solving ability, communication and presentation skills to a level appropriate to an academic, research or industrial career; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Mathematical Methods 2. Stellar Structure and Evolution AND High Energy Astrophysics AND Plasma Theory and Diagnostics OR Instruments for Optical and Radio Astronomy AND Cosmology AND General Relativity and Gravitation; 1 option from Galaxies OR Circumstellar Matter, or 1

option from Astronomical Data Analysis OR Exploring Planetary Systems.

*Course Co-ordinator:* Dr Declan Diver

### OSEG ASTRONOMY 4M\* (JOINT)

*Credits:* 80

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday and Friday afternoons 2.00-5.00pm.

*Requirements of entry:* Grade A-D passes at 3M\* Astronomy (joint) plus other Subject at May/June examination diet.

*Assessment:* Degree assessment for Astronomy contribution: 75 minute written paper per lecture course component (4.5 in 3M\*, 6 in 4M\*), (77.7%); assessment of 3M laboratory (5.6%); 3M seminar project (5.6%); M project (11.1%).

*Aims:* (1) To present an in-depth integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments of aspects of modern astrophysics; (4) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (5) To develop the student's problem solving ability, communication and presentation skills to a level appropriate to an academic, research or industrial career; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* EITHER Stellar Structure and Evolution; High Energy Astrophysics; Galaxies; Circumstellar Matter; Plasma Theory and Diagnostics; Pulsars and Supernovae, OR Instruments for Optical and Radio Astronomy; Cosmology; Astronomical Data Analysis; Exploring Planetary Systems; General Relativity and Gravitation; Statistical Astronomy.

*Course Co-ordinator:* Dr Declan Diver

### OSCG ASTRONOMY 5M (JOINT)

*Credits:* 40

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday and Friday afternoons 2.00-5.00pm.

*Requirements of entry:* Grade A-D passes at 4M Astronomy (Joint) plus other Subject at May/June examination diet.

*Assessment:* Degree assessment for Astronomy contribution: 75 minute written paper per lecture course component (3 in 3M, 4.5 in 4M, 3 in 5M), (77.7%); assessment of 3M laboratory (5.6%); 3M seminar project (5.6%); M project (11.1%).



*Aims:* (1) To present an in-depth integrated course of study providing students with knowledge and understanding of the astrophysical universe, and of the methods and principles of astrophysical enquiry; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments of aspects of modern astrophysics; (4) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (5) To develop the student's problem solving ability, communication and presentation skills to a level appropriate to an academic, research or industrial career; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Plasma Theory and Diagnostics AND Pulsars and Supernovae OR General Relativity and Gravitation AND Statistical Astronomy; 1 option from Galaxies, Circumstellar Matter, Astrophysical Data Analysis, Exploring Planetary Systems.

*Course Co-ordinator:* Dr Declan Diver

#### 447G PHYSICS 4H (COMBINED)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged.

*Requirements of entry:* Grade A-D passes in 3H Physics and combined honours subject at the preceding May/June examination diet.

*Assessment:* Degree assessment for Physics contribution: 75 minute written paper per lecture course component (3 in 3H, 4 in 4H) (75.0%); assessment of 3H laboratory/IT skills (16.7%); 4H project (8.3%).

*Degree Examination taken in:* May/June

*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of key principles and methods of modern physics; (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications; (3) To provide training in the principles and practice of physical measurement techniques and scientific data analysis, and give the opportunity for the student to apply these in performing an extended project; (4) To develop the student's transferable skills, concentrating on work in a group, the writing of reports on group and individual project work, and in verbal communication of such results; (5) To develop the students' ability to work effectively and to reinforce their individual responsibility for their own learning.

*Honours Course Prescription:* Electromagnetism 1; two from the following: Solid State; Nuclear and Particle Physics; Atomic Systems; 1 option from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic

Signal Transmission; Particle Physics; Nuclear Physics. (Some options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Dr I MacGregor

#### 447J PHYSICS 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. Project: 100 hours as arranged, Semester 1.

*Requirements of entry:* Grade A-D pass at 3H Physics(single) at May/June examination diet.

*Assessment:* Degree assessment: 75 minute written paper per lecture course component (6 in 3H, 8 in 4H) plus problem paper (75.0%); assessment of 3H laboratory/IT skills (8.33%); 3H group project (8.33%); 4H project (8.33%).

*Degree Examination taken in:* May/June

*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of key principles and methods of modern physics; (2) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications; (3) To provide training in the principles and practice of physical measurement techniques and scientific data analysis, and give the opportunity for the student to apply these in performing an extended project; (4) To develop the student's transferable skills, concentrating on work in a group (single honours students), the writing of reports on group and individual project work, and in verbal communication of such results; (5) To develop the students' ability to work effectively and to reinforce their individual responsibility for their own learning.

*Honours Course Prescription:* Solid State; Nuclear and Particle Physics; Atomic Systems; Electromagnetism 1; and 4 options from the list below. Options: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr I MacGregor

#### 0SUG PHYSICS 4M (COMBINED)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged.

*Requirements of entry:* Grade A-D passes at 3M Physics (combined) plus combined subject at May/June examination diet.

*Assessment:* 75 minute written paper per lecture course component (4.5) (100%)

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional

physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Electromagnetism 1; Mathematical Methods 2. Two from list: Solid State; Nuclear and Particle Physics; Atomic Systems. 1 option from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics. (Some options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Dr I MacGregor

### ORUJ PHYSICS 4M (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional courses at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 2.

*Requirements of entry:* Grade A-D pass at 3M Physics (single) at May/June examination diet.

*Assessment:* 75 minute written paper per lecture course component (8) (88.9%); assessment of physics MSci laboratory (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Solid State; Nuclear and Particle Physics; Atomic Systems; Electromagnetism

1; Mathematical Methods 2; 1 option from the list: Numerical Methods; Modern Optics; Medical Imaging; 2 options from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; M-laboratory. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr I MacGregor

### OSXG PHYSICS 4M\* (COMBINED)

*Credits:* 80

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged.

*Requirements of entry:* Grade A-D passes at 3M\* Physics (combined) and combined subject at May/June examination diet.

*Assessment:* Degree assessment for Physics contribution: 75 minute written paper per lecture course component (4.5 in 3M\*, 6 in 4M\*) plus problem paper (77.8%); assessment of 3M laboratory/IT skills (11.1%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* 2 options from the list: Solid State; Nuclear and Particle Physics; Atomic Systems; 2 option from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 2 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr I MacGregor

### ORVJ PHYSICS 4M\* (SINGLE)

*Credits:* 160

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged. M-laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 2.

*Requirements of entry:* Grade A-D pass at 3M\* Physics (single) at May/June examination diet.

*Assessment:* Degree assessment: 75 minute written paper per lecture course component (9 in 3M\*, 12 in 4M\*) plus problem paper (77.7%); assessment of 3M\* laboratory/IT skills (5.6%); 3M\* group project (5.6%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Solid State; Nuclear and Particle Physics; Atomic Systems; 4 options from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 5 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics; M-laboratory. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr I MacGregor

### OSVG PHYSICS 5M (COMBINED)

*Credits:* 40

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged.

*Requirements of entry:* Grade A-D passes at 4M Physics (combined) and combined subject at May/June examination diet.

*Assessment:* Degree assessment for Physics contribution: 75 minute written paper per lecture course component (3 in 3M, 5 in 4M, 3 in 5M) plus problem paper (77.8%); assessment of 3M laboratory/IT skills (11.1%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of

modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* 1 option from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 2 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr I MacGregor

### 88RG PHYSICS 5M (EXCHANGE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged.

*Requirements of entry:* Appropriate performance at home institution

*Assessment:* Degree assessment: 75 minute written paper per lecture course component (6) plus problem paper (66.7%); M project or further written papers (33.3%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* 3 honours components from the list: Solid State Physics; Nuclear and Particle Physics; Atomic Systems; Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 3 honours components from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. One or more of the components may be replaced by an equivalent level component from another department. M project (optionally M project may be replaced by 3 further lecture course components).

*Course Co-ordinator:* Dr I MacGregor

### ORWJ PHYSICS 5M (SINGLE)

*Credits:* 80

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Additional meetings at times to be arranged.

*Requirements of entry:* Grade A-D pass at 4M Physics (single) at May/June examination diet.

*Assessment:* Degree assessment: 75 minute written paper per lecture course component (6 in 3M, 8 in 4M, 6 in 5M) plus problem paper (74.0%); assessment of 3M laboratory/IT skills (5.6%); 3M group project (5.6%); M laboratory (3.7%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* 2 options from the list: Numerical Methods; Modern Optics; Medical Imaging; Astronomy 1; Astronomy 2; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics; 4 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. (Some options have prerequisite core courses - refer to Course Guide)

*Course Co-ordinator:* Dr I MacGregor

### ORRJ PHYSICS WITH ASTROPHYSICS 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons. Additional meetings at times to be arranged. Physics project: 50 hours as arranged, semester 2. Astronomy laboratory: Selected Mondays 12.30 pm-5.30 pm.

*Requirements of entry:* Grade A-D pass at 3H Physics with Astrophysics at May/June examination diet.

*Assessment:* Degree assessment: 75 minute written paper per lecture course component (6 in 3H, 8 in 4H) plus problem paper (75.0%); assessment of 3H laboratory/IT skills (8.33%); astronomy laboratory (8.33%); 3H seminar project (4.17%); 4H project (4.17%).

*Aims:* (1) To present an integrated course of study which provides the student with knowledge and understanding of key principles and methods of modern physics; (2) To illustrate the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of topics relevant to current developments in physics and its applications and modern astronomy; (4) To provide training in the principles and practice of physical measurement techniques, astronomical observation and scientific data analysis, and give the opportunity for the student to apply these in performing extended project work; (5) To develop the students' ability to work effectively, singly and in small groups, to reinforce their individual responsibility for their own learning and understanding and to develop further their communication skills.

*Honours Course Prescription:* Solid State; Nuclear and Particle Physics; Atomic Systems; Electromagnetism 1; and 2 options from the list below. Options: Numerical Methods; Modern Optics; Medical Imaging; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics. Plus EITHER Stellar Structure and Evolution AND High Energy Astrophysics OR Instruments for Optical and Radio Astronomy AND Cosmology. (Some physics options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Dr I MacGregor

### OSJJ PHYSICS WITH ASTROPHYSICS 4M\* (SINGLE)

*Credits:* 160

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons 2.00-5.00 pm. Additional meetings at times to be arranged. Physics laboratory: Tuesday and Thursday 11 am-5 pm; attend Semester 2.

*Requirements of entry:* Grade A-D pass at 3M\* Physics with Astrophysics (single) at May/June examination diet.

*Assessment:* Degree assessment: 75 minute written paper per lecture course component (9 in 3M\*, 12 in 4M\*)

plus problem paper (77.7%); assessment of 3M\* laboratory/IT skills (5.6%); astronomy laboratory (2.8%); 3M\* seminar project (2.8%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To develop the student's competence in the application of methods of mathematics and physics in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astrophysics; (4) To provide training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (5) To develop measurement, problem solving and critical assessment, and communication skills and apply them in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Solid State; Nuclear and Particle Physics; Atomic Systems. 2 options from the list: Numerical Methods; Modern Optics; Medical Imaging; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics. 3 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics; M-laboratory. Stellar Structure and Evolution AND High Energy Astrophysics OR Instruments for Optical and Radio Astronomy AND Cosmology. Plasma Theory and Diagnostics OR General Relativity and Gravitation. 1 option from the list: Galaxies; Circumstellar Matter; Astronomical Data Analysis; Exploring Planetary Systems. (Some options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Dr I MacGregor

### OSGJ PHYSICS WITH ASTROPHYSICS 5M (SINGLE)

*Credits:* 80

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday 10 am and 11 am, Tuesday-Friday 10 am. Wednesday and Friday afternoons 2.00-5.00 pm. Additional meetings at times to be arranged.

*Requirements of entry:* Grade A-D pass at 4M Physics with Astrophysics (single) at May/June examination diet.

*Assessment:* Degree assessment: 75 minute written paper per lecture course component (6 in 3M, 8 in 4M, 6 in 5M) plus problem paper (74.0%); assessment of 3M laboratory/IT skills (5.6%); astronomy laboratory (2.8%); 3H seminar project (2.8%); M laboratory (3.7%); M project (11.1%).

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To develop the student's competence in the application of methods of mathematics and physics

in an astrophysical context; (3) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astrophysics; (4) To provide training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (5) To develop measurement, problem solving and critical assessment, and communication skills and apply them in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively as individuals and in small groups, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* 2 options from the list: Numerical Methods; Modern Optics; Medical Imaging; Magnetism and Superconductivity; Semiconductor Physics and Devices; Electronic Signal Transmission; Particle Physics; Nuclear Physics. 2 options from the list: Advanced Quantum Mechanics; Electromagnetism 2; Statistical Mechanics; Imaging and Microanalysis; Dynamics and Relativity; Detectors for Nuclear and Particle Physics. 1 option from the list: Galaxies; Circumstellar Matter; Astronomical Data Analysis; Exploring Planetary Systems. 1 option from Plasma Theory and Diagnostics; General Relativity and Gravitation. (Some options have prerequisite core courses - refer to Course Guide).

*Course Co-ordinator:* Prof John Brown

### ORXJ PHYSICS/ASTRONOMY M PROJECT

*Credits:* 40

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* At times to be arranged with supervisors.

*Requirements of entry:* Grade A-D pass at 3M\* or 4M Physics or related course(s) at May/June examination diet.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To present an integrated course of study which describes, analyses and relates the principles of modern physics at a level appropriate for a professional physicist; (2) To provide the opportunity to study in depth a choice of advanced treatments and applications of aspects of modern physics and astronomy; (3) To provide further training and experience in the principles and practice of physical measurement techniques, using advanced instrumentation where appropriate, and in the critical analysis of experimental data; (4) To develop problem solving abilities, critical assessment and communication skills, to a level appropriate for a career of leadership in academia or industry, and to give students the experience of group work; (5) To offer the opportunity to apply measurement, problem solving and critical assessment, and communication skills in performing and writing a report on an extended and demanding project; (6) To encourage students to work effectively, to develop a professional attitude to what they do and to take full responsibility for their own learning.

*Honours Course Prescription:* Project comprises technical essay, project work, report and poster presentation.

*Course Co-ordinator:* Dr Paul Soler

## Politics

### ONVU POLITICS 1A: INTRODUCTION TO LIBERAL DEMOCRACY

*Credits:* 20 *Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Tuesday, Wednesday, Thursday, 1-2 pm in Semester 1. Tutorials: Mondays 10-11 am, 11-12 noon, 12-1 pm, 1-2 pm.

*Requirements of entry:* None.

*Assessment:* Final Examination (70%) Class Essay (20%) Tutorial Performance (10%)

*Aims:* To deal with the nature of liberal democracy by focusing on institutional structures; power relations; the relationship between mechanisms of collective choice, such as elections and referenda, and the individual behaviour of voters; the role of values, such as freedom, distributive justice, democracy and civil disobedience, in liberal democratic debate.

*Course Co-ordinator:* Dr Paul Graham

### 0QYU POLITICS 1B: COMPARATIVE POLITICS

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Tuesday, Wednesday, Thursday, 1-2pm in Semester 2. Tutorials: Mondays 10-11 am, 11-12 noon, 12-1 pm.

*Requirements of entry:* None.

*Assessment:* Final Examination (70%) Class Essay (20%) Tutorial Performance (10%)

*Aims:* To introduce the key concepts (such as the state, legitimacy, sovereignty, nations and nationalism, democracy and authoritarianism). To introduce the principal issues in comparative political analysis (for example why and under what circumstances do revolutions or democratic transitions occur?). To identify the most important political institutions, actors, and political processes (for example, parliaments, the presidency, political parties, elections and voters) in a small number of major contemporary states that illustrate democratic, partially democratic, and authoritarian political systems (for example the United States, Russia, and China) and discuss them in relation to the key concepts and issues in comparative political analysis.

*Course Co-ordinator:* Prof Brian Girvin

### 0QHV POLITICS 2A: HISTORY OF POLITICAL THOUGHT

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Tuesday, Wednesday, Thursday, 9-10am. Tutorials: Wednesday 1-2pm, 2-3pm; Thursday 12-1pm, 1-2pm, 3-4pm; Friday 11-12pm, 12-1pm.

*Requirements of entry:* Grade D or better in either Politics 1A or Politics 1B.

*Assessment:* Final Examination (60%) Best of 2 essays (30%) Tutorial Performance (10%)

*Aims:* To deal with the development of the vocabulary, concepts and issues in political thinking from textual analysis of canonical texts.

*Course Co-ordinator:* Prof Christopher Berry

### 0QFV POLITICS 2B: INTERNATIONAL RELATIONS

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Tuesday, Wednesday, Thursday, 9-10am. Tutorials: Wednesday 1-2pm, 2-3pm; Thursday 12-1pm, 1-2pm, 3-4pm; Friday 11-12pm, 12-1pm.

*Requirements of entry:* Grade D or better in either Politics 1A or Politics 1B.

*Assessment:* Final Examination (60%) Best of 2 essays (30%) Tutorial Performance (10%)

*Aims:* To examine critically different approaches to understanding international relations; identify the most important actors in international politics; identify the most important international institutions framing international politics; explore the most pressing problems confronting international politics today.

*Course Co-ordinator:* Prof Christopher Berry

### 0QLW ISSUES IN DEMOCRACY AND GOVERNMENT IN SCOTLAND

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: Wednesday 2-3 pm Seminars: Thursday 11 am - 1 pm

*Requirements of entry:* Normally Grade D or better in Politics 2A and 2B.

*Assessment:* 1. Class essay (1) - Term 1, Week 10; Class essay (2) - Term 2, Week 10; The better of these two essays will count for 30%. 2. Extended essay - End April/early May = 30%. 3. Degree examination - May/June = 30%. 4. Seminar contribution = 10%.

*Aims:* To deliver a course which: builds upon and develops the substantive material taught in Politics at Levels 1 and 2 by focusing on the specific themes of democracy and of government in Scotland; is analytic and reflective in nature; explores concepts and models in democracy in the context of government in Scotland; is strongly collaborative, delivered by a teaching team utilising the research strengths of the Department and augmented by visiting external speakers.

*Course Co-ordinator:* Dr Kevin Francis

### 205F POLITICS 3H (JOINT)

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be confirmed.

*Requirements of entry:* Grade C in Politics 2A and Politics 2B.

*Assessment:* 4 Papers to be taken over two years (3H and 4H). Some Papers by 100% examination ONLY. The remainder: usually 75% Final Examination AND 25% Coursework.

*Degree Examination taken in:* May/June

*Aims:* See Politics 3H (Single)

*Honours Course Prescription:* To be confirmed.

*Course Co-ordinator:* Dr Paul Graham

### 205H POLITICS 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be confirmed.

*Requirements of entry:* Grade C in Politics 2A and Politics 2B.

*Assessment:* 8 Papers to be taken over two years (3H and 4H). Some Papers by 100% examination ONLY. The remainder: usually 75% Final Examination AND 25% Coursework.

*Degree Examination taken in:* May/June

*Aims:* The course aims to provide a rigorous and wide ranging education in the study of politics in both its empirical or scientific, and its normative or philosophical aspects. The course is designed to include an essential core and a structure which balances the empirical and theoretical aspects of the discipline. The course equally aims to allow students a wide choice of options offering different approaches to their subject area and a variety of teaching methods. The diversity of options available allows students to benefit both from the specialised knowledge of staff in areas where they have made a particular research contribution, and from teaching methods which are tailored to the particular aims and objectives of the options studied.

*Honours Course Prescription:* Politics General Paper, Dissertation and 6 courses from the annual list of options.

*Course Co-ordinator:* Dr Paul Graham

### 205G POLITICS 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be confirmed.

*Requirements of entry:* Grade C in Politics 2A and Politics 2B.

*Assessment:* 4 Papers to be taken over two years (3H and 4H). Some Papers by 100% examination ONLY. The remainder: usually 75% Final Examination AND 25% Coursework.

*Degree Examination taken in:* May/June

*Aims:* See Politics 4H (Single)

*Honours Course Prescription:* To be confirmed.

*Course Co-ordinator:* Dr Paul Graham

### 205J POLITICS 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be confirmed.

*Requirements of entry:* Grade C in Politics 2A and Politics 2B.

*Assessment:* 8 Papers to be taken over two years (3H and 4H). Some Papers by 100% examination ONLY. The remainder: usually 75% Final Examination AND 25% Coursework.

*Degree Examination taken in:* May/June

*Aims:* The course aims to provide a rigorous and wide ranging education in the study of politics in both its empirical or scientific, and its normative or philosophical aspects. The course is designed to include an essential core and a structure which balances the empirical and theoretical aspects of the discipline. The course equally aims to allow students a wide choice of options offering different approaches to their subject area and a variety of teaching methods. The diversity of options available allows students to benefit both from the specialised knowledge of staff in areas where they have made a particular research contribution, and from teaching methods which are tailored to the particular aims and objectives of the options studied.

*Honours Course Prescription:* Politics General Paper, Dissertation and 6 courses from the annual list of options.

*Course Co-ordinator:* Dr Paul Graham

## Psychology

### 8ZTU PSYCHOLOGY 1A: BIOLOGICAL AND EXPERIMENTAL

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures weekly Monday, Tuesday, Wednesday 9 am and 5 pm. Weekly tutorials and laboratories by arrangement.

*Requirements of entry:* Entry to the class is guaranteed to new university entrants who put the UCAS Psychology code on their UCAS form as part of their application to Glasgow University and who firmly accepted an unconditional offer or a confirmed conditional offer of a place to study Psychology either single or joint honours. The Department refers to such students as having an UCAS/Psychology code and as being a Potential Honours Psychology (PHP) student. All other students or returning students may have to enter a ballot for the remaining places up to a class limit of 600.

*Co-requisites:* Psychology 1B is a co-requisite for this course

*Assessment:* 1 essay (25%), 1 laboratory portfolio (25%), 1 degree exam 50%. The degree exam will last 2 hours and is comprised of one essay and 50 multiple choice questions. It will take place at the completion of the course in week 13.

*Degree Examination taken in:* January

*Resit Examination taken in:* May/June

*Aims:* The aim is to introduce students to core material in the area of biological, cognitive and experimental Psychology broadly defined, including exposure to the conduct of experimentation, data gathering and analysis. The course also teaches practical skills involved with experiments employing human participants. Communication skills are also encouraged by means of regular tutorials. Although the lectures, together with Psychology 1B, form part of a programme which leads to an Honours degree with the Graduate Basis of Registration for the BPS, the course is also intended for students who wish to exit after Psychology 1A. It therefore can serve as an introduction to the field for students taking the course as part of the general degree or as an outside subject in another honours programme.

*Course Co-ordinator:* Prof Patrick O'Donnell

### **8ZWU PSYCHOLOGY 1B: SOCIAL, DEVELOPMENTAL AND INDIVIDUAL DIFFERENCES**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures weekly Monday, Tuesday, Wednesday 9 am and 5 pm. Weekly tutorials and laboratories by arrangement.

*Requirements of entry:* At least a pass in Psychology 1A. Entry to the class is guaranteed to new university entrants who put the UCAS Psychology code on their UCAS form as part of their application to Glasgow University and who firmly accepted an unconditional offer or a confirmed conditional offer of a place to study Psychology either single or joint honours. The Department refers to such students as having an UCAS/Psychology code and as being a Potential Honours Psychology (PHP) student. All other students or returning students may have to enter a ballot for the remaining places up to a class limit of 600.

*Co-requisites:* Normally Psychology 1A

*Assessment:* 1 essay (25%), 1 laboratory portfolio (25%), 1 degree exam 50%. The degree exam will last 2 hours and is comprised of one essay and 50 multiple choice questions. It will take place at the completion of the course.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim is to introduce students to core material in the area of social and developmental psychology and individual differences. The course also teaches practical skills involved with experiments employing human participants. Communication skills are also encouraged by means of regular tutorials. Although the lectures form part of a programme which eventually lead to an Honours degree with the Graduate Basis of registration for the BPS, together with Psychology 1A, it would also serve as an introduction to the field for students taking the course as part of the general degree or as an outside subject in another honours programme. However the course is restricted to students who have completed Psychology 1A at grade D or above.

*Course Co-ordinator:* Prof Patrick O'Donnell

### **8ZXV PSYCHOLOGY 2A: BIOLOGICAL, COGNITIVE AND EXPERIMENTAL**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures weekly Monday, Tuesday, Wednesday, Thursday 10 a.m. Weekly tutorials and laboratories by arrangement.

*Requirements of entry:* To be guaranteed entry to the class a pass in Psychology 1A and 1B at grade B or above is required. In addition students must be categorised as a Potential Honours Pathway (PHP) student under the normal restriction for Psychology honours entry. This involves having applied through UCAS for a single, principal subject or combined honours degree in Psychology, having received an offer to study Psychology, and having accepted this offer and been admitted to the university for study under this rubric. Other students may have to be chosen by ballot.

*Co-requisites:* Psychology 2B is a co-requisite for this course

*Assessment:* 1 essay (25%), 1 laboratory portfolio (25%), 1 degree exam 50%. The degree exam will last 3 hours and is comprised of four essays. It will take place at the completion of the course in week 13.

*Degree Examination taken in:* January

*Resit Examination taken in:* May/June

*Aims:* The aim is to broaden and, especially, to deepen knowledge of the subject area by building on the foundations laid in Psychology 1A and 1B. The aim is also to develop the student's knowledge of core material in the area of biological, cognitive and experimental psychology broadly defined, including providing exposure to the conduct of experimentation, data gathering and analysis. More detailed aims are to accomplish the following learning objectives. 1. To provide an introduction to the main areas of research in human memory, problem solving and knowledge representation. 2. To show how biological theory and methodology contribute to the study of psychology. By focusing on psychobiological methodology to show how study of underlying biological mechanisms can enrich our understanding of psychological processes such as learning and memory, language and consciousness, and circadian rhythms. 3. To provide a general introduction the methods used in psychological research and to illustrate a wide range of experimental designs. 4. To cover the large spectrum of classical perceptual phenomena, to introduce the main stages of visual processing from the retina to the visual cortex, to compare visual, auditory and haptic perception. The course also teaches practical skills involved with experiments employing human participants. Communication skills are also encouraged by means of regular tutorials. Team work is encouraged by means of a group project. Although the lectures form part of a programme which would lead to an Honours degree with the Graduate Basis of Registration for the BPS, the course is also intended for students who wish to take only Psychology 2A. It would also serve therefore as an extension of knowledge in the field for students taking the course as part of the general degree or as an outside subject in another honours programme.

*Course Co-ordinator:* Dr Richard Dafters



**8ZYV PSYCHOLOGY 2B: SOCIAL, DEVELOPMENTAL, AND APPLIED***Credits:* 20*Level:* 2*When Taught:* Semester 2 (January - June)*Timetable:* Second half of session. Lectures weekly Monday, Tuesday, Wednesday, Thursday 10 a.m. Weekly tutorials and laboratories by arrangement.*Requirements of entry:* To be guaranteed entry to the class, students must have a pass in Psychology 1A and 1B and 2A at grade B or above. In addition students must be categorised as a Potential Honours Pathway (PHP) student under the normal restriction for Psychology honours entry. This involves having applied through UCAS for a single, principal subject or combined honours degree in Psychology, having received an offer to study Psychology, and having accepted this offer and been admitted to the university for study under this rubric. Other students may have to be chosen by ballot.*Co-requisites:* Normally Psychology 2A*Assessment:* 1 essay (25%), 1 laboratory portfolio (25%), 1 degree exam 50%. The degree exam will last 3 hours and is comprised of four essays. It will take place at the completion of the course.*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* The aim is to broaden and, especially, to deepen knowledge of the subject area by building on the foundations laid in Psychology A and 1B. Also the aim is to develop the student's knowledge of core material in the area of social, developmental, individual differences and applied Psychology broadly defined, including exposure to the conduct of experimentation, data gathering and analysis. More detailed learning objectives are: 1. To provide undergraduates with an understanding of the practical contributions psychology can make and some of the psychological research and theories upon which these contributions are made. 2. To provide a review of the developmental changes during the first two years of life and it presents the most relevant research and theories in this field. 3. To provide a coverage of the main areas individual differences including the statistical basis for theory in the field. 4. To provide an overview of current and classic research and theory in four major areas of Social Psychology: Conformity, Persuasion, Aggression and Prejudice. 5. To provide via the laboratory experience both a demonstration of psychological phenomena and instruction in practical skills involved with experiments on human subjects data analysis and report writing skills. The course also teaches practical skills involved with experiments employing human participants. Communication skills are also encouraged by means of regular tutorials. Team work is encouraged by means of a group project. Although the lectures form part of a programme which leads to an Honours degree with the Graduate Basis of Registration for the BPS, the course is also intended for students who wish to take only Psychology 2B. It would also serve therefore as an extension of knowledge in the field for students taking the course as part of the general degree or as an outside subject in another honours programme.*Course Co-ordinator:* Dr Richard Dafters**JRWW PSYCHOLOGICAL STUDIES 3***Credits:* 80*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Semester 1: Tues 1-2, Wed 11-1, Thurs 12-1 Semester 2: Wed 11-2, Thurs 12-1, Fri 12-1 Both semesters, weekly tutorials and occasional project times by arrangement.*Requirements of entry:* At least a pass in Psychology 1A,1B, 2A and 2B. In addition, students must be categorised as a Potential Honours Pathway (PHP) students under the normal restriction for Psychology honours entry. This involves having applied through UCAS for a single, principal subject or combined honours degree in Psychology, having received an offer to study Psychology by the appropriate Faculty, and having accepted this offer and been admitted to the university for study under this rubric.*Assessment:* The end of session exam makes up 50% of the assessment. The dissertation comprises 30%, the four essays and the career skills portfolio comprise a total of 20%. (4% each).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* To provide a sound knowledge and critical understanding and awareness of theory and practice in some of the major areas of psychology. To develop conceptual, analytic and practical skills relevant to pursuing a career within the broad framework of psychology, or in related disciplines. To develop generic (transferable) intellectual and practical skills which are easily adaptable to the needs of the labour market, particularly those relating to communication, presentation, quantitative methods, and to good teamwork in problem-solving environments. To provide an environment for the development of initiative, self-reliance, and critical ability from a solid foundation of knowledge, understanding and critical awareness.*Course Co-ordinator:* Dr Paul Bishop**SULW PSYCHOLOGICAL STUDIES 3***Credits:* 80*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Semester 1: Tues 1-2, Wed 11-1, Thurs 12-1 Semester 2: Wed 11-2, Thurs 12-1, Fri 12-1 Both semesters. Tutorials and projects are by arrangement*Requirements of entry:* At least a pass in Psychology 2A and 2B. In addition, students must be categorised as a Potential Honours Pathway (PHP) Science Faculty student under the normal restriction for Psychology honours entry. This involves having applied through UCAS for a single, principal subject or combined honours degree in Psychology, having received an offer to study Psychology by the Faculty of Science, and having accepted this offer and been admitted to the university for study under this rubric.*Assessment:* The end of session exam makes up 50% of the assessment. The dissertation comprises 30%, the four essays and the career skills portfolio comprise a total of 20%. (4% each).*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are as follows: 1. To provide a sound knowledge and critical understanding and awareness of theory and practice in some of the major areas of psychology. 2. To develop conceptual, analytic and practical skills relevant to pursuing a career within the broad framework of psychology, or in related disciplines. 3. To develop generic (transferable) intellectual and practical skills which are easily adaptable to the needs of the labour market, particularly those relating to communication, presentation, quantitative methods, and to good teamwork in problem-solving environments. 4. To provide an environment for the development of initiative, self-reliance, and critical ability from a solid foundation of knowledge, understanding and critical awareness.

*Course Co-ordinator:* Dr Paul Bishop

### **206F PSYCHOLOGY 3H (COMBINED)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Timetable in Psychology involves lectures at Mondays 1-2, Tuesdays 1-2, Wednesdays 11-1p.m., Thursdays 12-1 and Fridays 12-1 Labs and projects are by arrangement. For the timetable requirements of the other department in the combination see their relevant entry.

*Requirements of entry:* For prerequisites for Psychology see the prerequisites for Single Honours. For the requirements of the other department in the combination see their relevant entry.

*Assessment:* For the Psychology component (50% of total): Two 3-hour degree examinations (25% each)

*Degree Examination taken in:* May/June

*Aims:* To provide a Joint Honours degree in Psychology, which satisfies the British Psychological Society's requirements for recognition of the course as supporting Graduate membership for the student, by ensuring coverage of material specified by that accreditation body. Within this overall aim: to provide a sound knowledge and critical understanding and awareness of theory and practice in the major areas of psychology; to develop specialist conceptual, analytic and practical skills relevant to pursuing a career in professional or academic psychology, or in related disciplines; to develop generic (transferable) intellectual and practical skills which are easily adaptable to the needs of the labour market, particularly those relating to communication, presentation, quantitative methods, and to good teamwork in problem-solving environments; to provide an environment for the development of initiative, self-reliance, and critical ability from a solid foundation of knowledge, understanding and critical awareness; to develop enquiring, problem-oriented minds with sufficient awareness of the critical research and applications issues in psychology to enable successful pursuit of postgraduate work in psychology and related disciplines.

*Honours Course Prescription:* Subjects will be taken over two years, with exams probably in May/June of year 1 and May/June of year 2 as specified for the papers in Single Honours. The subjects (courses) to be

taken are: Year 1: Cognitive + Comparative Learning & Cognition + Statistics and Human Development + Individual Differences + Social Psychology Year 2: Physiological Psychology + Perception + Professional Skills and the Level 4H Maxi Project. For the requirements of the other department in the combination see their relevant entry.

*Course Co-ordinator:* Dr Ian Bushnell

### **206H PSYCHOLOGY 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Psychology 3H Monday and Tuesday at 1.00 pm; Wednesday at 11.00 am; Thursday and Friday at 12.00 noon. All weekly laboratories by arrangement.

*Requirements of entry:* At least a B pass in Psychology 1A and 1B, and 2A and 2B, and at least a pass in Statistics 1C or equivalent. Students must also be categorised as a Potential Honours student (PHP) under the normal restriction for Psychology honours entry. This involves having applied through UCAS for a single, principal subject or combined honours degree in Psychology, having received an offer to study Psychology, and having accepted this offer and been admitted to the university for study under this rubric.

*Assessment:* Two part finals. Three papers taken in 3H year 37.5% (12.5% each); three papers taken in June of 4H year 37.5% (12.5% each); practical taken in 4H year, along with critical review and mini project marks (12.5%), maxi project taken in 4H year (12.5%) and possible oral.

*Degree Examination taken in:* May/June

*Aims:* The main aims of the course are: 1. To provide a sound knowledge and critical understanding and awareness of theory and practice in the major areas of Psychology. 2. To develop specialist conceptual, analytic and practical skills relevant to pursuing a career in professional or academic Psychology, or in related disciplines. 3. To develop generic (transferable) intellectual and practical skills which are easily adaptable to the needs of the labour market, particularly those relating to communication, presentation, quantitative methods, and to good teamwork in problem-solving environment. 4. To provide an environment for the development of initiative, self-reliance, and critical ability from a solid foundation of knowledge, understanding and critical awareness 5. To develop enquiring, problem-oriented minds with sufficient awareness of the critical research and applications issues in Psychology to enable successful pursuit of postgraduate work in Psychology and related disciplines 6. To ensure coverage of material to satisfy the requirements of the accreditation body, the British Psychological Society for recognition of the course as supporting Graduate Basis for Registration for the student.

*Honours Course Prescription:* 3H year: Cognitive Psychology; Comparative Learning and Cognition; Human Development; Perception; Personality; Physiological Psychology; Professional Skills; Social Psychology; Statistics. 2 Mini-projects, 2 Critical reviews

*Course Co-ordinator:* Dr Ian Bushnell

**JRWV PSYCHOLOGY LEVEL 3***Credits:* 80*Level:* 3*When Taught:* Full Session (September - June)*Timetable:* Semester 1: Tues 1-2, Wed 11-1, Thurs 12-1 Semester 2: Wed 11-2, Thurs 12-1, Fri 12-1 Both semesters. Weekly tutorials and project times by arrangement.*Requirements of entry:* At least a pass in Psychology 1A,1B, 2A and 2B. In addition, students must be categorised as a Potential Honours Pathway (PHP) students under the normal restriction for Psychology honours entry. This involves having applied through UCAS for a single, principal subject or combined honours degree in Psychology, having received an offer to study Psychology by the appropriate Faculty, and having accepted this offer and been admitted to the university for study under this rubric.*Assessment:* The end of session exam makes up 50% of the assessment. The dissertation comprises 30%, the four essays and the career skills portfolio comprise a total of 20%. (4% each).*Degree Examination taken in:* May/June*Resit Examination taken in:* August/September*Aims:* The main aims of the course are: 1. To provide a sound knowledge and critical understanding and awareness of theory and practice in some of the major areas of psychology. 2. To develop conceptual, analytic and practical skills relevant to pursuing a career within the broad framework of psychology, or in related disciplines. 3. To develop generic (transferable) intellectual and practical skills which are easily adaptable to the needs of the labour market, particularly those relating to communication, presentation, quantitative methods, and to good teamwork in problem-solving environments. 4. To provide an environment for the development of initiative, self-reliance, and critical ability from a solid foundation of knowledge, understanding and critical awareness.*Course Co-ordinator:* Dr Paul Bishop**206J PSYCHOLOGY 4H (SINGLE)***Credits:* 120*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* The times of the option classes are variable and an up to date timetable is given in the class handbook*Requirements of entry:* At least a B pass in Psychology 1A and 1B, and 2A and 2B, and at least a pass in Statistics 1C or equivalent. Students must also be categorised as a Potential Honours student (PHP) under the normal restriction for Psychology honours entry. This involves having applied through UCAS for a single, principal subject or combined honours degree in Psychology, having received an offer to study Psychology, and having accepted this offer and been admitted to the university for study under this rubric.*Assessment:* Two part finals. Three papers taken in 3H year 37.5% (12.5% each); three papers taken in June of 4H year 37.5% (12.5% each); practical taken in 4H year

along with review and project marks 25%, maxi-project taken in 4H year 12.5% and possible oral.

*Degree Examination taken in:* May/June*Aims:* 1. To provide a sound knowledge and critical understanding and awareness of theory and practice in the major areas of Psychology 2. To develop specialist conceptual, analytic and practical skills relevant to pursuing a career in professional or academic Psychology, or in related disciplines 3. To develop generic (transferable) intellectual and practical skills which are easily adaptable to the needs of the labour market, particularly those relating to communication, presentation, quantitative methods, and to good teamwork in problem-solving environment 4. To provide an environment for the development of initiative, self-reliance, and critical ability from a solid foundation of knowledge, understanding and critical awareness 5. To develop enquiring, problem-oriented minds with sufficient awareness of the critical research and applications issues in Psychology to enable successful pursuit of post-graduate work in Psychology and related disciplines 6. To ensure coverage of material to satisfy the requirements of the accreditation body, the British Psychological Society for recognition of the course as supporting Graduate Basis for Registration for the student. 7. To engage the student with recent research in a range of option areas which largely reflect the research interests of the staff particularly in areas of perception, psycholinguistics, cognitive neuro-psychology, alcohol information processing, abnormal psychology, social cognition and therapeutic applications of psychology. 8. To develop the student's research skills via the conduct of an independent research project.*Honours Course Prescription:* Six options to be chosen from the present list: Abnormal Psychology, Alcohol Information Processing, Applying Psychology to Education and Computers, Applying Psychology, Biological Basis of Cognition and its Disorders, Cognitive Neuroscience of Attention and Executive Control, Cognitive Neuroscience of Perception, Perception and Visual Cognition 1, Perception and Visual Cognition 2, Psychology of Reading and Understanding, Social Cognition, Therapeutic Applications of Psychology. In addition students will complete a critical review and maxi project.*Course Co-ordinator:* Prof Patrick O'Donnell**206G PSYCHOLOGY 4H COMBINED***Credits:* 60*Level:* 4*When Taught:* Full Session (September - June)*Timetable:* Timetable in Psychology involves lectures at Mondays 1-2, Wednesdays 11-12, and Fridays 12-1. Project is by arrangement. For the timetable requirements of the other department in the combination see their relevant entry.*Requirements of entry:* For prerequisites for Psychology see the prerequisites for Single Honours. For the requirements of the other department in the combination see their relevant entry.*Assessment:* For the Psychology component (50% of total): One 3-hour degree examination paper (25%); maxi-project (25%). The degree paper is based on three Level-3 modules taken in the students fourth year.

*Degree Examination taken in:* May/June

*Aims:* To provide a Joint Honours degree in Psychology, which satisfies the British Psychological Society's requirements for recognition of the course as supporting Graduate membership for the student, by ensuring coverage of material specified by that accreditation body. Within this overall aim: to provide a sound knowledge and critical understanding and awareness of theory and practice in the major areas of psychology; to develop specialist conceptual, analytic and practical skills relevant to pursuing a career in professional or academic psychology, or in related disciplines; to develop generic (transferable) intellectual and practical skills which are easily adaptable to the needs of the labour market, particularly those relating to communication, presentation, quantitative methods, and to good teamwork in problem-solving environments; to provide an environment for the development of initiative, self-reliance, and critical ability from a solid foundation of knowledge, understanding and critical awareness; to develop enquiring, problem-oriented minds with sufficient awareness of the critical research and applications issues in psychology to enable successful pursuit of postgraduate work in psychology and related disciplines.

*Honours Course Prescription:* Courses will be taken over two years, with exams probably in May/June of year 1 and May/June of year 2 as specified for the papers in Single Honours. The courses to be taken are: Year 1: Cognitive + Comparative Learning & Cognition + Statistics and Human Development + Individual Differences + Social Psychology Year 2: Physiological Psychology + Perception + Professional Skills and the Level 4H Maxi Project. For the requirements of the other department in the combination see their relevant entry.

*Course Co-ordinator:* Prof Patrick O'Donnell

## Public Policy (taught within the Department of Urban Studies)

### 9AAU PUBLIC POLICY 1

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Tuesday, Wednesday, Thursday - 10.00 am-11.00 am; tutorials to be arranged Tuesday to Thursday weekly during Semesters 1 and 2.

*Requirements of entry:* The course is open to all undergraduates of the University.

*Assessment:* Two 2000 word essays (40%) and one 3-hour examination (60%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Level 1 is an introductory course that will provide an opportunity to study the ideas, processes and developments in public policy in the U.K. Reasons for welfare provision, who provides it and how it is evaluated will be examined. The course comprises two parts and covers a variety of both contemporary and 'traditional' issues. These areas include ideology, social exclusion, criminal justice, health, housing, social security, disability, gender and environmental matters. Concluding the course

is a study of the spatial concentration of social issues, for example, in 'problem' estates. The overall aims are to: (1) provide a general introduction to Public Policy, involving both descriptive and analytical discourse in relation to welfare provision and contemporary issues in the U.K. and (2) provide students with the opportunity to develop transferable skills.

*Course Co-ordinator:* Ms Marsha Wilson

### 9ATV PUBLIC POLICY 2

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Tuesday, Wednesday, Thursday - 12.00 noon-1.00 pm. Tutorials will be weekly in the first and second terms with three in the third term (17 in total)

*Requirements of entry:* Attainment of Grade D in Level 1 Public Policy will be the usual requirement of entry to this course.

*Assessment:* Two 2500 word essays(40%) and one 3-hour examination (60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are: (1) present and explain a number of ideological perspectives on the provision of welfare to citizens; (2) to introduce concepts and principles used in deciding the level and methods of delivery of welfare; (3) develop knowledge of the mixed economy of welfare including the roles of different providers. (4) to introduce the economic analysis and financing of the welfare state. (5) to outline several models of the policy process and tools of policy analysis.

*Course Co-ordinator:* Dr Vivian Leacock

### 9RTW PUBLIC POLICY 3: POLITICAL ECONOMY OF WELFARE

*Credits:* 30 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Weekly classes for 20 two hour sessions - time and day unknown.

*Requirements of entry:* 'D' in Public Policy 2

*Assessment:* One report of 3,000 words and one 3-hour examination.

*Degree Examination taken in:* May/June

*Aims:* This course will provide non-honours students with a rich applied public policy course that uses tools and methods derived from a wide body of applied economics and social policy in order to examine the delivery of welfare in the UK.

*Course Co-ordinator:* Prof Kenneth Gibb

### 89HC PUBLIC POLICY 3: SOCIAL RESEARCH AND INVESTIGATION

*Credits:* 30 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* One hour lecture followed by a one hour seminar. Weekly, semesters 1 and 2.

*Requirements of entry:* Grade D in Social Policy 2.

*Assessment:* Assessment for this option is by means of two written assignments. For non-honours students the first assignment will comprise a research proposal based on materials and a topic selected by the course convenor (for example, disability and homeownership or social exclusion and unemployment). The second assignment will consist of a critical appreciation of a brief research report selected by the course convenor.

*Degree Examination taken in:* May/June

*Aims:* The course aims to: - introduce students to the range of research methods and approaches used in the investigation of social policy issues; - provide guidance in the use of transferable research skills.

*Course Co-ordinator:* Mr Jonathan Pickering

### **ORGF PUBLIC POLICY 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Times variable. Teaching by means of lectures, tutorials and project work.

*Requirements of entry:* For entry to joint honours the award of grade D or better in Public Policy Levels 1 and 2 will be required. Students should have obtained four Level 1 and two Level 2 awards at grade D or above, of which four, including one Level 2, should be Social Sciences Group A subjects. Students not meeting the requirement for automatic entry may be granted admission if the Departments consider that their previous performance offers a reasonable prospect of their reaching the standard requirement in honours.

In exceptional circumstances students may be admitted to honours with a credit at Level 1. To be considered they will require an aggregate mark of at least Grade B. Students admitted from Level 1 will also have to complete the work of the Level 2 class (including all course work) in their junior honours year but will not be required to sit or pass the degree examination. They must also satisfy Faculty requirements in terms of the pre-honours curriculum.

*Assessment:* Assessment for each option is by means of one 3 hour examination (60%) and two 3000-3500 word essays (40%).

*Degree Examination taken in:* May/June

*Aims:* The general aims of the Department's honours teaching are: 1) to build upon the general introduction to Public Policy provided in the First and Second level classes by providing an in-depth analysis of particular areas, 2) to stimulate students' awareness of the theoretical and policy issues which underpin public policy; 3) to develop a range of transferable skills, particularly in relation to communication (written and oral) and the collection and analysis of information.

*Honours Course Prescription:* Honours options vary from year to year but are drawn from the list below: Criminal Justice; Disability and Society; Health Policy & Health Services; Housing Policy; Ideologies, Values & Social Policy; Paying for Welfare: the Political Economy of the Welfare State; Research Methods; Social Security Policy; Urban Policy; Community Development and the Voluntary Sector; Values In Action; Policy Analysis; Dissertation.

*Course Co-ordinator:* Dr Charlotte Pearson

### **KWZK PUBLIC POLICY 3H (PRINCIPAL)**

*Credits:* 90

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Two hourly teaching sessions are held on a weekly basis at times determined by individual course convenors.

*Requirements of entry:* For entry to single honours the award of grade D or above in Public Policy Levels 1 and 2 will be required. Students should have obtained four Level 1 and two Level 2 awards at Grade D or above, of which four, including one Level 2, should be Social Sciences Group A subjects. Students not meeting the requirement for automatic entry may be granted admission if the Department considers that their previous performance offers a reasonable prospect of their reaching the standard requirement in honours. In exceptional circumstances students may be admitted to honours with a credit at Level 1. To be considered they will require an aggregate mark of at least Grade B. Students admitted from Level 1 will also have to complete the work of the Level 2 class (including all course work) in their junior honours year but will not be required to sit or pass the degree examination. They must also satisfy Faculty requirements in terms of the pre-honours curriculum.

*Assessment:* Summative assessment for each honours course is: a 3 hour unseen examination (60%) and two assignments of 3000-3500 words (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims to: build upon the general introduction to Public Policy provided in Levels 1 and 2 by providing an in-depth analysis of particular areas; to stimulate student's awareness of the theoretical and policy issues which underpin public policy; to develop a range of transferable skills, particularly in relation to communication (written and oral), and the collection and analysis of information.

*Honours Course Prescription:* Policy Analysis, Social Research and Investigation and a Dissertation must be taken. Five other courses from the list below must be taken: Criminal Justice; Disability & Society; Health Policy & Health Services; Housing Policy; Ideologies, Values & Social Policy; Paying for Welfare: The Political Economy of the Welfare State; Urban Policy; Community Development and the Voluntary Sector; Values in Action.

*Course Co-ordinator:* Dr Charlotte Pearson

### **OREH PUBLIC POLICY 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Two hourly teaching sessions are held on a weekly basis at times determined by individual course convenors.

*Requirements of entry:* For entry to single honours the award of grade D or above in Public Policy Levels 1

and 2 will be required. Students should have obtained four Level 1 and two Level 2 awards at Grade D or above, of which four, including one Level 2, should be Social Sciences Group A subjects. Students not meeting the requirement for automatic entry may be granted admission if the Department considers that their previous performance offers a reasonable prospect of their reaching the standard requirement in honours. In exceptional circumstances students may be admitted to honours with a credit at Level 1. To be considered they will require an aggregate mark of at least Grade B. Students admitted from Level 1 will also have to complete the work of the Level 2 class (including all course work) in their junior honours year but will not be required to sit or pass the degree examination. They must also satisfy Faculty requirements in terms of the pre-honours curriculum.

*Assessment:* Summative assessment for each honours course is: a 3 hour unseen examination (60%) and two assignments of 3000-3500 words (40%)

*Degree Examination taken in:* May/June

*Aims:* The course aims to: build upon the general introduction to Public Policy provided in Levels 1 and 2 by providing an in-depth analysis of particular areas; to stimulate student's awareness of the theoretical and policy issues which underpin public policy; to develop a range of transferable skills, particularly in relation to communication (written and oral), and the collection and analysis of information.

*Honours Course Prescription:* Policy Analysis, Social Research and Investigation and a Dissertation must be taken. Five other courses from the list below must be taken: Criminal Justice; Disability & Society; Health Policy & Health Services; Housing Policy; Ideologies, Values & Social Policy; Paying for Welfare: The Political Economy of the Welfare State; Urban Policy; Community Development and the Voluntary Sector; Values in Action.

*Course Co-ordinator:* Dr Charlotte Pearson

### **KXAK PUBLIC POLICY 4H (PRINCIPAL)**

*Credits:* 90

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Two hourly teaching sessions are held on a weekly basis at times determined by individual course convenors.

*Requirements of entry:* For entry to single honours the award of grade D or above in Public Policy Levels 1 and 2 will be required. Faculty requirements will also need to be completed.

*Assessment:* Summative assessment for each honours course is: a 3 hour unseen examination (60%) and two assignments of 3000-3500 words (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims to: build upon the general introduction to Public Policy provided in Levels 1 and 2 by providing an in-depth analysis of particular areas; to stimulate student's awareness of the theoretical and policy issues which underpin public policy; to develop

a range of transferable skills, particularly in relation to communication (written and oral), and the collection and analysis of information.

*Honours Course Prescription:* Policy Analysis, Social Research and Investigation and a Dissertation must be taken. Five other courses from the list below must be taken: Criminal Justice; Disability & Society; Health Policy & Health Services; Housing Policy; Ideologies, Values & Social Policy; Paying for Welfare: The Political Economy of the Welfare State; Urban Policy; Community Development and the Voluntary Sector; Values in Action.

*Course Co-ordinator:* Dr Charlotte Pearson

### **ORHG PUBLIC POLICY 4H (JOINT)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Times variable. Teaching by means of lectures, tutorials and project work.

*Requirements of entry:* For entry to honours the award of grade D or better in Public Policy Levels 1 and 2 will be required. Faculty requirements will also need to be met. Students should have obtained four Level 1 and two Level 2 awards at grade D or above, of which four, including one Level 2, should be Social Sciences Group A subjects. Entry to honours will be guaranteed for students who obtain a pass at Bands A, B or C (i.e. 55% or over) at Public Policy Level 2. Students not meeting the requirement for automatic entry may be granted admission if the Departments consider that their previous performance offers a reasonable prospect of their reaching the standard requirement in honours.

*Assessment:* Assessment for each option is by means of one 3 hour examination (60%) and two 3000-3500 word essays (40%). There is a compulsory dissertation for Single Honours students (7,500-10,000 words) which counts as an option.

*Degree Examination taken in:* May/June

*Aims:* The general aims of the Department's honours teaching are: 1) to build upon the general introduction to Public Policy provided in the First and Second level classes by providing an in-depth analysis of particular areas, 2) to stimulate students' awareness of the theoretical and policy issues which underpin public policy; 3) to develop a range of transferable skills, particularly in relation to communication (written and oral) and the collection and analysis of information.

*Honours Course Prescription:* Honours options vary from year to year but are drawn from the list below: Criminal Justice; Disability and Society; Health Policy & Health Services; Housing Policy; Ideologies, Values & Social Policy; Paying for Welfare: The Political Economy of the Welfare State; Social Research and Investigation; Social Security Policy; Urban Policy; Community Development and the Voluntary Sector; Values in Action, Policy Analysis; Dissertation.

*Course Co-ordinator:* Dr Charlotte Pearson

### **ORFJ PUBLIC POLICY 4H (SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Two hourly teaching sessions are held on a weekly basis at times determined by individual course convenors.

*Requirements of entry:* For entry to single honours the award of grade D or above in Public Policy Levels 1 and 2 will be required. Faculty requirements will also need to be completed.

*Assessment:* Summative assessment for each honours course is: a 3 hour unseen examination (60%) and two assignments of 3000-3500 words (40%)

*Degree Examination taken in:* May/June

*Aims:* The course aims to: build upon the general introduction to Public Policy provided in Levels 1 and 2 by providing an in-depth analysis of particular areas; to stimulate student's awareness of the theoretical and policy issues which underpin public policy; to develop a range of transferable skills, particularly in relation to communication (written and oral), and the collection and analysis of information.

*Honours Course Prescription:* Policy Analysis, Social Research and Investigation and a Dissertation must be taken. Five other courses from the list below must be taken: Criminal Justice; Disability & Society; Health Policy & Health Services; Housing Policy; Ideologies, Values & Social Policy; Paying for Welfare: The Political Economy of the Welfare State; Urban Policy; Community Development and the Voluntary Sector; Values in Action.

*Course Co-ordinator:* Dr Charlotte Pearson

## School of Law

### 9NSU BUSINESS LAW 1

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures Monday, Tuesday and Thursday at 11am. Four tutorials.

*Requirements of entry:* None.

*Co-requisites:* None

*Excluded Courses:* Principles of Private Law

*Assessment:* Essay (25%); examination (75%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to the main sources of law in Scotland; To provide a firm grounding in the structure and content of the law of obligations and to provide an overview of the law of intellectual property and data protection; To explain and illustrate, through a programme of lectures, tutorials and directed reading, the basic principles and concepts of the law in these areas; To examine the law in these areas in sufficient detail to meet the requirements for BAcc professional exemption; To enhance students' problem-solving skills through the identification of legal issues in complex problems, the application of relevant legal rules, and achievement of resolutions to the problems set; To offer guidance in the framing and presentation of written legal argument; To highlight areas where the principles are subject to

doubt or disagreement, and to encourage independent thought.

*Course Co-ordinator:* Dr Andrew Godfrey

### 8RNU CRIMINAL LAW AND EVIDENCE 1

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* One hour lectures Tuesday and Thursday at 1000. Five one hour fortnightly tutorials

*Requirements of entry:* This course is only open to students on the LLB and BAL degrees

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Essay (20%); examination (80%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are: To outline the principles of the criminal law and the law of evidence; To outline the basic rules of the substantive criminal law; To allow the student to begin to develop an understanding of the interaction between rules of law and evidence in the proof of particular crimes; To develop a basic understanding of the context of the application of the rules of the criminal law.

*Course Co-ordinator:* Prof Lindsay Farmer

### 9KWU FORENSIC MEDICINE 1

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Wednesday, Thursday - 11.00 am.

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Assignment comprising one essay (25% of final assessment). Degree Examination comprising multiple choice and essay paper (75% of final assessment).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* (1) To provide an introduction to forensic medicine and forensic science. Aspects of the law which particularly relate to legal proceedings involving these subjects are also included. (2) To introduce students with little or no previous experience of biology to the basics of human anatomy and physiology, dealing with the major body systems such as the heart and circulatory system and the reproductive system. (3) To review the main categories of injury and sudden, traumatic and non-accidental death, their causes and how they are investigated by the forensic pathologist and scientist. The work of the police surgeon and clinical forensic medical expert, for example, in cases of sexual assault are also covered. (4) To review legal aspects of medical practice such as deaths under medical care, certification of death and release of organs for transplantation. The role of the General Medical Council and problems of medical ethics are also covered. (5) To introduce the non-specialist to basic ideas of forensic science, forensic

toxicology, forensic serology and haemogenetics (DNA analysis) and forensic psychiatry. (6) To show how this information is interpreted and presented in court.

*Course Co-ordinator:* Dr Robert Anderson

## **8QJU PRINCIPLES OF PRIVATE LAW**

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* 1 hour lectures Monday, Wednesday and Friday at 0900. Fortnightly tutorials.

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* Business Law

*Assessment:* Course assessment is as outlined in the course documentation. Degree Examinations taken in: Semester 1 diet (Contract) and Semester 3 diet (Delict/Child and Family Law)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a firm grounding in the structure and content of the law of obligations, family law and property law; To explain and illustrate, through a programme of lectures and tutorials, the basic principles and concepts of Scots law in these areas; To examine the law of obligations and family law in sufficient detail to meet the requirements for professional exemption; To suggest a classification of property law, family law and the law of obligations, in the latter area particularly through analysing the separate branches of contract, delict and unjustified enrichment; To enhance students' problem-solving skills through the identification of legal issues in complex problems, the application of relevant legal rules, and achievement of resolutions to the problems set; To offer guidance in the framing and presentation of written and oral legal argument; To highlight areas where the principles are subject to doubt or disagreement, and to encourage independent thought; To assist students in the development of research methods and enhance their familiarity with different sources of law; To encourage critical analysis, and enhance essay-writing skills.

*Course Co-ordinator:* Dr Janeen Carruthers

## **8RIU PUBLIC INTERNATIONAL LAW**

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Three one hour lectures per week - Monday, Tuesday and Thursday at 1000 Tutorials: 4 x one hour

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Assessed Essay (20%) 600 - 800 words Degree Exam: 3 x hour exam (80%); 3 out of 6 questions

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The principal aim of this course is to provide an introductory overview of public international law, showing what international law is, what its principal divi-

sions are, how it works and what its strengths and weaknesses are. It also aims to provide an understanding of the nature and sources of international law, introduce the elements of the main subject areas of international law, contemporary developments in the subject, and the principal areas of international conflict and the main actors on the international stage; and to foster an appreciation of the role played by international law in the settlement of international disputes. Finally, the course also aims to develop your critical reading and international law problem solving skills; to develop your basic communication skills through participation in tutorial debates; to introduce you to basic international legal research and IT skills using the Internet; and to familiarise you with the professional role and career choices of the international lawyer.

*Course Co-ordinator:* Mr Akbar Rasulov

## **8RCU ROMAN LAW OF PROPERTY & OBLIGATIONS 1**

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday and Tuesday in Semester 2 at 3.00 pm; Tutorials: 5 x one hour, Semester 2.

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None.

*Assessment:* Essay (25%), Examination (75%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are to provide an understanding of the main features of Roman law in the areas of property, contracts and delict and to appreciate the significance of Roman law as the basis for civilian legal systems. The aims of the course are to use the study of elementary Roman law to enable you to understand legal relationships; appreciate the roots of Scots and civilian legal systems; and enjoy knowing something of another culture.

*Course Co-ordinator:* Prof E Metzger

## **8RBV SOURCES AND INSTITUTIONS OF SCOTS LAW**

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Weekly two hour tutorials over Semesters One and Two Ten lectures in Semesters One and Two.

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* There will be three summative assessments: (1) A group exercise requiring analysis of a complex legal problem (3000 words) (25%) (2) An exercise designed to test grasp of legal method requiring analysis of cases and of statutory materials (2000 words) (25%) (3) A three hour end of course examination comprising a mixture of problem and essay questions (50%). Apart from the examination, these assessments will



also perform a formative and diagnostic function, as will tutorial exercises. In addition, however, there will be three purely formative methods of assessment: (1) Self-assessment of oral presentations and group tutorial exercises; (2) A computer-based assessment of factual knowledge of the legal system; (3) A 1000 word discursive essay based on the oral presentation. Candidates whose average mark for the four summative assessments is a grade D or better, and who have no element marked at grade G or below, will pass the course. Candidates whose average mark is a grade D or better, but who have one or more elements marked at grade G or below, will fail the course. They will be required to resit the elements marked at G or below and will pass the course if they achieve at least a grade F in those elements at the second attempt. Candidates whose average mark is lower than a grade D will fail the course. They will, however, only be required to resit the individual elements in which they have received a fail grade and will pass the course if their average mark for the four assessments after the resit diet is a grade D or better and they have no element marked below a grade F.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to, and enable them to understand, the nature of law, of legal systems and of the Scottish legal system in the contemporary world context; To enable students to acquire a foundational knowledge and understanding of the sources of Scots law and the institutions of government from the local government level to that of the European Union; To enable students to research primary and secondary legal sources and to present arguments based on them; To encourage students to work effectively both individually and in groups.

*Course Co-ordinator:* Dr Gavin Anderson

## **KZKV BUSINESS ORGANISATIONS**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 two hour lectures per week - times to be arranged.

*Requirements of entry:* Normally credit in Principles of Private Law

*Co-requisites:* None

*Excluded Courses:* Business Law Commercial Law for Business Commercial Law (20 Credit course)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of the course is to enable students to acquire an understanding of the legal framework for business organisations and corporation tax. The course is structured so as to meet the relevant professional requirements of the Law Society of Scotland.

*Course Co-ordinator:* Prof Iain MacNeil

## **KZJV COMMERCIAL LAW**

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Two one hour lectures per week - times to be arranged

*Requirements of entry:* Normally credit in Principles of Private Law

*Excluded Courses:* Business Law Commercial Law for Business Commercial Law (20 Credit Course)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course will: - Introduce students to modern substantive Commercial Law. - Reveal how underlying socio-political and economic factors, as well as wider business culture shape the development of Commercial Law in relation to discrete areas such as the Sale of Goods, Insurance, Consumer Credit and Personal Insolvency, etc. - Satisfy the requirements of the Law Society of Scotland and the Faculty of Advocates. - Encourage in students an interest and critical awareness in the development of UK and international Commercial Law.

*Course Co-ordinator:* Mr Martin Doris

## **9NTV COMMERCIAL LAW FOR BUSINESS**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 1 hour Lectures Tuesday at 1400; Thursday at 1200 and Friday at 1200. Five tutorials.

*Requirements of entry:* Attendance in Business Law 1 is normally required, except, in particular, for visiting Law students.

*Co-requisites:* None

*Excluded Courses:* Commercial Law

*Assessment:* 1500 word Problem essay - 25%, in week 7 of Semester 2 2 hour Final exam - 75%, end of second semester. Format of Degree Exam: Three questions will have to be answered in a paper containing five questions featuring a mixture of problems and essay-type questions.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a firm grounding in the structure and content of the law of partnership, agency, company law and trusts and to provide an overview of the law governing liquidation, company administration and personal sequestration; To explain and illustrate, through a programme of lectures, tutorials and directed reading, the basic principles and concepts of the law in these areas; To examine the law in these areas in sufficient detail to meet the requirements for BAcc professional exemption; To enhance students' problem-solving skills through the identification of legal issues in complex problems, the application of relevant legal rules, and achievement of resolutions to the problems set; To offer guidance in the framing and presentation of written legal argument; To highlight areas where the principles are subject to doubt or disagreement, and to encourage independent thought; To encourage critical analysis, and enhance essay-writing skills.

*Course Co-ordinator:* Mr Martin Doris

## 9HDV EUROPEAN UNION LAW

*Credits:* 10 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* To be confirmed

*Requirements of entry:* Normally, the award of credit for Sources and Institutions of Scots Law or equivalent courses taken in other institutions

*Co-requisites:* Normally, attendance at Law and Government or equivalent courses taken previously in other institutions.

*Excluded Courses:* None

*Assessment:* There will be one piece of summative assessment; a two hour exam in the summer diet in which students have to answer two questions, one problem and one essay. The essay question will be on the independently researched topic of the free movement of persons.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are as follows: To build on the knowledge and skills communicated in the classes of Sources and Institutions of Scots Law and Law and Government in which the students studied the institutions and judicial system of the European Union; to introduce students to the substantive law of the European Union, namely the internal market, competition law and policy and discrimination law; to fulfil the requirements of the Law Society of Scotland; to encourage interest in and awareness of the continuing process of European integration; to show how underlying socio-political and economic factors shape the development of European Union law; to further develop students transferable skills, in particular problem solving, written communication skills and autonomous learning skills; to encourage independent learning in preparation for the workshops and assessment.

*Course Co-ordinator:* Miss Maria Fletcher

## 0MWV INTERNATIONAL PRIVATE LAW

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday, Thursday and Friday at 1100

*Requirements of entry:* Normally a minimum D pass in Principles of Private Law

*Co-requisites:* None.

*Assessment:* Examination (100%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The knowledge-based aims of the course are: 1. To familiarise students with the nature of International Private Law, and its method and terminology. 2. To enable students to recognise conflict of laws issues in a legal problem. 3. To equip students to produce informed and reasoned arguments using Scots (and, subsidiarily, English) conflict rules, in order to provide viable solutions to conflict problems arising in major areas of private law. 4. To equip students to discuss in essay format topics of importance within the conflict of laws. The knowledge/skills-based aim of the course is: 5. To

introduce students to the subject of law reform in the conflict of laws so that they may be able to evaluate recent and current law reform measures, national, international and EU. The skills-based aims of the course are: 6. To develop student skills of problem-solving and analysis. 7. To develop student skills in handling materials relating to the above areas, including statutory and case law and reading and assessment of Law Commission reports, conventions, EU explanatory memoranda, and other consultation documents. 8. To promote skills of oral discussion of legal problems within the conflict of laws. 9. To develop student skills of written communication and problem solving by means of submission of diagnostic written assignment, and by satisfactory performance in the degree examination.

*Course Co-ordinator:* Prof Elizabeth Crawford

## 8ZKV JURISPRUDENCE

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* 1 hour lectures Monday and Thursday at 1000 in Semester 1

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* 1: 10% oral presentation given in tutorial 2: 10% 750 word written submission to be handed in at the same time as oral presentation 3: 80% 3-hour written examination - 4 questions in January Exam Diet

*Degree Examination taken in:* January

*Aims:* The aim of the course is to enhance students' understanding of law by placing it in its theoretical, philosophical and sociological contexts

*Course Co-ordinator:* Dr Thomas Veitch

## 0LHV LABOUR LAW

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Weekly one hour lectures - Tuesday and Thursday at 1200

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are as follows: - to introduce students to the legal regulation of work relationships; - to identify the main sources of regulation; - to consider the contract of employment; - to consider the principal statutory employment rights.

*Course Co-ordinator:* Dr Jane Mair

## 8ZQV LAW AND GOVERNMENT

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* 1 hour lectures Tuesday and Thursday at 1300 each week in Semester 1

*Requirements of entry:* Normally, obtaining credit in Sources and Institutions of Scots Law.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Assessment one consists of a group research project. You will be asked to form yourselves into groups of (approximately) five students each after the first seminar and these will be the groups in which you will complete the research project. There will be a choice of research projects from which to choose: . Each group will have to negotiate which project to complete. The project is due for submission to the Undergraduate Office in the School of Law on Friday of week 12, semester , but you should note that groups are required to give a presentation on their work in progress at seminar seven (week 10). You should therefore start work on your project early in the semester. For further guidance, please consult the Law School document, Key Skills and the LLB Curriculum. Completed projects must be no more than 3,000 words in length and must be typed. If a group considers that one or more members have not contributed to the work of the group and should not be given credit for the completed project, they should indicate this in writing when they submit their project. However, groups should exercise their best endeavours to resolve problems internally before seeking to expel members. In case of dispute, the course co-ordinator will decide who is to be given credit for the project. Assessment two consists of a two-hour unseen examination, to be held during the semester 1 examination period in January. It consists of two compulsory questions. Question 1 will be a case-noting exercise: you will write a case-note on one of a choice of leading cases. Question 2 will be a problem-solving exercise. Further guidance on the examination will be given in the last one or two lectures.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* to introduce students to the theory and principles of accountable government at all levels - Scottish, United Kingdom and European; to introduce students to judicial techniques for achieving accountable government, in particular, judicial review, the Human Rights Act and official liability; to introduce students to the peculiarities of litigation against the Crown and public authorities; to introduce students to alternative techniques of accountable government; to improve students' written communication skills; to improve students' legal reasoning and problem-solving skills; to improve students' group working and research skills.

*Course Co-ordinator:* Prof Adam Tomkins

## 8ZMV PROPERTY LAW

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* 1 hour lectures Monday at 0900 and Friday at 1000 weeks 1-4 of Semester 1 and weeks 1 and 2 of Semester 2; 1 hour lectures Tuesday and Thursday at 1100 weeks 6-8 of Semester 2

*Requirements of entry:* Normally the award of credit for Principles of Private Law

*Co-requisites:* Normally attendance at Tax Law. Students who do not take the course in Tax Law may experience difficulty with the tax elements of this course

*Excluded Courses:* None

*Assessment:* There will be five summative assessments: An essay on a law reform issue (1,500 words) (10%); A class test in the form of a multiple choice exam based on problem questions (20%); A group essay based on a complex problem (2,500 words). 20 per cent of the mark for this assessment will be derived from a peer assessment of the contribution of the group members in this assessment. (20%); A final two hour examination covering those areas of the course not otherwise assessed. (40%); Assessment of tutorial performance (10%). There will also be a short formative assessment.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the course are: to explain the nature of heritable and moveable property and the legal rules relating to ownership and transfer of such property; to introduce the basic elements of intellectual property protection; to provide students with a knowledge of the concepts underlying leases, the rights and duties of the parties to a lease and assignation and termination of leases; to introduce students to the trust concept and its operation; to explain the nature of testate and intestate succession, testamentary writings, vesting; to explain the tax consequences of property transactions; to take responsibility for effective individual and group discussion and problem solving exercises; to develop research skills; to develop problem solving skills; to assist the acquisition and development of effective groupworking skills; to assist the acquisition and development of organisational and communication skills required to both lead and be a participative member of a task-based group; to satisfy the professional requirements of the Law Society of Scotland and to provide a theoretical basis for Conveyancing practice in the Diploma in Legal Practice.

*Course Co-ordinator:* Mr Thomas Guthrie

## 8ZLV TAX LAW 2

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* 1 hour Lectures on Monday at 1100 and Tuesday at 1600

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* Taxation

*Assessment:* There will be one piece of summative assessment, a 3,000 word research assignment based on a complex multi-tax problem to be completed by each individual student taking the course submission deadline - Week 11 of Semester 1 Resit Research Assignment with an August deadline.

*Aims:* The aims of the course are as follows: to explain the scope of the UK tax jurisdiction; to introduce students to the sources of UK tax law including relevant aspects of European and international tax law; to provide students with a knowledge of the structure of Value

Added Tax, Income Tax, Corporation Tax, Capital Allowances, Capital Gains Tax, Stamp Duty/ Stamp Duty Land Tax and Inheritance Tax; to provide students with a detailed knowledge of key elements of Value Added Tax and Income Tax; to develop research, problem solving and written communication skills; to encourage students to study tax law at a higher academic level.

*Course Co-ordinator:* Mr John Brown

### **87HT ANTI-DISCRIMINATION LAW IN PRACTICE**

*Credits:* 30 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Weekly 2 hour seminars - day and time to be confirmed.

*Requirements of entry:* None

*Aims:* · To introduce students to the principles of British discrimination law · To consider the development of British discrimination law within its European context · To introduce students to the theoretical and contextual background of discrimination law · To develop an awareness of the scope of British discrimination law · To encourage an understanding of the application of discrimination law in practice

*Course Co-ordinator:* Dr Muriel Robison

### **89YR ADVANCED INTERNATIONAL LAW**

*Credits:* 30 *Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly 2 hour lectures - Monday 1500 - 1700

*Requirements of entry:* Achievement of at least a C grade in Public International Law

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* ·Summative:Class essay, 1,500-2,000 words (30%); 3-hour final exam (70%) ·Formative: Feedback will be provided on in class discussion and presentations

*Aims:* ·to provide an in-depth analysis of the character and development of international law; ·to provide a fuller and deeper understanding of the legal factors that govern the operation of international law; ·to examine current developments in the various institutions considered (e.g., the United Nations, the World Trade Organisation, etc.); ·to enhance the students' understanding of the nature and development of international dispute settlement; ·to deepen the students' understanding of various specialised branches of international law (e.g., international law of human rights, international environmental law); ·to enhance the students' overall critical analytical skills; ·to facilitate the general development of group-work, oral communication, written presentation, and information processing skills.

*Course Co-ordinator:* Mr Akbar Rasulov

### **89SX CIVIL JURISDICTION AND EVIDENCE**

*Credits:* 30 *Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Twice weekly 1 hour principally lectures with some seminars/student led presentations - Tuesday 0900-1000 and Thursday 0900-1000

*Requirements of entry:* Normally minimum D pass in Principles of Private Law.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Examination (100%)

*Degree Examination taken in:* May/June

*Aims:* The knowledge-based aims of the course are: (1) To explain the nature and the theory of the subject of International Private Law, its methods and terminology; (2) To enable students to identify conflict of laws issues in a legal problem; (3) To enable students critically to describe problems of the interpretation and ambit of jurisdictional rules, and to present reasoned argument upon complex conflict of laws problems in the area of civil jurisdiction; (4) To enable students to present informed argument upon points of the Scots law of civil evidence; (5) To equip students to apply conflict rules of Scots (and, subsidiarily, English) conflict rules in complex legal problems in the area of civil jurisdiction, so that they may be able to provide accurate, relevant and authoritative answers to problems arising within the subject area; (6) To enable students to provide an informed evaluation of the different methods of allocation of jurisdiction; (7) To enable students to differentiate between issues of substance and procedure, and to be able to advise upon the content and nature of particular pre-trial safeguards and remedies, and to explain the rules governing proof of foreign law and the significance thereof; (8) To equip students to explain the theory and detail of foreign decree enforcement; (9) To enable students to explain the Scots rules of civil evidence, and critically to examine areas of controversy within this field. The knowledge/skills-based aim of the course is: To introduce students to the subject of law reform in the area of civil jurisdiction and evidence, so that they may be able to appreciate recent and proposed law reform measures (national and international), including, in particular, the impact of the creation of the European judicial area; The skills-based aims of the course are: (1) To develop students skills of problem-solving and analysis; (2) To develop student skills in handling materials relating to conflict rules in the area of civil jurisdiction and evidence, including statutory and case interpretation, and reading and assessment of Law Commission reports and other consultation documents; (3) To foster student skills of written communication and problem solving by means of submission of diagnostic written assignment, and satisfactory performance in the degree examination.

*Course Co-ordinator:* Prof Elizabeth Crawford

### **89TG COMMERCIAL BANKING**

*Credits:* 30 *Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly - Thursday 1500 - 1700

*Requirements of entry:* Normally minimum of D in Commercial Law (Level 2)

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Essay (25%); examination (75%).

*Degree Examination taken in:* May/June

*Aims:* To provide a critical understanding of the law of commercial banking (knowledge); To provide students with tools for the critical analysis of problems in the law of commercial banking (skill).

*Course Co-ordinator:* Prof Lorne Crerar

## 89TH COMPARATIVE LAW

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Monday 1300 - 1500 in Semesters 1 and 2

*Requirements of entry:* Normally minimum of D in Jurisprudence (Level 2)

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Essay (25%); examination (75%).

*Degree Examination taken in:* May/June

*Aims:* To examine current issues and methodology of comparative law (and major legal traditions and carry out micro comparisons in a number of fields (knowledge); To provide students with tool for analysing different solutions to similar problems (skill).

*Course Co-ordinator:* Prof Esin Orucu

## 89SW CRIMINAL JUSTICE

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* To be arranged

*Requirements of entry:* Normally Criminal Law and Evidence

*Co-requisites:* None

*Excluded Courses:* None

*Degree Examination taken in:* May/June

*Aims:* 1. To introduce the student to the criminal justice process and policy with particular reference to Scotland. 2. To explore the role of the police and prosecution system in prosecuting crime. 3. To analyse procedures for the trial and sentencing of criminal behaviour. 4. To foster a critical understanding and evaluation of areas of controversy within these areas of criminal process. 5. To carry out independent research on a topic of contemporary relevance

*Course Co-ordinator:* Miss Jennifer Johnstone

## 93BP ENVIRONMENTAL LAW

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Teaching will take the form of 15 weekly sessions containing lectures and class discussions, each lasting 2 hours (c. 30 hours in total). They will be held at 2.00 p.m. on Wednesdays.

*Requirements of entry:* Students will be admitted to this course by GPA performance

*Assessment:* 4000 word essay (40%) and 2 hour final examination (60%)

*Degree Examination taken in:* May/June

*Aims:* The course content includes the legal, political and social background of environmental law; approaches to environmental protection and prevention of pollution; sources of environmental law (international, EU, UK law); regulatory agencies; issues in enforcement of environmental law at EC and national level; the substantive law relating to the protection of certain environmental media, such as, protection of habitat/nature conservation, prevention of water pollution, atmospheric pollution and integrated pollution control; the future of environmental law and sustainable development.

*Course Co-ordinator:* Mr Kenneth Ross

## 0CWV EUROPEAN LEGAL HISTORY 3

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly Seminar or Lecture in Semester One  
Weekly Seminar or Lecture in Semester Two

*Requirements of entry:* Requires the following mandatory courses: Sources and Institutions of Scots Law (8RBU) or Legal Systems Ordinary (9G3B). Visiting students - at the discretion of the course convenor.

*Co-requisites:* None

*Excluded Courses:* European Legal History Module 1  
European Legal History Module 2

*Degree Examination taken in:* May/June

*Aims:* The aims of the course are to: 1. Provide students with a thorough understanding of the historical development of aspects of law and legal institutions within western Europe 2. Provide an overview of the historical sources relevant to the field of European Legal History. 3. Develop the analytical and critical skills of students by detailed examination of particular legal developments. 4. Develop research skills by requiring students to undertake an assessed essay. 5. Develop the oral and presentational skills of students by class discussion and also by requiring each student to make a class presentation based on a prescribed topic of research. 6. Develop the general knowledge of students, particularly their knowledge of Scottish and European history. 7. Deepen appreciation of particular areas of contemporary law by adding a new dimension to existing knowledge of those areas.

*Course Co-ordinator:* Dr John Finlay

## 89TJ HUMAN RIGHTS AND SCOTS LAW

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly 2 hour seminars - Wednesday 1100-1300

*Requirements of entry:* D grades in SISL and Law and Government at the first attempt

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Group essay (25%); group project report (25%); examination (50%).

*Degree Examination taken in:* May/June

*Aims:* This course aims to develop an understanding of the European Convention on Human Rights (including the impact of incorporation on domestic law) and related European human rights instruments and also certain 'transferable' or 'key' skills in students: ie, communication, problem-solving, working with others, improving one's own learning and performance, and IT.

*Course Co-ordinator:* Prof James Murdoch

### **89TD INSTITUTIONS AND JUDICIAL CONTROL OF THE EU**

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly 2 hour seminars - Monday 1100 - 1300

*Requirements of entry:* Normally, a grade C or above in Sources and Institutions of Scots Law and Law and Government. International exchange students will be expected to have previously studied some public law.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Essay (25%); examination (75%).

*Degree Examination taken in:* May/June

*Aims:* Knowledge based: To examine the institutional framework of the EU; To discuss and critique the current debates on the reform of the EU; To introduce students to the debates on good governance in the EU; To enable a deeper understanding of EU law-making; To gain a critical understanding of the role of the European Courts and judicial remedies. Skills based: To enhance research skills in the field of European constitutional law; To encourage students to engage in constructive and analytical discussions on key issues in the seminar; To enable students to write critically about EU institutions and processes; To encourage and enhance learning through group-work in seminars.

*Course Co-ordinator:* Miss Maria Fletcher

### **89KX INTELLECTUAL PROPERTY LAW**

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly two hour seminars - Tuesday 1300-1500

*Assessment:* Assessment consists of a 2,000 word answer to a problem (25%) and a three hour final exam (75%) in which three questions must be answered from ten.

*Degree Examination taken in:* May/June

*Aims:* The principal aim of this course is to promote familiarity and understanding of the law as it relates to the field of Intellectual Property in the United Kingdom and Europe and to situate that understanding within an international context. Further aims are: (i) to develop the analytical and critical skills of students by detailed examination some of the relevant legislation, conventions and cases governing Intellectual Property law; (ii)

to instil in students an ability to constructively criticise current Intellectual Property law and to suggest and evaluate possible reforms; (iii) to give students some knowledge of the practical applications of Intellectual Property law; (iv) to foster an understanding of and ability to evaluate areas of controversy within this area of law.

*Course Co-ordinator:* Mr Thomas Guthrie

### **89TE LEGAL THEORY**

*Credits:* 30

*Level:* H

*When Taught:* Full Session (September - June)

*Timetable:* Weekly 2 hour seminars - Thursday 1300 - 1500

*Requirements of entry:* Normally a C in Jurisprudence

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Essay (40%); examination (60%).

*Degree Examination taken in:* May/June

*Aims:* Provide students with an in-depth understanding of some central problems of legal theory; Strengthen students' analytical skills in dealing with a range of theoretical and practical legal issues; Broaden students' awareness of legal theoretical questions in a historical, contemporary and comparative framework.

*Course Co-ordinator:* Dr Thomas Veitch

## **School of Modern Languages & Cultures**

### **9MJU COMPARATIVE LITERATURE 1A - HEROES (HEROIC MEN)**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday, Wednesday and Thursday at 12.00 p.m.

*Assessment:* One piece of comparative work, normally an essay (weighted at 40%), and one two-hour end of course exam containing a strong comparative element with each question addressing at least two texts (weighted at 60%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course analyses works representing different types of hero: classical, tragic, popular, traditional, comic, anti-heroes and others. It explores the notion of heroism, its absence in our lives and our longing for it as this finds expression in various historical contexts and cultures. It also deals with the notion of masculinity as a cultural and historical construct. The course will encourage students to apply the analytical skills they have gained to a wide range of problems which may confront them in different situations and contexts in later life.

*Course Co-ordinator:* Dr Laura Martin

**9NPU COMPARATIVE LITERATURE 1B  
- HEROES (HEROIC WOMEN)**

*Credits:* 20 *Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Wednesday and Thursday at 12.00 p.m.

*Assessment:* One piece of comparative work, normally an essay (weighted at 40%), and one two-hour end of course exam containing a strong comparative element with each question addressing at least two texts (weighted at 60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course analyses various depictions of "heroic women" in different cultural contexts and historical periods. It explores the notion of female heroism in contrast to male heroism, indicating major differences and similarities. It also deals with women writers' responses to male writers' depictions of female protagonists. The course will encourage students to apply the analytical skills they have gained to a wide range of problems which may confront them in different situations and contexts in later life.

*Course Co-ordinator:* Dr Laura Martin

**9NQV COMPARATIVE LITERATURE 2A  
- FRONTIERS (CROSSING BORDERS)**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday, Wednesday and Thursday at 4.00 p.m.

*Requirements of entry:* At least 20 credits at Grade D or better in one of the following subjects at Level 1: Comparative Literature; a Modern Language Course which includes the study of literature; Classical Civilisation; English Literature; Scottish Literature; Slavonic Studies; or, in other cases, by permission of Course Convener.

*Assessment:* One piece of comparative work, normally an essay (weighted at 40%), and one two-hour end of course exam containing a strong comparative element with each question addressing at least two texts (weighted at 60%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course aims to analyse the theme of "crossing borders" in geographical, scientific, political, psychological, social, cultural and gender-orientated terms, building on literary skills which students have acquired through study at Level 1. It focuses on the human motivations behind, and the consequences of, various "crossings" as well as the exploration of otherness, secrets, mysteries and taboos. It additionally deals with literary depictions of exile, emigration, travels, love and broadly understood "discoveries". The course will encourage students to apply the analytical skills they have gained to a wide range of problems which may confront them in different situations and contexts in later life.

*Course Co-ordinator:* Dr Elwira Grossman

**9NRV COMPARATIVE LITERATURE 2B  
- FRONTIERS (EXPLORING IDENTITY)**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Wednesday and Thursday at 4.00 p.m.

*Requirements of entry:* At least 20 credits at Grade D or better in one of the following subjects at Level 1: Comparative Literature; a Modern Language Course which includes the study of literature; Classical Civilisation; English Literature; Scottish Literature; Slavonic Studies; or, in other cases, by permission of Course Convener.

*Assessment:* One piece of comparative work, normally an essay (weighted at 40%), and one two-hour end of course exam containing a strong comparative element with each question addressing at least two texts (weighted at 60%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Building on literary skills which students have acquired through study at Level 1, this course will focus on various literary and cinematic depictions of the human search for identity and the meaning of self through a series of challenging texts and films from a variety of cultures. The course will encourage students to apply the analytical skills they have gained to a wide range of problems which may confront them in different situations and contexts in later life.

*Course Co-ordinator:* Dr Margaret Tejerizo

**0BUW COMPARATIVE LITERATURE  
3A: CONSTRUCTING THE LITERARY  
SELF**

*Credits:* 30 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesday, Wednesday and Thursday at 3.00

*Requirements of entry:* 40 credits at grade D or better in any subject at level 2, of which: At least 20 credits at grade D or better in one of the following subjects at level 2: Comparative Literature, A Modern Language course which includes the study of literature; Celtic Civilization; Classical Civilization; English Language; English Literature; Scottish Literature; Slavonic Studies; Narratives of Adultery (Crichton); or, in other cases, by permission of Course Convener

*Assessment:* One essay (33.33%); Final 2-hour examination (66.66%)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to certain major representative works of literature in translation and thereby to develop their literary awareness and sensitivity, with a particular emphasis on constructions of the self in literature across a range of cultures and periods; To engage students imaginatively in the process of reading and analysing literary texts in translation; To allow students to critically reflect upon the advantages and disadvantages of differing approaches to literary material and to

select interpretative models that seem appropriate to a given piece or body of material; To extend students' analytical and presentational skills acquired at Levels 1 and 2; To develop an awareness of intercultural issues by presenting set texts not only individually, but also in relation to each other; To develop, through written assignments and tutorial discussion, skills that are both important in their own right and are also transferable, notably independent critical thinking and judgement, the ability to assimilate, analyse and compare unfamiliar/difficult material, solve problems, produce assignments, organise time, learn independently, argue coherently, and handle detail without losing sight of general perspectives.

*Course Co-ordinator:* Dr Eanna O'Ceallachain

### **OBVW COMPARATIVE LITERATURE 3B: SELF AND HISTORY IN LITERATURE**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday, Wednesday and Thursday at 3.00

*Requirements of entry:* 40 credits at Grade D or better in any subject at Level 2, of which: At least 20 credits at Grade D or better in one of the following subjects at Level 2: Comparative Literature, A Modern Language course which includes the study of literature; Celtic Civilization; Classical Civilization; English Language; English Literature; Scottish Literature; Slavonic Studies; Narratives of Adultery (Crichton); or, in other cases, by permission of the Course Convener

*Assessment:* One essay (33.33%); Final 2-hour examination (66.66%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to certain major representative works of literature in translation and thereby to develop their literary awareness and sensitivity, with a particular emphasis on the relationship between literature and the socio-cultural, historical and ideological contexts from which it emerges; To engage students imaginatively in the process of reading and analysing literary texts in translation; To allow students to critically reflect upon the advantages and disadvantages of differing approaches to literary material and to select interpretative models that seem appropriate to a given piece or body of material; To extend students' analytical and presentational skills acquired at Levels 1 and 2; To develop an awareness of intercultural issues by presenting set texts not only individually, but also in relation to each other; To develop, through written assignments and tutorial discussion, skills that are both important in their own right and are also transferable, notably independent critical thinking and judgement, the ability to assimilate, analyse and compare unfamiliar/difficult material, solve problems, produce assignments, organise time, learn independently, argue coherently, and handle detail without losing sight of general perspectives.

*Course Co-ordinator:* Dr Jan Culik

### **9BFF COMPARATIVE LITERATURE 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Core course: 1 hour weekly, on Tuesday at 1.00. Other times depend on option choice.

*Requirements of entry:* Grade D or better in at least two of the four Comparative Literature courses at levels 1 and 2, at least one of which must be at level 2 with grade C or better.

*Co-requisites:* Acceptance into Joint Honours by another relevant Department and compliance with Arts Faculty regulations on Honours entry.

*Assessment:* One Core course: 2-hour exam (50%); essay (50%). Optional courses, depending on student choices, will be assessed by a combination of course work and examination. All 3H courses examined at end of 3H year.

*Degree Examination taken in:* May/June

*Aims:* To engage students in the comparative study of literatures/cultures of different languages, nations and periods with a view to examining and analysing their inter-relationships. To introduce students, through the core courses, to major concepts in literary and cultural theory and intercultural approaches to literature. To offer students the opportunity of studying culturally different texts in a framework which includes issues of gender, ethnicity and colonial and post-colonial experiences. To allow students to reflect critically upon differing approaches to literary material and to select interpretative models appropriate to a given text or texts. To give students an awareness of issues of language and translation as they relate to the reading of texts from different cultures. To develop, to an advanced level, skills of analysis, argument and presentation acquired at levels 1 and 2. To develop, through written assignments and seminar discussion, skills that are both important in their own right and are also transferable, notably independent critical thinking and judgement, the ability to assimilate, analyse and compare unfamiliar/difficult material, solve problems, produce assignments, organize time, learn independently, argue coherently, and handle detail without losing sight of general perspectives.

*Honours Course Prescription:* All students take two compulsory 15-credit core courses (one in 3H, one in 4H): Intercultural Readings and Theories of Reading. Students choose options to make up remaining credits. Options in 3H may include ONE of: Constructing the Literary Self; Self and History in Literature. Options may include one course worth up to a maximum of 30 credits from the available 'language only' courses in SMLC at levels 1, 2 and 3. Other options include (not all are necessarily available in any given year): The European Emblem; French Cinema; Czech, Polish and Russian Women's writing; Russian Novel; Mass Media of Central and Eastern Europe; Further Issues Concerning Mass Media of Central and Eastern Europe; Contemporary Czech Cinema; Polish Literature in Translation from Renaissance to C20th; 20th Century Polish Literature; Contemporary Polish Cinema; Polish Identities; History of the Czechs and the Slovaks; Domesticating the Dictators; Slavonic Drama; Russian Cinema;



The Literature of the Holocaust; Power and Culture in Late Soviet and Post-Soviet Russia; Grimm's Fairy Tales; Medieval Welsh Literature; Early Gaelic Literature; Belief and Culture: Early Medieval Ireland and Scotland; Censorship in Western Culture; Infidelities; Estonian Society, Culture and Language; Borges, the World and Text. Not more than one option of a non-comparative nature may be chosen. A dissertation (15 credits) may be substituted for one option in 3H year.

*Course Co-ordinator:* Dr Elwira Grossman

### **9BLG COMPARATIVE LITERATURE 4H (JOINT)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Core course: 1 hour weekly, on Tuesday at 1.00. Other times depend on option choice.

*Requirements of entry:* Grade D or better in at least two of the four Comparative Literature courses at levels 1 and 2, at least one of which must be at level 2 with grade C or better.

*Co-requisites:* Acceptance into Joint Honours by another relevant Department and compliance with Arts Faculty regulations on Honours entry.

*Assessment:* One Core course: 2-hour exam (50%); essay (50%). Optional courses, depending on student choices, will be assessed by a combination of course work and examination. All 3H courses examined at end of 3H year.

*Degree Examination taken in:* May/June

*Aims:* To engage students in the comparative study of literatures/cultures of different languages, nations and periods with a view to examining and analysing their inter-relationships. To introduce students, through the core courses, to major concepts in literary and cultural theory and intercultural approaches to literature. To offer students the opportunity of studying culturally different texts in a framework which includes issues of gender, ethnicity and colonial and post-colonial experiences. To allow students to reflect critically upon differing approaches to literary material and to select interpretative models appropriate to a given text or texts. To give students an awareness of issues of language and translation as they relate to the reading of texts from different cultures. To develop, to an advanced level, skills of analysis, argument and presentation acquired at levels 1 and 2. To develop, through written assignments and seminar discussion, skills that are both important in their own right and are also transferable, notably independent critical thinking and judgement, the ability to assimilate, analyse and compare unfamiliar/difficult material, solve problems, produce assignments, organize time, learn independently, argue coherently, and handle detail without losing sight of general perspectives.

*Honours Course Prescription:* All students take two compulsory 15-credit core courses (one in 3H, one in 4H): Intercultural Readings and Theories of Reading. Students choose options to make up remaining credits. Options in 3H may include ONE of: Constructing the Literary Self; Self and History in Literature. Options may include one course worth up to a maximum

of 30 credits from the available 'language only' courses in SMLC at levels 1, 2 and 3. Other options include (not all are necessarily available in any given year): The European Emblem; French Cinema; Czech, Polish and Russian Women's writing; Russian Novel; Mass Media of Central and Eastern Europe; Further Issues Concerning Mass Media of Central and Eastern Europe; Contemporary Czech Cinema; Polish Literature in Translation from Renaissance to C20th; 20th Century Polish Literature; Contemporary Polish Cinema; Polish Identities; History of the Czechs and the Slovaks; Domesticating the Dictators; Slavonic Drama; Russian Cinema; The Literature of the Holocaust; Power and Culture in Late Soviet and Post-Soviet Russia; Grimm's Fairy Tales; Medieval Welsh Literature; Early Gaelic Literature; Belief and Culture: Early Medieval Ireland and Scotland; Censorship in Western Culture; Infidelities; Estonian Society Culture and Language; Borges, the World and Text. Not more than one option of a non-comparative nature may be chosen. A dissertation (15 credits) may be substituted for one option in 3H year.

*Course Co-ordinator:* Dr Elwira Grossman

### **FRENCH**

#### **2HFU FRENCH 1A (LANGUAGE ONLY)**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* No fixed class hour but a wide range of times available. A weekly language class on Tuesday, weekly video/language class on Monday at either 10am or 3pm, a fortnightly oral class.

*Requirements of entry:* At least grade C (B more advisable) in SCE Higher French or equivalent.

*Excluded Courses:* French 1A, French 1B, French 1B (Language Only)

*Assessment:* The total is made up of results from five equally weighted elements of assessment: (i) Continuous assessment grammar tests (ii) Paper One examination translation into French (iii) Paper One examination translation into English (iv) Video examination requiring paraphrase of video clip and related essay in French (v) Oral mark based half on continuous assessment and half on oral examination.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the language provision at Level 1A are to develop your skills in the understanding, reading, writing and speaking of French and increase your knowledge of French vocabulary and French grammar beyond the course entry level and to a standard sufficient for consideration for entry into the Level 2 class. You will be offered feedback on the various language exercises you are required to complete and submit (grammar tests, translations, independent writing, video comprehension exercises). You will also be required to prepare materials in advance of oral classes and then present those materials in the form of short exposés.

*Course Co-ordinator:* Dr Heather Lloyd

## **SUGU FRENCH 1A LANGUAGE, LITERATURE AND MODERN FRANCE**

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* A weekly language class on Tuesday, a weekly video/language class on Monday at 10am or 3pm, a weekly literature lecture on Thursday at 10am or 3pm, a fortnightly oral class.

*Requirements of entry:* At least grade C (B more advisable) in SCE Higher French or equivalent.

*Co-requisites:* None

*Excluded Courses:* French 1A (Language Only), French 1B, French 1B (Language Only)

*Assessment:* The language total is made up of results from five equally weighted elements of assessment: (i) Continuous assessment grammar tests (ii) Paper One examination translation into French (iii) Paper One examination translation into English (iv) Video examination requiring paraphrase of video clip and related essay in French (v) Oral mark based half on continuous assessment and half on oral examination. The literature/film total is made up of results from three equally weighted elements of assessment: (i) the better of two marks from a semester one essay and a semester two class test (ii) Paper Two examination literature commentary (iii) Paper Two examination literature/film essay. The language and literature/film halves of the course are equally weighted except that an overall satisfactory result normally requires a minimum level of performance to be achieved in the language half of the results.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the language provision at Level 1A are to develop your skills in the understanding, reading, writing and speaking of French and increase your knowledge of French vocabulary and French grammar beyond the course entry level and to a standard sufficient for consideration for entry into the Level 2 class. You will be offered feedback on the various language exercises you are required to complete and submit (grammar tests, translations, independent writing, video comprehension exercises). You will also be required to prepare materials in advance of oral classes and then present those materials in the form of short exposés. The literature and culture element of the course is designed to enhance your expertise in the study of literature and cinema, and also to inculcate various generally useful skills and techniques. The course will therefore: 1)introduce you to a range of texts of different genres from the nineteenth and twentieth centuries along with a range of French films mainly from the post-war period, 2)develop your capacity for sensitive and detailed reading of text and film, with awareness of their cultural and historical contexts, 3)develop your capacity for written critical analysis of texts and films and the constructing of viable arguments about those works and the issues which arise from them, 4)give you a sense of how both the set texts and films have been regarded and criticised, and of how that criticism has interacted with or is shaped by other arts and systems of thought.

*Course Co-ordinator:* Dr Heather Lloyd

## **1C7B FRENCH 1B (BEGINNERS' LANGUAGE: INSTITUTIONS AND LITERATURE)**

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* A weekly video/grammar class on Tuesday at 10, 2 or 3. A further weekly language class on Wednesday at 10, 2 or 3. A weekly literature/film lecture on Thursday at 10 or 3. A fortnightly oral class at various times.

*Requirements of entry:* Entrance is restricted to those who do NOT have a pass in SCE Higher French or its equivalent within the last four years.

*Excluded Courses:* French 1B (Language Only), French 1A, French 1A (Language Only)

*Assessment:* The language total is made up of results from five equally weighted elements of assessment: (i) Continuous assessment language tests (ii) Paper One examination translation into French (iii) Paper One examination translation into English (iv) Video comprehension examination (v) Oral mark based half on continuous assessment and half on oral examination. The literature/film total is made up of results from three equally weighted elements of assessment: (i) the better of two marks from a semester one essay and a semester two class test; (ii) and (iii) Two literature/film examination questions (Paper Two). The language and literature/film halves of the course are equally weighted.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the language provision at Level 1B to introduce you to the grammar and syntax of the French language, to help you acquire a basic vocabulary, to enable you to use the language both in speaking and writing and to acquaint you in general terms with French culture. You will acquire skills in the understanding, reading, writing and speaking of French and increase your knowledge of French vocabulary and French grammar, such that students who perform very well on the course will attain a standard sufficient for consideration for entry into the Level 2 class. You will be offered feedback on all the language exercises you are required to complete during the course: grammar tests, translations, video comprehension exercises. You will also be encouraged to prepare materials in advance of oral classes and then present those materials to the class. The literature and culture element of the course is designed to enhance your expertise in the study of literature and cinema, and also to inculcate various generally useful skills and techniques. The course will therefore: 1)introduce you to a range of texts of different genres from the nineteenth and twentieth centuries along with a range of French films mainly from the post-war period, 2)develop your capacity for sensitive and detailed reading of text and film, with awareness of their cultural and historical contexts, 3)develop your capacity for written critical analysis of texts and films and the constructing of viable arguments about those works and the issues which arise from them, 4)give you a sense of how both the set texts and films have been regarded and criticised, and of how that criticism has interacted with or is shaped by other arts and systems of thought.

*Course Co-ordinator:* Dr Heather Lloyd

## 2NDU FRENCH 1B (LANGUAGE ONLY)

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* A weekly video/grammar class on Tuesday at 10, 2 or 3. A further weekly language class on Wednesday at 10, 2 or 3. A fortnightly oral class at various times.

*Requirements of entry:* Entrance is restricted to those who do NOT have a pass in SCE Higher French or its equivalent in the last four years.

*Excluded Courses:* French 1B, French 1A, French 1A (Language Only)

*Assessment:* The total is made up of results from five equally weighted elements of assessment: (i) Continuous assessment language tests (ii) Paper One examination translation into French (iii) Paper One examination translation into English (iv) Video comprehension examination (v) Oral mark based half on continuous assessment and half on oral examination.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aims of the language provision at Level 1B to introduce you to the grammar and syntax of the French language, to help you acquire a basic vocabulary, to enable you to use the language both in speaking and writing and to acquaint you in general terms with French culture. You will acquire skills in the understanding, reading, writing and speaking of French and increase your knowledge of French vocabulary and French grammar, such that students who perform very well on the course will attain a standard sufficient for consideration for entry into the Level 2 class. You will be offered feedback on all the language exercises you are required to complete during the course: grammar tests, translations, video comprehension exercises. You will also be encouraged to prepare materials in advance of oral classes and then present those materials to the class.

*Course Co-ordinator:* Dr Heather Lloyd

## 7FNV FRENCH 2

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Lectures at 12 noon on Tuesday and Wednesday, language tutorials at 11am, 12 noon or 1pm on Thursday. Literature tutorials, Computer Assisted Language Learning and conversation classes at various other times.

*Requirements of entry:* Grade D or better at French 1A or 1C, or grade B or A at French 1B, or by Head of Department's permission.

*Assessment:* Three 2-hour examinations; Oral; continuous assessment literature exercises during both semesters.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To extend all students' linguistic skills (both written and spoken) acquired at level 1; to introduce

full-time students to certain major representative works of literature from the 17th to the 20th centuries in a range of genres, and thereby to develop their literary sensitivity; to enhance all students' sense of the interest, importance and usefulness of their studies not only as preparation for future visits to French-speaking countries (eg during the year abroad) but also as relevant to an understanding of current attitudes and contemporary events (eg Voltaire on War); to develop, through written and oral assignments, skills that are both important in their own right and also transferable (and therefore important for employment prospects), notably the ability to assimilate and analyse unfamiliar/difficult material, solve problems, produce assignments, organize time, learn by oneself, argue cogently, and handle detail without losing sight of general perspectives.

*Course Co-ordinator:* Dr Amy Wygant

## 7ETV FRENCH LANGUAGE 2

*Credits:* 20

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Language lectures/seminars at 12 noon on Wednesday, language tutorials at 11am, 12 noon or 1pm on Thursday, weekly conversation classes and fortnightly Computer Assisted Language Learning classes at various other times.

*Requirements of entry:* Grade D or better in French 1A ('Language Only' course) or grade B or A in French 1B ('Language Only' course) or by Head of Department's permission.

*Assessment:* Two 2-hour examinations; Oral; continuous assessment exercises during both semesters.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Language study through written translation, comprehension, oral classes and some use of material recorded on cassette and video to develop aural/oral skills. Aims are: to extend students' linguistic skills (both written and spoken) acquired in Level 1 French; to enhance students' sense of the interest, importance and usefulness of their studies not only as a preparation for future visits to French-speaking countries (e.g. on ERASMUS/SOCRATES courses) but also as relevant to an understanding of current affairs and attitudes (e.g. as reflected in contemporary journalism, both spoken and written); to develop skills that are important both in their own right and for employment purposes.

*Course Co-ordinator:* Dr Amy Wygant

## 114D FRENCH 3

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Language, Tuesday and Wednesday at 12 noon and a further language class (choice of times); Students will also study courses amounting to 30 credits (e.g. 2 x 15 credit courses or 4 x 7.5 credit courses) from the Honours courses.

*Requirements of entry:* Head of Department's discretion

*Assessment:* One three-hour written language paper of translations into (33.3%) and out of French (33.3%), plus an oral examination (33.3%). A minimum D grade to have been obtained in the written paper. In Literature, Honours content courses are examined by continuous assessment (see Honours content courses).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The oral and written assignments are designed to encourage autonomous learning, good time-management and analytical and communicative skills, which are highly valued in all spheres of employment. The aims of the Honours content courses are to encourage study in depth of a period, a genre or of specific aspects of language and to foster autonomous work and analytical skills, as in Honours. Choices are made in consultation with the Honours coordinator.

*Course Co-ordinator:* Mr William Dickson

### 114F FRENCH 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Seminars are daily at 10.00 am and 12.00 and at other times to be arranged. All tutorials are at times to be arranged.

*Requirements of entry:* Normally satisfactory performance in French 2 and a prolonged period of residence in France. Those students who have spent a year in another country such as Germany spend the third term of Junior Honours at a course in France.

*Assessment:* Joint Honours students take 4 x 15 credit courses over two years or equivalent involving 7.5 credit courses + 60 credits language over two years. Language: two written papers by examination; two oral examinations in Senior Honours. (Each language paper/oral is rated at 15 credits). Content courses: see details of assessment of content courses under 'honours course prescription'. The content element will be examined by continuous assessment or end of term exam in both Junior and Senior Honours.

*Degree Examination taken in:* May/June

*Aims:* Wherever possible, to give the student as much choice for exploring aspects of French language, literature and culture as is consistent with staff availability; To consolidate and significantly develop the student's existing knowledge of French language, literature and culture; building on a period of extended residence abroad; to consolidate both written and oral language acquisition; to develop transferable analytical and presentational skills.

*Honours Course Prescription:* Throughout the two years of study students have regular written language and oral classes. Content courses are chosen from the following: From Epic to Romance; Tricks and Tricksters in Medieval Narrative; Late Medieval Lyric Poetry; Ronsard and Rabelais: Renaissance Humour; Emblems; The Triumph of Theatre 1630-1680; Corneille Dramatist; The Tragedy of Racine; Molière; Illusion and Truth: from Montaigne to Voltaire; The Court of Versailles; Sexuality, Textuality and Society;

The Eighteenth-century French novel; History in 19th-century Prose Fiction; Québec Politics and Culture; Bande Dessinée; L'Ecole de Brive: social change and identity in the modern novel; French Cinema; Recent French Social Thought; Sexualities I (Dissidence); Sexualities II (Sado-masochism); Remembering in 20th-century Fiction; Stagecraft and Witchcraft; The 20th-century Novel; Women's Writing; Parallel Visions: Poetic Visuality/Screen Writing in French 20th-century Poetry and Cinema; 20thC French Thought; French Dialects; Le Français des Affaires; Le Français des Sciences sociales; Legal French; Modern Occitan Culture; Medieval and Renaissance Occitan Literature; TEFL. Content courses will normally be assessed by an essay or similar piece of work written at the end of term. In the case of French Dialects, Le Français des Affaires, Le Français des Sciences Sociales and Legal French, the course will not be assessed by the usual essay but by a mixture of appropriate language exercises (linguistic commentary, translation, video comprehension, résumé and synthesis) over the course of each term, both from and into French, some exercises being done under examination conditions.

*Course Co-ordinator:* Mr William Dickson

### 114H FRENCH 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Seminars are daily at 10.00 am and 12.00 and at other times to be arranged. All tutorials are at times to be arranged. Stylistics (Junior Honours) on Tuesdays at 2.00, and Video and related language work (Senior Honours) on Tuesdays at 9.00.

*Requirements of entry:* Normally satisfactory performance in French 2 and a prolonged period of residence in France.

*Assessment:* Single Honours students take 8 x 15 credit courses (or equivalent) + 30 credit Dissertation + 90 credits in language over the two years. Language: two written language papers; two oral examinations in Senior Honours; a paper on Stylistics (end of Junior Honours) and a paper on video-based language analysis (Senior Honours). All language papers are weighted at 15 credits each and the proportion of total assessment for language is 37.5%. Content courses: see details of assessment of content courses under 'honours course prescription'. Content elements equivalent to 50% of the total assessment will be examined by class essays submitted during Junior and Senior Honours or end of term exams. 12.5% of assessment is by dissertation (8000-10,000 words), submitted prior to the commencement of the Senior Honours year.

*Degree Examination taken in:* May/June

*Aims:* Wherever possible, to give the student as much choice for exploring aspects of French language, literature and culture as is consistent with staff availability; to consolidate and significantly develop the student's existing knowledge of French language, literature and culture; building on a period of extended residence abroad; to consolidate both written and oral language acquisition; to develop transferable analytical and presentational skills.

*Honours Course Prescription:* Throughout the two years of study students have regular written language and oral classes. Single Honours also follow courses in Stylistics and Video and related language work. Content courses are chosen from the following: From Epic to Romance; Tricks and Tricksters in Medieval Narrative; Late Medieval Lyric Poetry; Ronsard and Rabelais: Renaissance Humour; Emblems; The Triumph of Theatre 1630-1680; Corneille Dramatist; The Tragedy of Racine; Molière; Illusion and Truth: from Montaigne to Voltaire; The Court of Versailles; Sexuality, Textuality and Society: The Eighteenth-century French novel; History in 19th-century Prose Fiction; Québec Politics and Culture; Bande Dessinée; L'Ecole de Brive: social change and identity in the modern novel; French Cinema; Recent French Social Thought; Sexualities I (Dissidence); Sexualities II (Sado-masochism); Remembering in 20th-century Fiction; Stagecraft and Witchcraft; Sharpened senses etc etc to pages of bodies; The 20th-century Novel; Women's Writing; Parallel Visions: Poetic Visuality/Screen Writing in French 20th-century Poetry and Cinema; 20thC French Thought; French Dialects; Le Français des Affaires; Le Français des Sciences sociales; Legal French; Modern Occitan Culture; Medieval and Renaissance Occitan Literature; TEFL. Content courses will normally be assessed by an essay or similar piece of work written at the end of term. In the case of French Dialects, Le Français des Affaires, Le Français des Sciences Sociales and Legal French, the course will not be assessed by the usual essay but by a mixture of appropriate language exercises (linguistic commentary, translation, video comprehension, résumé and synthesis) over the course of each term, both from and into French, some exercises being done under examination conditions.

*Course Co-ordinator:* Mr William Dickson

## 2HFW FRENCH LANGUAGE 3

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Tuesday and Wednesday at 12.00 noon and a further language class (choice of times)

*Requirements of entry:* This class would normally be followed by non-native Socrates students doing French as part of the degree for the home universities. Such students should consult the departmental Socrates co-ordinator, Mr Dickson.

*Assessment:* One three-hour written language paper of translations into (33.3%) and out of French (33.3%), plus an oral examination (33.3%). A minimum D grade to have been obtained in the written paper.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The oral and written assignments are designed to encourage autonomous learning, good time-management and analytical and communicative skills, which are highly valued in all spheres of employment.

*Course Co-ordinator:* Dr C Woollen

## 114G FRENCH 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Seminars are daily at 10.00 am and 12.00 and at other times to be arranged. All tutorials are at times to be arranged.

*Requirements of entry:* Normally satisfactory performance in French 2 and a prolonged period of residence in France. Those students who have spent a year in another country such as Germany spend the third term of Junior Honours at a course in France.

*Assessment:* Joint Honours students take 4 x 15 credit courses over two years or equivalent involving 7.5 credit courses + 60 credits language over two years. Language: two written papers by examination; two oral examinations in Senior Honours. (Each language paper/oral is rated at 15 credits). Content courses: see details of assessment of content courses under honours course prescription. 75% of the content element will be examined by continuous assessment in Junior Honours and the first term of Senior Honours.

*Degree Examination taken in:* May/June

*Aims:* Wherever possible, to give the student as much choice for exploring aspects of French language, literature and culture as is consistent with staff availability; To consolidate and significantly develop the student's existing knowledge of French language, literature and culture; building on a period of extended residence abroad; to consolidate both written and oral language acquisition; to develop transferable analytical and presentational skills.

*Honours Course Prescription:* Throughout the two years of study students have regular written language and oral classes. Content courses are chosen from the following: Form, Society and Violence in Old French Narrative; From Epic to Romance; Tricks and Tricksters in Medieval Narrative; Late Medieval Lyric Poetry; Ronsard and Rabelais: Renaissance Humour; Emblems; The Triumph of Theatre 1630-1680; Corneille Dramatist; The Tragedy of Racine; Molière; Illusion and Truth: from Montaigne to Voltaire; The Court of Versailles; Sexuality, Textuality and Society: The Eighteenth-century French novel; History in 19th-century Prose Fiction; Thinkers and Dreamers (Poetry course); The City in 19th-century Literature and Art; Nerval: Sylvie and Textuality; Sharpened Senses, Macabre Visions (19th century); Québec Politics and Culture; Bande Dessinée; L'Ecole de Brive: social change and identity in the modern novel; French Cinema; The Films of Georges Méliès; Recent French Social Thought; Sexualities I (Dissidence); Sexualities II (Sado-masochism); Remembering in 20th-century Fiction; Stagecraft and Witchcraft; Sharpened Senses, Macabre Visions (20th century); Bernard Noël: Pages of Bodies; The 20th-century Novel; Women's Writing; Parallel Visions: Poetic Visuality/Screen Writing in French 20th-century Poetry and Cinema; 20thC French Thought; French Dialects; Le Français des Affaires; Le Français des Sciences sociales; Legal French; Modern Occitan Culture; Medieval and Renaissance Occitan Literature; TEFL; Contemporary France. Content courses will normally be assessed by an essay or sim-

ilar piece of work written at the end of term. Should the content course be studied in the second term of Senior Honours, then it will be assessed by an essay or similar piece of work in Finals. In the case of French Dialects, Le Français des Affaires and Le Français des Sciences Sociales the course will not be assessed by the usual essay but by a mixture of appropriate language exercises (linguistic commentary, résumé and synthesis) over the course of each term, both from and into French. Assessment of the Legal French course will be by résumé, translation and synthesis over the course of the year, some exercises being done under examination conditions.

*Course Co-ordinator:* Dr James Simpson

### 114J FRENCH 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Seminars are daily at 10.00 am and 12.00 and at other times to be arranged. All tutorials are at times to be arranged. Stylistics (Junior Honours) on Tuesday at 2.00 or 3.00, and Video and related language work (Senior Honours) on Wednesdays at 2.00.

*Requirements of entry:* Normally satisfactory performance in French 2 and a prolonged period of residence in France.

*Assessment:* Single Honours students take 8 x 15 credit courses (or equivalent) + 30 credit Dissertation + 90 credits language over the two years. Language: two written language papers; two oral examinations in Senior Honours; a paper on Stylistics and a paper on video-based language analysis. An 8000 word dissertation is completed by the beginning of Senior Honours. Content courses: see details of assessment of content courses under honours course prescription. 75% of the content element will be examined by continuous assessment in Junior Honours and the first term of Senior Honours.

*Degree Examination taken in:* May/June

*Aims:* Wherever possible, to give the student as much choice for exploring aspects of French language, literature and culture as is consistent with staff availability; to consolidate and significantly develop the student's existing knowledge of French language, literature and culture; building on a period of extended residence abroad; to consolidate both written and oral language acquisition; to develop transferable analytical and presentational skills.

*Honours Course Prescription:* Throughout the two years of study students have regular written language and oral classes. Single Honours also follow courses in Stylistics and Video and related language work. Form, Society and Violence in Old French Narrative; From Epic to Romance; Tricks and Tricksters in Medieval Narrative; Late Medieval Lyric Poetry; Ronsard and Rabelais: Renaissance Humour; Emblems; The Triumph of Theatre 1630-1680; Corneille Dramatist; The Tragedy of Racine; Molière; Illusion and Truth: from Montaigne to Voltaire; The Court of Versailles; Sexuality, Textuality and Society: the eighteenth-century French novel; History in 19th-century Prose Fiction; Thinkers and Dreamers (Poetry course); The City

in 19th-century Literature and Art; Nerval: Sylvie and Textuality; Sharpened Senses, Macabre Visions (19th century); Québec Politics and Culture; Bande Dessinée; LEcole de Brive: social change and identity in the modern novel; French Cinema; The Films of Georges Méliès; Recent French Social Thought; Sexualities I (Dissidence); Sexualities II (Sado-masochism); Remembering in 20th-century Fiction; Stagecraft and Witchcraft; Sharpened Senses, Macabre Visions (20th century); Bernard Noël: Pages of Bodies; The 20th-century Novel; Womens Writing; Parallel Visions: Poetic Visuality/Screen Writing in French 20th-century Poetry and Cinema; 20thC French Thought; French Dialects; Le Français des Affaires; Le Français des Sciences sociales; Legal French; Modern Occitan Culture; Medieval and Renaissance Occitan Literature; TEFL; Contemporary France. Content courses will normally be assessed by an essay or similar piece of work written at the end of term. Should the content course be studied in the second term of Senior Honours, then it will be assessed by an essay or similar piece of work in Finals. For Single Honours students, assessment may also take the form of an end-of-term take-away paper (three days) or a two-hour open-book examination at the beginning of the following term (arranged informally within the department). In the case of French Dialects, Le Français des Affaires, Le Français des Sciences Sociales the course will not be assessed by the usual essay but by a mixture of appropriate language exercises (linguistic commentary, résumé and synthesis) over the course of each term, both from and into French. Assessment of the Legal French course will be by résumé, translation and synthesis over the course of the year, some exercises being done under examination conditions.

*Course Co-ordinator:* Dr James Simpson

## GERMAN

### KXSU BEGINNERS GERMAN LANGUAGE AND LITERATURE 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* 9am on Monday, Tuesday, Wednesday, Thursday and Friday (fortnightly) plus one oral class at times to be advised.

*Requirements of entry:* Although the class is primarily intended for complete beginners, it is open to all students who have insufficient qualifications to enter German Language and Literature 1A (i.e. those without a recent SCE Higher Pass in German at Grade A, B or C, or equivalent).

*Excluded Courses:* German Language 1A, German Language and Literature 1A, German Literature 1A (Synergy), German Language 1B

*Assessment:* Two 2-hour papers and an oral test (66.6%); continuous assessment (33.3%).

*Aims:* Language Component - (1) give students a working knowledge of German, covering all the basic structures of the language; (2) introduce and develop the 4 language skills (reading, writing, speaking and listening); (3) introduce the use of language reference materials; (4) help and encourage students to develop study

skills, especially for self-study, including the use of IT and multi-media as well as traditional library materials. History, Culture and Literature Component - (1) develop study skills and critical thinking; (2) introduce students to the history, culture and literature of 20th/21st century Germany; (3) provide reading tutorials where students develop an understanding of complex authentic German texts; (4) introduce students to the close reading and appreciation of selected German literary texts.

*Course Co-ordinator:* Ms Hedy Harsem

## 2HGU GERMAN LANGUAGE 1A

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Tuesday and Thursday at 9am, plus one further hour to be arranged.

*Requirements of entry:* The class is open only to students with an SCE Higher Pass in German at Grade A, B or C, or equivalent.

*Assessment:* The examination will consist of a 2-hour paper and an oral test (66.6%). Continuous assessment (33.3%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Teaching Aims: The teaching staff for German Level 1A Language Component will endeavour to: (1) provide an environment where existing knowledge of vocabulary, grammar and language structure can be built upon while providing an incentive to increase such knowledge; (2) provide opportunities for students to become aware of the formal structures of the language which can enable a considered use of the language; (3) provide an environment where the language may be spoken confidently; (4) provide encouragement and opportunities to read difficult texts and to write the language formally and informally; (5) provide a forum where students may ask specific questions about the language and its usage; (6) encourage students to think critically help and encourage students to develop self-study skills, including the use of IT and Multi-Media as well as traditional library materials; (7) encourage students to take responsibility for their weaknesses in study-skills and provide methods and materials to remedy any such weakness; (8) provide a forum where peer and self-assessment are used regularly; (9) provide a forum for individual and group work; (10) provide a forum for student presentations.

*Course Co-ordinator:* Dr Barbara Burns

## 2NEU GERMAN LANGUAGE 1B

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday OR Wednesday and Thursday at 9.00 am in semester 1; Tuesday OR Wednesday and Thursday at 9.00 am in semester 2; plus one oral class at times to be advised.

*Requirements of entry:* Although the class is primarily intended for complete beginners it is open to all students who have insufficient qualifications to enter German 1A

(i.e. those without a recent SCE Higher Pass in German at Grade A, B or C, or equivalent).

*Excluded Courses:* German Language 1A

*Assessment:* One 2-hour paper and an oral test (66.6%); continuous assessment (33.3%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The teaching staff for German Level 1B Language Component will endeavour to: (1) give students a working knowledge of German, covering all the basic structures of the language; (2) introduce and develop the four language skills (reading, writing, speaking and listening); (3) introduce the use of language reference materials; (4) help and encourage students to develop study skills, especially for self-study, including the use of IT and Multi-Media as well as traditional library materials.

*Course Co-ordinator:* Ms Hedy Harsem

## 115B GERMAN LANGUAGE AND LITERATURE 1A

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* The class meets at 9.00 am from Tuesday to Friday, plus one further hour to be arranged.

*Requirements of entry:* The class is open only to students with an SCE Higher Pass in German at Grade A, B, or C, or equivalent.

*Assessment:* Two 2-hour papers and oral test (66.6%); continuous assessment (33.3%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Language Component: The teaching staff for German Level 1A Language Component will endeavour to: (1) provide an environment where existing knowledge of vocabulary, grammar and language structure can be built upon while providing an incentive to increase such knowledge; (2) provide opportunities for students to become aware of the formal structures of the language which can enable a considered use of the language; (3) provide an environment where the language may be spoken confidently; (4) provide encouragement and opportunities to read difficult texts and to write the language formally and informally; (5) provide a forum where students may ask specific questions about the language and its usage; (6) encourage students to think critically; (7) help and encourage students to develop self-study skills, including the use of IT and Multi-Media as well as traditional library materials; (8) encourage students to take responsibility for their weaknesses in study-skills and provide methods and materials to remedy any such weakness; (9) provide a forum where peer and self-assessment are used regularly; (10) provide a forum for individual and group work; (11) provide a forum for student presentations Literature, History and Culture. The teaching staff for German Level 1A Literature, History and Culture will endeavour to: (1) provide lectures on the literature, history and culture of the twentieth century; (2) provide a forum where students may develop listening and note-

taking skills; (3) provide a forum and incentives for the development of critical thinking; (4) provide the opportunity to develop deep learning skills in a setting where students are encouraged to make active use of information gained; (5) provide a forum where students may ask specific questions related to the lectures; (6) provide a forum for student presentations alone or in groups; (7) encourage students to develop the skills of critical thinking and to express themselves in spoken and written form both in formal and informal settings; (8) encourage students to develop skills related to the considered, close-reading of a German text; (9) encourage students to take responsibility for their own learning.

*Course Co-ordinator:* Dr Barbara Burns

### **OXBU GERMAN LITERATURE 1A (LITERATURE ONLY/SYNERGY)**

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday and Friday at 9.00am

*Requirements of entry:* The class is open to students with a Grade C or above in German Language 1B, or SCE Higher at Grade C or above, or equivalent qualification.

*Assessment:* One 2-hour paper and continuous assessment (33.3%).

*Aims:* The teaching staff for German Level 1A Literature will endeavour to: (1) provide lectures on the literature, history and culture of the twentieth century; (2) provide a forum where students may develop listening and note-taking skills; (3) provide a forum and incentives for the development of critical thinking; (4) provide the opportunity to develop deep learning skills in a setting where students are encouraged to make active use of information gained; (5) provide a forum where students may ask specific questions related to the lectures; (6) provide a forum for student presentations alone or in groups; (7) encourage students to develop the skills of critical thinking and to express themselves in spoken and written form both in formal and informal settings; (8) encourage students to develop skills related to the considered, close-reading of a German text; (9) encourage students to take responsibility for their own learning.

*Course Co-ordinator:* Dr Barbara Burns

### **7FMV GERMAN LANGUAGE & LITERATURE 2**

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Tuesday to Friday at 11.00 am plus one further hour to be arranged.

*Requirements of entry:* The class is open to students with a Grade D or above in German Language and Literature 1A.

*Assessment:* Two 2-hour papers and an oral test (66.6%); continuous assessment (33.3%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Language Component: The teaching staff for German Level 2 Language will endeavour to: (1) continue the work of the Level 1A and Level 1B classes; (2) systematically consolidate and advance formal knowledge of grammar and its linguistic application in translation, as well as developing oral skills; (3) provide an environment where existing knowledge of vocabulary, grammar and language structure can be built upon while providing an incentive to increase such knowledge; (4) provide opportunities for students to become aware of the formal structures of the language which can enable a considered use of the language; (5) provide an environment where the language may be spoken confidently; (6) provide an environment and opportunities to read a variety of texts and to write the language in formal settings; (7) provide opportunities for students to ask specific questions about the language and its usage; (8) encourage students to think critically; (9) help and encourage students to develop self-study skills, including the use of IT and Multi-Media as well as traditional library materials; (10) encourage students to take responsibility for their weaknesses in study-skills and provide methods and materials to remedy any such weakness; (11) provide opportunities for peer and self-assessment; (12) provide opportunities for individual and group work; (13) provide opportunities for student presentations. The teaching staff will: (1) provide lectures on the literature, history and culture of Germany in the late eighteenth and in the nineteenth centuries which seek to provide an overview of developments in thought and aesthetics; (2) provide opportunities for students to enhance listening and note-taking skills; (3) provide opportunities and incentives for the continued development of critical thinking; (4) provide opportunities to develop deep learning skills in a setting where students are encouraged to make active use of information gained; (5) provide opportunities for students to refine their understanding of lectures; (6) provide opportunities for student presentations alone or in groups; (7) encourage students to develop the skills of critical thinking and to express themselves in spoken and written form both in formal and informal settings.

*Course Co-ordinator:* Dr Sheila Dickson

### **7ERV GERMAN LANGUAGE 2**

*Credits:* 20

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday, Thursday - 11.00 am; plus one further hour to be arranged.

*Requirements of entry:* German Language 1A at grade D or grade B in German Language 1B.

*Assessment:* One 2-hour paper and an oral test (66.6%); continuous assessment (33.3%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The teaching staff for German Level 2 Language will endeavour to: (1) continue the work of the Level 1A and Level 1B classes; (2) consolidate and advance formal knowledge of grammar and its linguistic application in translation, as well as developing oral skills; (3) provide an environment where existing knowledge of vocabulary, grammar and language structure can be



built upon while providing an incentive to increase such knowledge; (4) provide opportunities for students to become aware of the formal structures of the language which can enable a considered use of the language; (5) provide an environment where the language may be spoken confidently; (6) provide an environment and opportunities to read a variety of texts and to write the language in formal settings; (7) provide opportunities for students to ask specific questions about the language and its usage; (8) encourage students to think critically; (9) help and encourage students to develop self-study skills, including the use of IT and Multi-Media as well as traditional library materials; (10) encourage students to take responsibility for their weaknesses in study-skills and provide methods and materials to remedy any such weakness; (11) provide opportunities for peer and self-assessment; (12) provide opportunities for individual and group work; (13) provide opportunities for student presentations.

*Course Co-ordinator:* Dr Sheila Dickson

### 115F GERMAN 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday, Friday - 3.00 pm. Core lectures (Thursday) and core classes will always meet at 3.00 pm. Further hours to be arranged.

*Requirements of entry:* The prerequisite for admission to German Honours (both Single and Joint) is a good pass in German Level 2 at Band C or above. Students with a Band D pass may be admitted after interview with the Head of Section.

*Assessment:* Coursework (33.3%), Final examination (66.6%). 5 written papers (2 language, 1 core literature (Strand A), 2 options (Strand B) - or 1 option plus dissertation) and an oral examination, making 6 papers in all.

*Degree Examination taken in:* May/June

*Aims:* The teaching staff for Honours will endeavour to: (1) foster a thorough, accurate knowledge and considered application of the German language; (2) impart an in-depth knowledge of aspects of German language, literature and culture; (3) encourage students to work effectively and grow in their ability to take responsibility for their own learning; (4) enable students to acquire the necessary generic skills which will equip them as life-long learners outwith the University and which are both prized by employers and of benefit in a changing global society; (5) realise the potential for students to become future leaders, teachers, and researchers; (6) stimulate and promote an enthusiasm for German and its study in an atmosphere conducive to the pursuit of scholarship.

*Honours Course Prescription:* Joint Honours students take: Written German; Spoken German; the German Core Texts 1 and 2 (Strand-A); and 2 of the following Strand-B options (one in 3H, one in 4H): Liaison Interpreting; Teaching English as a Foreign Language; Modern German Novel; Modern German Thought I: Habermas; Modern German Thought II: Freud & Jung; Faust II; German Novelle in the 19th Century; German Literature of the Late 19th Century; Wilhelm Meister; and

possible further options from the Comparative Literature programme, where appropriate.

*Course Co-ordinator:* Prof Roger Stephenson

### 115H GERMAN 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday, Friday - 3.00 pm. Core lectures (Thursday) and core classes will always meet at 3.00 pm. Further hours to be arranged.

*Requirements of entry:* The prerequisite for admission to German Honours (both Single and Joint) is a good pass in German Level 2 at Band C or above. Students with a Band D pass may be admitted after interview with the Head of Section.

*Assessment:* Coursework (33.3%), Final examination (66.6%). 11 written papers (2 core language, 1 core literature, 1 language project, 6 options, 1 dissertation) plus 2 oral examinations (one Internal and one with the External Examiners).

*Degree Examination taken in:* May/June

*Aims:* The teaching staff for Honours will endeavour to: (1) foster a thorough, accurate knowledge and considered application of the German language; (2) impart an in-depth knowledge of aspects of German language, literature and culture; (3) encourage students to work effectively and grow in their ability to take responsibility for their own learning; (4) enable students to acquire the necessary generic skills which will equip them as life-long learners outwith the University and which are both prized by employers and of benefit in a changing global society; (5) realise the potential for students to become future leaders, teachers, and researchers; (6) stimulate and promote an enthusiasm for German and its study in an atmosphere conducive to the pursuit of scholarship.

*Honours Course Prescription:* Single Honours students take: Written German; Spoken German; the German Junior-Honours Language Project; the Oral-Skills Course; the German Dissertation; the German Core Texts 1 and 2 (Strand-A); and 6 of the following Strand-B options (one in 3H, one in 4H): Liaison Interpreting; Teaching English as a Foreign Language; Modern German Novel; Modern German Thought I: Habermas; Modern German Thought II: Freud & Jung; Faust II; German Novelle in the 19th Century; German Literature of the Late 19th Century; Wilhelm Meister; and possible further options from the Comparative Literature programme, where appropriate.

*Course Co-ordinator:* Prof Roger Stephenson

### 2HGW GERMAN LANGUAGE 3A

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Language: 3 hours per week at times to be arranged, delivered at Strathclyde University.

*Requirements of entry:* German Language 2 at grade D.

*Assessment:* One 3-hour paper and an oral test (66.67%). Continuous assessment (33.33%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The teaching staff will endeavour to: (1) foster a thorough, accurate knowledge and considered application of the German Language; (2) impart an in-depth knowledge of the German language and aspects of literature and culture; (3) encourage students to work effectively and grow in their ability to take responsibility for their own learning; (4) enable students to acquire the necessary generic skills which will equip them as life long learners outwith the University and which are both prized by employers and of benefit in a changing global society; (5) realise the potential for students to become future leaders, teachers and researchers; (6) stimulate and promote enthusiasm for German and its study in an atmosphere conducive to the pursuit of scholarship.

*Course Co-ordinator:* Ms Hedy Harsem

### 115D GERMAN LANGUAGE AND LITERATURE 3A

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Daily. Language: 3 hours per week, delivered at Strathclyde University. Literature options (the Strand A course plus ONE Strand B course): at times to be arranged.

*Requirements of entry:* German Language and Literature 2 at grade D.

*Assessment:* Two 2 hour papers and an oral (66.67%). Course work: language, essays and course assignments (33.33%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The teaching staff will endeavour to: (1) foster a thorough, accurate knowledge and considered application of the German Language; (2) impart an in-depth knowledge of the German language and aspects of literature and culture; (3) encourage students to work effectively and grow in their ability to take responsibility for their own learning; (4) enable students to acquire the necessary generic skills which will equip them as life-long learners outwith the University and which are both prized by employers and of benefit in a changing global society; (5) realise the potential for students to become future leaders, teachers, and researchers; (6) stimulate and promote enthusiasm for German and its study in an atmosphere conducive to the pursuit of scholarship.

*Course Co-ordinator:* Prof Roger Stephenson

### 115G GERMAN 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday, Friday - 3.00 pm. Core lectures (Thursday) and core classes will always be at 3.00 pm. Further hours to be arranged.

*Requirements of entry:* The prerequisite for admission to German Honours (both Single and Joint) is a good pass in German Level 2 at Band C or above. Students with a Band D pass may be admitted after interview with the Head of Section.

*Assessment:* Coursework (33.3%), Final examination (66.6%). 5 written papers (2 language, 1 core literature (Strand A), 2 options (Strand B) - or one option plus dissertation) and an oral examination, making 6 papers in all.

*Degree Examination taken in:* May/June

*Aims:* The teaching staff for Honours will endeavour to: (1) foster a thorough, accurate knowledge and considered application of the German language; (2) impart an in-depth knowledge of aspects of German language, literature and culture; (3) encourage students to work effectively and grow in their ability to take responsibility for their own learning; (4) enable students to acquire the necessary generic skills which will equip them as life-long learners outwith the University and which are both prized by employers and of benefit in a changing global society; (5) realise the potential for students to become future leaders, teachers, and researchers; (6) stimulate and promote an enthusiasm for German and its study in an atmosphere conducive to the pursuit of scholarship.

*Honours Course Prescription:* Joint Honours students take: Written German; Spoken German; the German Core Texts 1 and 2 (Strand-A); and 2 of the following Strand-B options (one in 3H, one in 4H): Liaison Interpreting; Teaching English as a Foreign Language; Modern German Novel; Modern German Thought I: Habermas; Modern German Thought II: Freud & Jung; Faust II; German Novelle in the 19th Century; German Literature of the Late 19th Century; Wilhelm Meister; and possible further options from the Comparative Literature programme, where appropriate.

*Course Co-ordinator:* Mr Bernard Ashbrook

### 115J GERMAN 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday, Friday - 3.00 pm. Core lectures (Thursday) and core classes will always meet at 3.00 pm. Further hours to be arranged.

*Requirements of entry:* The prerequisite for admission to German Honours (both Single and Joint) is a good pass in German Level 2 at Band C or above. Students with a Band D pass may be admitted after interview with the Head of Section.

*Assessment:* Coursework (33.3%), Final examination (66.6%). 11 written papers (2 core language, 1 core literature, 1 language project, 6 options, 1 dissertation) and 2 oral examinations (one Internal and one with the External Examiners).

*Degree Examination taken in:* May/June

*Aims:* The teaching staff for Honours will endeavour to: (1) foster a thorough, accurate knowledge and considered application of the German language; (2) impart an in-depth knowledge of aspects of German language, literature and culture; (3) encourage students to work effectively and grow in their ability to take responsibility for their own learning; (4) enable students to acquire the necessary generic skills which will equip them as life-long learners outwith the University and which are both prized by employers and of benefit in a changing global society; (5) realise the potential for students to become

future leaders, teachers, and researchers; (6) stimulate and promote an enthusiasm for German and its study in an atmosphere conducive to the pursuit of scholarship.

*Honours Course Prescription:* Single Honours students take: Written German; Spoken German; the German Junior-Honours Language Project; the Oral-Skills Course; the German Dissertation; the German Core Texts 1 and 2 (Strand-A); and 6 of the following Strand-B options (three in 3H, three in 4H): Liaison Interpreting; Teaching English as a Foreign Language; Modern German Novel; Modern German Thought I: Habermas; Modern German Thought II: Freud & Jung; Faust II; German Novelle in the 19th Century; German Literature of the Late 19th Century; Wilhelm Meister; and possible further options from the Comparative Literature programme, where appropriate.

*Course Co-ordinator:* Mr Bernard Ashbrook

## HISPANIC STUDIES

### 226B PORTUGUESE 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 1pm.

*Requirements of entry:* This is a beginners course requiring no previous knowledge of Portuguese; knowledge of another foreign language is, however, an advantage.

*Excluded Courses:* Portuguese 1 (Language) (2KCU)

*Assessment:* Two language tests in the course of the year (15% of total); oral/comprehension test in semester 2 (15%). Final examination: Paper 1, language; Paper 2, literature and culture (35% each). Mid year exit: assessment will be based on the first language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course is designed to consolidate the student's abilities in written and spoken Portuguese, to introduce him/her to the literature of modern Portugal and Brazil, and to inform him/her of historical and cultural developments in all the Portuguese speaking countries.

*Course Co-ordinator:* Dr Luis Gomes

### 2KCU PORTUGUESE 1 (LANGUAGE)

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday at 1pm.

*Requirements of entry:* This is a beginners course requiring no previous knowledge of Portuguese; knowledge of another foreign language is, however, an advantage.

*Excluded Courses:* Portuguese 1 (226B)

*Assessment:* Two language tests in the course of the year (15% of total); oral/comprehension test in semester 2 (15%). Final examination: one language paper (70%). Mid year exit: assessment will be based on the first language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course is designed to enable the student both to communicate effectively in written and spoken Portuguese employing a broad range of tenses and structures, as well as to understand Portuguese in a variety of contexts and across a range of accents and vocabulary.

*Course Co-ordinator:* Dr Luis Gomes

### 380B SPANISH 1A

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 3pm. Two language classes per week (Wednesday, Friday); history (Thursday); literature lecture (Monday); literature tutorial (Tuesday).

*Requirements of entry:* Normally SCE Higher or equivalent - this may include residence in a Spanish-speaking country.

*Excluded Courses:* Spanish 1B (381B), Spanish 1B (Language) (2NHU), Spanish 1A (Language) (2JLU)

*Assessment:* Two class language tests in the course of the year (12.5% of total); two extended essays (12.5%). Final examination: Paper 1, language; Paper 2, literature and history (30% each). Oral examination (15%). Mid year exit: assessment will be based on the first language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course is designed to consolidate your abilities in written and spoken Spanish, to introduce you to the literature of modern Spain and Spanish-America, and to inform you of recent historical developments in Spain and Latin America.

*Course Co-ordinator:* Dr Karen Pena

### 2JLU SPANISH 1A (LANGUAGE)

*Credits:* 20

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Wednesday and Friday at 3pm.

*Requirements of entry:* Normally SCE Higher or equivalent - this may include residence in a Spanish-speaking country.

*Excluded Courses:* Spanish 1B (Language) (2NHU), Spanish 1B (381B), Spanish 1A (380B)

*Assessment:* Two class language tests in the course of the year (25% of total). Final examination: one language paper (60%). Oral examination (15%). Mid year exit: assessment will be based on the first class language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course is designed to consolidate your abilities in written and spoken Spanish. The syllabus is the language work of the Spanish 1A class offered in the Faculty of Arts (380B).

*Course Co-ordinator:* Dr Karen Pena

### 381B SPANISH 1B

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Semester 1: Monday 3pm, Tuesday 1pm, Thursday 3pm, Friday 1pm. Semester 2: Tuesday and Friday 1pm, Monday, Thursday and Friday at 3pm. Literature tutorial on Monday at 1pm in the second half of semester 2.

*Requirements of entry:* Normally some evidence of language learning, i.e. study of a foreign language, residence in a Spanish-speaking country or completion of Access course.

*Excluded Courses:* Spanish 1A (380B), Spanish 1A (Language) (2JLU), Spanish 1B (Language) (2NHU)

*Assessment:* Two language tests in the course of the year (12.5% of total), two extended course essays (12.5%). Final examination: Paper 1 - Language; Paper 2 - Language, Literature and History (30% each). Oral examination (15%). Mid year exit: assessment will be based on the first language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to reach a reasonable level of communicative competence in Spanish, both spoken and written, and an ability to read and understand the language in some depth; to provide an introduction to the literature and history of the Spanish-speaking world, through the study of various texts in Spanish and an examination of areas of contemporary experience in Spain and Latin America; to prepare students to continue Spanish to second level if they wish.

*Course Co-ordinator:* Prof Michael Gonzalez

### 2NHU SPANISH 1B (LANGUAGE)

*Credits:* 20 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Monday 3pm, Tuesday 1pm, Friday 1pm.

*Requirements of entry:* Normally some experience of language learning, i.e. study of a foreign language, residence in a Spanish-speaking country or completion of Access course.

*Excluded Courses:* Spanish 1A (380B), Spanish 1A (Language) (2JLU), Spanish 1B (381B)

*Assessment:* Two language tests in the course of the year (25% of total). Final examination: one language paper (60%). Oral examination (15%). Mid year exit: assessment will be based on the first language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To enable students to reach a reasonable level of communicative competence in Spanish, both spoken and written, and an ability to read and understand the language in some depth. The syllabus is the language-instruction component of the 1B course offered in the Faculty of Arts, (381B).

*Course Co-ordinator:* Prof Michael Gonzalez

### 7FLV SPANISH 2

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 2pm, Friday at 10am and one oral class to be arranged.

*Requirements of entry:* A pass in Spanish 1A (Grade D or above) or Spanish 1B (Grade C or above). Students entering from Spanish 1B may be required to complete a short bridging course. Students with a good pass at GCE A Level may also enter Spanish 2 directly.

*Assessment:* Language course assessment (11% of total); literature assignment (11%); option (16.5%); oral examination (16.5%). Final examination: Paper 1 - Language; Paper 2 - Literature/History/History of Language (45%). Mid year exit: assessment will be based on the first language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course will develop students' skills in written and spoken Spanish and extend their engagement with literature in the language. There will be a short course on the Society and Institutions of Catalonia in Semester 2. In addition, students may choose between a year-long course in the History of the Spanish language and a group-based History project.

*Course Co-ordinator:* Dr Brigida Pastor

### 7EPV SPANISH LANGUAGE 2

*Credits:* 20 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Tuesday and Friday at 2pm and oral class to be arranged.

*Requirements of entry:* A pass in Spanish 1A or Spanish 1A Language (Grade D or above) or Spanish 1B or Spanish 1B Language (Grade C or above). Students entering from Spanish 1B will be required to complete a short bridging course. Students with a good pass at GCE A Level may also enter Spanish 2 Language directly.

*Excluded Courses:* Spanish 2 (380C)

*Assessment:* Language course assessment (22% of total); oral examination (33%). Final examination: one language paper (45%). Mid year exit: assessment will be based on the first language test.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course will develop students' skills in written and spoken Spanish, extending the range of linguistic activities.

*Course Co-ordinator:* Dr Brigida Pastor

### 8VTW HISPANIC STUDIES 3

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Friday 9am - Spanish language class plus an oral class to be arranged. Students will select some additional courses from those available in the department.

*Requirements of entry:* Spanish 2 at grade D or above.

*Assessment:* Dependent on options chosen oral test and either examination or course assessment or mix of both.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To develop the students' language skills, written and spoken, in Spanish or Portuguese or Catalan. To extend the range of skills and knowledge of students through involvement in Honours level content courses.

*Course Co-ordinator:* Ms Helena Martin

### **2JLW HISPANIC STUDIES 3 (LANGUAGE)**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Two or three hours per week, depending on student selection of available options.

*Requirements of entry:* Spanish 2 or Spanish 2 (Language) at Grade D or above.

*Assessment:* Dependent on options chosen, written and oral examinations.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To develop the students' language skills, written and spoken, in Spanish or Portuguese or Catalan.

*Course Co-ordinator:* Ms Helena Martin

### **KHUH HISPANIC STUDIES 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 9am, 11am and 2pm and other times to be arranged.

*Requirements of entry:* Pass at Spanish Level 2 at C or above and residence during the preceeding year in a Spanish or Portuguese speaking country.

*Co-requisites:* none

*Excluded Courses:* none

*Aims:* To develop within each student a high level of communicative and expressive skill in the Spanish and Portuguese language (both written and oral), as well as high levels of competence in understanding both written and aural. To offer a range of options and courses that will a) extend the student's linguistic range and ability; b) provide an introduction to and understanding of a range of cultural expressions within the Spanish-speaking and Lusophone world, as well as some knowledge of its culture and history; c) to provide students with the opportunity to enhance and develop their self-learning and investigative skills through research-based activity; d) encourage and develop a broader critical understanding of those expressions both in particular and in a more general sense.

*Honours Course Prescription:* Students take:- Obligatory - Spanish language core course (30 credits), Portuguese core course (30 credits), Dissertation (30 credits); Optional Courses (at least one of which must be

Portuguese-based) - 5 in all, of which 3 in Junior Honours year and 2 in Senior Honours year. Options may be chosen from two distinct groups - Language-based and Literary/Cultural-Historical. Students must take at least one option from each of the two groups over the two year course. Students taking this course may start Portuguese in their Junior Honours year but also will be required to take a Portuguese-based option in their Senior Honours year. At least 25% of the course will be Portuguese or Portuguese-related.

*Course Co-ordinator:* Dr Paul Donnelly

### **KCAF SPANISH 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 9am, 11am and 2pm and other times to be arranged.

*Requirements of entry:* Pass at Spanish Level 2 at C or above and residence abroad in either a Spanish-speaking country or a country in which the other degree language is spoken (if the Other is a language subject)

*Co-requisites:* none

*Excluded Courses:* none

*Aims:* To develop within each student a high level of communicative and expressive skill in the Spanish language (both written and oral), as well as high levels of competence in understanding both written and aural. To offer a range of options and courses that will a) extend the student's linguistic range and ability; b) provide an introduction to and understanding of a range of cultural expressions within the Spanish-speaking world, as well as some knowledge of its culture and history; c) to provide students with the opportunity to enhance and develop their self-learning and investigative skills through research-based activity; d) encourage and develop a broader critical understanding of those expressions both in particular and in a more general sense.

*Honours Course Prescription:* Students take:- Obligatory - Spanish language core course: 30 credits (over 2 years), Optional Courses (these will normally be wholly Spanish-based) - 3 in all, normally 2 in Junior Honours and 1 in Senior Honours: 90 credits. Options may be chosen from two distinct groups - Language-based and Literary/Cultural-Historical. Students must take at least one option from each of the two groups over the two year course. Students of this course may take a Portuguese language course as one of their language-based options. A dissertation may also replace an option.

*Course Co-ordinator:* Dr Paul Donnelly

### **KBYH SPANISH 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 9am, 11am and 2pm and other times to be arranged.

*Requirements of entry:* Pass at Spanish Level 2 at C or above and residence during the preceeding year in a Spanish speaking country.

*Co-requisites:* none

*Excluded Courses:* none

*Aims:* To develop within each student a high level of communicative and expressive skill in the Spanish language (both written and oral), as well as high levels of competence in understanding both written and aural. To offer a range of options and courses that will a) extend the student's linguistic range and ability; b) provide an introduction to and understanding of a range of cultural expressions within the Spanish-speaking world, as well as some knowledge of its culture and history; c) to provide students with the opportunity to enhance and develop their self-learning and investigative skills through research-based activity; d) encourage and develop a broader critical understanding of those expressions both in particular and in a more general sense.

*Honours Course Prescription:* Students take:- Obligatory - Spanish language core course: 30 credits (over 2 years) and Dissertation: 30 credits, Optional Courses (these will normally be wholly Spanish-based) - 6 in all, normally 4 in Junior Honours and 2 in Senior Honours: 180 credits. Options may be chosen from two distinct groups - Language-based and Literary/Cultural-Historical. Students must take at least one option from each of the two groups over the two year course. Students of this course may take a Portuguese language course as one of their language-based options.

*Course Co-ordinator:* Dr Paul Donnelly

#### **KHVJ HISPANIC STUDIES 4H (SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 9am, 11am and 2pm and other times to be arranged.

*Requirements of entry:* Pass at Spanish Level 2 at C or above and residence during the preceeding year in a Spanish or Portuguese speaking country.

*Co-requisites:* none

*Excluded Courses:* none

*Aims:* To develop within each student a high level of communicative and expressive skill in the Spanish and Portuguese language (both written and oral), as well as high levels of competence in understanding both written and aural. To offer a range of options and courses that will a) extend the student's linguistic range and ability; b) provide an introduction to and understanding of a range of cultural expressions within the Spanish-speaking and Lusophone world, as well as some knowledge of its culture and history; c) to provide students with the opportunity to enhance and develop their self-learning and investigative skills through research-based activity; d) encourage and develop a broader critical understanding of those expressions both in particular and in a more general sense.

*Honours Course Prescription:* Students take:- Obligatory - Spanish language core course (30 credits), Portuguese core course (30 credits), Dissertation (30 credits); Optional Courses (at least one of which must be Portuguese-based) - 5 in all, of which 3 in Junior Honours year and 2 in Senior Honours year. Options may be chosen from two distinct groups - Language-based and Literary/Cultural-Historical. Students must take

at least one option from each of the two groups over the two year course. Students taking this course may start Portuguese in their Junior Honours year but also will be required to take a Portuguese-based option in their Senior Honours year. At least 25% of the course will be Portuguese or Portuguese-related.

*Course Co-ordinator:* Prof Michael Gonzalez

#### **KCBG SPANISH 4H (JOINT)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 9am, 11am and 2pm and other times to be arranged.

*Requirements of entry:* Pass at Spanish Level 2 at C or above and residence abroad in either a Spanish-speaking country or a country in which the other degree language is spoken (if the Other is a language subject)

*Co-requisites:* none

*Excluded Courses:* none

*Aims:* To develop within each student a high level of communicative and expressive skill in the Spanish language (both written and oral), as well as high levels of competence in understanding both written and aural. To offer a range of options and courses that will a) extend the student's linguistic range and ability; b) provide an introduction to and understanding of a range of cultural expressions within the Spanish-speaking world, as well as some knowledge of its culture and history; c) to provide students with the opportunity to enhance and develop their self-learning and investigative skills through research-based activity; d) encourage and develop a broader critical understanding of those expressions both in particular and in a more general sense.

*Honours Course Prescription:* Students take:- Obligatory - Spanish language core course: 30 credits (over 2 years), Optional Courses (these will normally be wholly Spanish-based) - 3 in all, normally 2 in Junior Honours and 1 in Senior Honours: 90 credits. Options may be chosen from two distinct groups - Language-based and Literary/Cultural-Historical. Students must take at least one option from each of the two groups over the two year course. Students of this course may take a Portuguese language course as one of their language-based options. A dissertation may also replace an option.

*Course Co-ordinator:* Prof Michael Gonzalez

#### **KBZJ SPANISH 4H (SINGLE)**

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 9am, 11am and 2pm and other times to be arranged.

*Requirements of entry:* Pass at Spanish Level 2 at C or above and residence during the preceeding year in a Spanish speaking country.

*Co-requisites:* none

*Excluded Courses:* none

*Aims:* To develop within each student a high level of communicative and expressive skill in the Spanish language (both written and oral), as well as high levels

of competence in understanding both written and oral. To offer a range of options and courses that will a) extend the student's linguistic range and ability; b) provide an introduction to and understanding of a range of cultural expressions within the Spanish-speaking world, as well as some knowledge of its culture and history; c) to provide students with the opportunity to enhance and develop their self-learning and investigative skills through research-based activity; d) encourage and develop a broader critical understanding of those expressions both in particular and in a more general sense.

*Honours Course Prescription:* Students take:- Obligatory - Spanish language core course: 30 credits (over 2 years) and Dissertation: 30 credits, Optional Courses (these will normally be wholly Spanish-based) - 6 in all, normally 4 in Junior Honours and 2 in Senior Honours: 180 credits. Options may be chosen from two distinct groups - Language-based and Literary/Cultural-Historical. Students must take at least one option from each of the two groups over the two year course. Students of this course may take a Portuguese language course as one of their language-based options.

*Course Co-ordinator:* Prof Michael Gonzalez

## ITALIAN

### 121B ITALIAN 1A

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Daily - 2.00 pm; plus possible other times to be arranged

*Requirements of entry:* At least grade D in SCE Higher Italian or equivalent

*Assessment:* Two 2-hour papers and an oral examination (75%); Continuous Assessment (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To consolidate and build upon students' existing knowledge of the Italian language, both practical and theoretical; to introduce students to contemporary Italy from a cultural and historical viewpoint: Literature (three novels); Modern Italian History; Culture and Society in Modern Italy; to introduce students to the critical analysis of ideas and arguments and to encourage them to study independently.

*Course Co-ordinator:* Miss Arabella Infantino

### 1B2B ITALIAN 1B

*Credits:* 40 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 2.00 pm; plus weekly tutorial and oral skills classes to be arranged. (There may be a 10.00 am alternative to the 2.00 pm class on Monday, Tuesday, and Thursday)

*Requirements of entry:* Evidence of linguistic ability (e.g. qualification in another foreign language). Otherwise, consult Department before enrolling.

*Assessment:* Two 2-hour papers and an oral examination (75%); Continuous assessment (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a thorough grounding for beginners in the basic grammatical structures of Italian, to develop practical communication skills (written and spoken) and to prepare students for reading and comprehension of literary texts; to introduce contemporary Italy from a historical and cultural viewpoint (Modern Italian History; Culture and Society in Modern Italy); to introduce students to the critical analysis of ideas and arguments and to encourage them to study independently.

*Course Co-ordinator:* Miss Arabella Infantino

## 2HKU ITALIAN LANGUAGE 1A

*Credits:* 20 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* 3 hours weekly, to be arranged (some at 2.00 pm).

*Requirements of entry:* At least grade D in SCE Higher Italian or equivalent

*Assessment:* One 2-hour paper and oral examination (75%); Continuous Assessment (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To consolidate and build upon students' existing knowledge of the Italian language, both practical and theoretical.

*Course Co-ordinator:* Miss Arabella Infantino

## 1C2B ITALIAN LANGUAGE 1B

*Credits:* 20 *Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday at 2.00 pm (or possible alternative at 10.00 am) plus times to be arranged.

*Requirements of entry:* Evidence of linguistic ability (e.g. qualification in another foreign language). Otherwise, consult Department before enrolling.

*Assessment:* One 2-hour paper and oral examination (75%); Continuous assessment (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To provide a thorough grounding for beginners in the basic grammatical structures of Italian and to develop practical communication skills (written and spoken).

*Course Co-ordinator:* Miss Arabella Infantino

## 7FJV ITALIAN 2

*Credits:* 40 *Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Mon, Tues, Wed, Fri at 10.00, and Thur at 4.00

*Requirements of entry:* Italian 1A grade D or Italian 1B normally at grade B plus extra assignments.

*Assessment:* Two 2-hour papers and an oral examination (total 66.66%); Coursework (33.33%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To build on the grammatical overview and practical language work of Level 1 in order to develop in depth and in breadth students' proficiency in Italian. To introduce students to literary texts representing different periods and genres and to help students develop interpretative and critical skills through detailed study of these texts. To introduce students to a range of Italian films representing different themes in Italian culture and different cinematic approaches. To encourage students to think critically and acquire skills of analysis and argument, and to grow in intellectual maturity and develop the ability to work independently.

*Course Co-ordinator:* Dr Eanna O'Ceallachain

### 7EFV ITALIAN LANGUAGE 2

*Credits:* 20

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* 3 hours weekly, times to be arranged (some at 10.00 am).

*Requirements of entry:* Italian Language 1A grade D or Italian Language 1B normally grade B plus extra assignments.

*Assessment:* One 2-hour paper and oral examination (75%); Continuous assessment (25%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To build on the language work of level 1 (grammar and practical skills) to develop in depth and breadth students' proficiency in Italian.

*Course Co-ordinator:* Dr Eanna O'Ceallachain

### 121F ITALIAN 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 11.00 am and other times to be arranged.

*Requirements of entry:* Grade C in Italian Level 2 coursework and examination; year abroad in Italy

*Co-requisites:* none

*Excluded Courses:* none

*Assessment:* Coursework (33.3%), Final examination (66.6%). Examined at end of Senior Honours. Two papers in written language; Two-part oral exam; 4 written option exams.

*Degree Examination taken in:* May/June

*Aims:* To develop students' proficiency in Italian to the point of fluency (written and spoken); to provide a range of Italian cultural and literary options covering different periods, topics and genres, allowing students to build up specialist knowledge in their chosen areas; to ensure that students think critically and communicate articulately in Italian and in English; that they are equipped with skills of independent research and analysis; that

they develop a mature, responsible approach to a range of tasks.

*Honours Course Prescription:* Joint Honours students take: Written Italian; Spoken Italian; and 4 of the following Options (two in 3H, two in 4H): The Resistance to Fascism, 1943-45; Italian Modernism; Modern Italian Poetry; Italian Translation Methodology; Women in Modern Italy; Italian Twentieth Century Writing: Texts and Contexts; Eighteenth Century Italian Theatre; Dissertation.

*Course Co-ordinator:* Dr Penelope Morris

### 121H ITALIAN 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 11.00 am and other times to be arranged.

*Requirements of entry:* Grade C in Italian Level 2 coursework and examination; year abroad in Italy

*Co-requisites:* none

*Excluded Courses:* none

*Assessment:* For written papers: coursework (33.3%), Final examination (66.6%). Examined at end of Senior Honours. Two papers in written language; Two-part oral exam; Eight written option exams. In addition, Dissertation and two Language Project submissions.

*Degree Examination taken in:* May/June

*Aims:* To develop students' proficiency in Italian to the point of fluency (written and spoken); to provide a range of Italian cultural and literary options covering different periods, topics and genres, allowing students to build up specialist knowledge in their chosen areas; to ensure that students think critically and communicate articulately in Italian and in English; that they are equipped with skills of independent research and analysis; that they develop a mature, responsible approach to a range of tasks.

*Honours Course Prescription:* Single Honours students take: Written Italian; Spoken Italian; Italian Junior Language Project; Italian Senior Language Project, Italian Dissertation; and 8 of the following courses (four in 3H, four in 4H): The Resistance to Fascism, 1943-45; Italian Modernism; Modern Italian Poetry; Italian Translation Methodology; Women in Modern Italy; Italian Twentieth Century Writing: Texts and Contexts; Plotting the Linguistic Map of Europe; Eighteenth Century Italian Theatre.

*Course Co-ordinator:* Dr Penelope Morris

### 121W ITALIAN LEVEL 3

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Language: 3 hours weekly to be arranged, including some at 11:00, Options 2 hours weekly, depending on Option choice.

*Requirements of entry:* Normally Grade C or better in Italian 2 (full 60 credits). Students with other qualifications in Italian may be considered for admission at the discretion of the Head of Department/Section.



*Assessment:* Examination 66.66%, Coursework 33.33%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To develop in depth and breadth students' existing proficiency in spoken and written Italian; to allow students to gain a detailed understanding of certain texts and topics chosen from the available Italian Honours Options; to equip students to think critically and develop skills of analysis and argument to a high level; to equip them with skills of independent study and research, encouraging them to develop a mature, responsible approach to a range of tasks.

*Course Co-ordinator:* Dr Penelope Morris

## 2HKW ITALIAN LEVEL 3 LANGUAGE

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* 3 hours weekly to be arranged, including some at 11.00

*Requirements of entry:* Normally Grade C or better in Italian 2 (full 60 credits) or Italian Language 2 (30 credits). Students with other qualifications in Italian may be considered for admission at the discretion of the Head of Department/Section.

*Assessment:* Examination 66.66%; Coursework 33.33%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To develop in depth and breadth students existing proficiency in spoken and written Italian; to equip them with skills of independent study, encouraging them to develop a mature, responsible approach to a range of tasks.

*Course Co-ordinator:* Dr Penelope Morris

## 121G ITALIAN 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 11.00 am and other times to be arranged.

*Requirements of entry:* Students should have been admitted to Italian 3H (Joint) for the previous session and should have completed 3H coursework.

*Co-requisites:* none

*Excluded Courses:* none

*Assessment:* Coursework (33.3%), Final examination (66.6%). Examined at end of Senior Honours. Two papers in written language; Two-part oral exam; Four written option exams.

*Degree Examination taken in:* May/June

*Aims:* To develop students' proficiency in Italian to the point of fluency (written and spoken); to provide a range of Italian cultural and literary options covering different periods, topics and genres, allowing students to build up specialist knowledge in their chosen areas; to ensure that students think critically and communicate articulately in Italian and in English; that they are equipped with skills of independent research and analysis; that

they develop a mature, responsible approach to a range of tasks.

*Honours Course Prescription:* Joint Honours students take: Written Italian; Spoken Italian; and 4 of the following Options (two in 3H, two in 4H): The Resistance to Fascism, 1943-45; Italian Modernism; Modern Italian Poetry; Italian Translation Methodology; Women in Modern Italy; Italian Twentieth Century Writing: Texts and Contexts; Eighteenth Century Italian Theatre; Dissertation.

*Course Co-ordinator:* Dr Penelope Morris

## 121J ITALIAN 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 11.00 am and other times to be arranged.

*Requirements of entry:* Students should have been admitted to Italian 3H (Single) for the previous session and should have completed 3H coursework.

*Co-requisites:* none

*Excluded Courses:* none

*Assessment:* For written papers: Coursework (33.3%), Final examination (66.6%). Examined at end of Senior Honours. Two papers in written language; Two-part oral exam; Eight written option exams. In addition, Dissertation and two Language Project submissions.

*Degree Examination taken in:* May/June

*Aims:* To develop students' proficiency in Italian to the point of fluency (written and spoken); to provide a range of Italian cultural and literary options covering different periods, topics and genres, allowing students to build up specialist knowledge in their chosen areas; to ensure that students think critically and communicate articulately in Italian and in English; that they are equipped with skills of independent research and analysis; that they develop a mature, responsible approach to a range of tasks.

*Honours Course Prescription:* Single Honours students take: Written Italian; Spoken Italian; Italian Junior Language Project; Italian Senior Language Project, Italian Dissertation; and 8 of the following courses (four in 3H, four in 4H): The Resistance to Fascism, 1943-45; Italian Modernism; Modern Italian Poetry; Italian Translation Methodology; Women in Modern Italy; Italian Twentieth Century Writing: Texts and Contexts; Plotting the Linguistic Map of Europe; Eighteenth Century Italian Theatre.

*Course Co-ordinator:* Dr Penelope Morris

## SLAVONIC STUDIES

### 1KCB CZECH 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Normally five hours weekly at times to be arranged

*Requirements of entry:* Normally the standard of SQA Higher or its equivalent in either a classical or a modern foreign language.

*Assessment:* There will be: a) 1 two-hour written exam to be held at the end of the year which will test grammar, vocabulary, translation and comprehension skills (50% of the final mark); b) one writing project and/or class tests (up to 10 in number) for formal assessment throughout the year, depending on size of groups (25% of the final mark); c) a short oral exam (c. 15 minutes) at the end of the year (25% of the final mark).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) a sound basic knowledge of the Czech language and the more important fundamentals of Czech grammar; (2) basic speaking, writing and listening skills in Czech; (3) an active vocabulary of c.1,000 words and a passive vocabulary of c.2,000 words; (4) access to a range of learning resources for the purpose of studying Czech language and culture.

*Course Co-ordinator:* Mrs Ilona Klemm

### **1KFB POLISH 1**

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Normally five hours weekly at times to be arranged.

*Requirements of entry:* Normally the standard of SQA Higher or its equivalent in either a classical or a modern foreign language.

*Assessment:* There will be: a) 1 two-hour written exam to be held at the end of the year which will test grammar, vocabulary, translation and comprehension skills (50% of the final mark); b) one writing project and/or class tests (up to 10 in number) for formal assessment throughout the year, depending on size of groups (25% of the final mark); c) a short oral exam (c. 15 minutes) at the end of the year (25% of the final mark).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with: (1) a sound basic knowledge of the Polish language and the more important fundamentals of Polish grammar; (2) basic speaking, writing and listening skills in Polish; (3) an active vocabulary of c.1,000 words and a passive vocabulary of c.2,000 words; (4) access to a range of learning resources for the purpose of studying Polish language and culture.

*Course Co-ordinator:* Dr Elwira Grossman

### **1K2B RUSSIAN 1**

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday and Thursday at 1.00 pm with one further class to be arranged.

*Requirements of entry:* Normally the standard of SQA Higher or its equivalent in either a classical or a modern foreign language.

*Assessment:* There will be: a) 1 two-hour written exam to be held at the end of the year which will test grammar, vocabulary, translation and comprehension skills (50% of the final mark); b) one writing project and class tests (up to 10 in number) for formal assessment throughout the year, depending on size of groups (25% of the final mark); c) a short oral exam (c. 15 minutes) at the end of the year (25% of the final mark).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) a sound basic knowledge of the Russian language and the more important fundamentals of Russian grammar; (2) basic translation, speaking, writing and listening skills in Russian; (3) an active vocabulary of c.1,000 words and a passive vocabulary of 2-3,000 words; (4) access to a range of learning resources for the purpose of studying Russian language and culture.

*Course Co-ordinator:* Dr Margaret Tejerizo

### **OSLU SLAVONIC STUDIES 1B: (POST)STALINISM AND CINEMA**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Mondays, Tuesdays and Thursdays at 2.00 p.m.

*Assessment:* 1 Class Essay (33% of the final mark); End-of-course Examination (2 hours): 66% of the final mark.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to: 1: provide students with a broad knowledge of the major achievements in Czech, Polish and Russian cinema from the 1960s to the present and to relate them to the cultural and political developments in the post-war period; 2: impart to students an in-depth knowledge of selected directors and their major works; 3: develop students' ability to analyse cinematic works; 4: develop students' ability to work effectively, and to supplement their acquisition of generic and transferable skills which will be of use in later life.

*Course Co-ordinator:* Dr Andrei Rogatchevski

### **OSKU SLAVONIC STUDIES LEVEL 1A: WRITERS AND COMMUNISM**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Mondays, Tuesdays, and Thursdays at 2 p.m.

*Assessment:* 1 Essay (33% of the final mark); End-of-course examination (2 hours): 66% of the final mark.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course is intended to: (1) provide students with a broad knowledge of developments in Czech, Polish and Russian literature, politics and society under

Communist Party rule; (2) impart to students an in-depth knowledge of selected key authors and works of Czech, Polish and Russian literature (in English translation) from the period, particularly in relation to the doctrine of Socialist Realism; (3) develop students' ability to work effectively as well as to further the acquisition of generic transferable skills which will be of value in later life.

*Course Co-ordinator:* Dr Jan Culik

## 7FYV CZECH 2

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Normally four hours weekly at times to be arranged

*Requirements of entry:* Grade D or better in Czech 1

*Assessment:* There will be: a) 1 two-hour written exam to be held at the end of the year which will test grammar, vocabulary, translation and comprehension skills (50%); b) one writing project and/or class tests (up to 10 in number) for formal assessment throughout the year, depending on size of groups (25%); c) a short oral exam (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) practical competence in the Czech language; (2) translation and comprehension skills; (3) free composition skills in Czech; (4) oral communication skills in Czech.

*Course Co-ordinator:* Mrs Ilona Klemm

## 7GBV POLISH 2

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Normally four hours weekly at times to be arranged.

*Requirements of entry:* Grade D or better in Polish 1

*Assessment:* There will be: a) 1 two-hour written exam to be held at the end of the year which will test grammar, vocabulary, translation and comprehension skills (50%); b) one writing project and/or class tests (up to 10 in number) for formal assessment throughout the year, depending on size of groups (25%); c) a short oral exam (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) practical competence in the Polish language; (2) translation and comprehension skills; (3) free composition skills in Polish; (4) oral communication skills in Polish.

*Course Co-ordinator:* Dr John Bates

## 7GDV RUSSIAN 2

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Normally Monday, Tuesday, Thursday and Friday at 3.00 pm.

*Requirements of entry:* Grade D or better in Russian 1 or a good pass at A-level or SQA Higher Russian (or equivalent)

*Assessment:* There will be: a) 1 two-hour written exam to be held at the end of the year which will test grammar, vocabulary, translation and comprehension skills (50%); b) one writing project and/or class tests (up to 10 in number) for formal assessment throughout the year, depending on size of groups (25%); c) a short oral exam (25%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with: (1) practical competence in the Russian language; (2) translation and comprehension skills; (3) free composition skills in Russian; (4) oral communication skills in Russian.

*Course Co-ordinator:* Dr Andrei Rogatchevski

## OSMV SLAVONIC STUDIES 2A: LITERATURE IN THE AGE OF IMPERIALISM

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Mondays, Tuesdays and Thursdays at 4.00 p.m.

*Requirements of entry:* Students can enter this course directly.

*Assessment:* 1 Class Essay (c. 2,000 words) - 33.33% of the final mark; End-of-course Examination (2 hours) - 66.67% of the final mark.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* This course is intended to: 1: provide students with a broad knowledge of developments in Czech, Polish and Russian literature, politics and society in the nineteenth century; 2: impart to students an in-depth knowledge of selected key authors and works of Czech, Polish and Russian literature (in English translation) from the period; 3: develop students' ability to analyse literary works; 4: increase students' ability to work effectively, and to supplement their acquisition of generic and transferable skills which will be of value in later life.

*Course Co-ordinator:* Dr Margaret Tejerizo

## OSHV SLAVONIC STUDIES 2B: CULTURE IN THE AGE OF GLOBALIZATION

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Mondays, Tuesdays, and Thursdays at 4.00 p.m.

*Requirements of entry:* Any student having satisfactorily completed Level 1 courses at the University may be

admitted to this course at the discretion of the Convener of the Slavonic Studies Section of the School of Modern Languages and Cultures.

*Co-requisites:* None

*Assessment:* 1 Class Essay (c. 2,000 words) - 33.33% of the final mark; End-of-course Examination (2 hours) - 66.67% of the final mark.

*Aims:* This course is intended to: provide students with a broad knowledge of developments in Czech, Polish and Russian culture, politics and society after 1989; impart to students an in-depth knowledge of selected Czech, Polish and Russian cultural phenomena (in English translation) from the period; develop students' ability to analyse works of literature, cinema and media; increase students' ability to work effectively, as well as to enhance their acquisition of generic and transferable skills which will be of value in later life.

*Course Co-ordinator:* Dr Elwira Grossman

### 111D CZECH 3

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Five hours per week at times to be arranged.

*Requirements of entry:* Grade D or better in Czech 2

*Assessment:* Students should note that a system of mixed-mode assessment operates in Czech 3 and consists of a language project, a two-hour end of course exam, an oral exam and three literature projects.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) a thorough and accurate knowledge of the Czech language; (2) advanced translation skills; (3) writing skills in Czech; (4) oral communication in Czech; (5) a sound knowledge of several short works of Czech literature across the three genres (poetry, short fiction and drama).

*Course Co-ordinator:* Mrs Ilona Klemm

### 111F CZECH 3H (JOINT)

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Seven hours per week at times to be arranged.

*Requirements of entry:* Grade D or better in Czech 2.

*Assessment:* A combination of course assessment and examinations normally taken at the end of 4H.

*Degree Examination taken in:* May/June

*Aims:* This course aims to: (1) provide students with a thorough knowledge of modern standard Czech; (2) develop translation skills, as well as the skills of aural, oral and written communication in Czech to a very high level; (3) impart to students an in-depth knowledge of Czech literature, history and culture, especially as regards selected works of literature of the nineteenth and twentieth centuries and the main literary trends and movements of those periods; with considerable attention

being paid to older periods of Czech history, when significant cultural achievements took place; (4) increase students' ability to work effectively, as well as to further their acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* All of: Translation from Czech into English; Translation from English into Czech and Essay in Czech; Early Czech Literature; Modern Czech Literature; Oral in Czech; and options to the value of 30 credits.

*Course Co-ordinator:* Dr Jan Culik

### 2HEW CZECH LANGUAGE 3

*Credits:* 30 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Normally three hours per week at times to be arranged

*Requirements of entry:* Grade D or better in Czech Language 2

*Assessment:* Students should note that a system of mixed-mode assessment operates in Czech Language 3. The End-of-Course Examination consists of two two-hour written papers (Paper 1 Translation from and into Czech; Paper 2 Essay in Czech; an oral examination and a Dissertation/Language Project. The oral examination is weighted at the equivalent of half a paper and the Dissertation as the equivalent of one paper.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) a thorough and accurate knowledge of the Czech language; (2) advanced translation skills; (3) writing skills in Czech; (4) oral communication in Czech.

*Course Co-ordinator:* Mrs Ilona Klemm

### 123D POLISH 3

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Normally three hours weekly at times to be arranged.

*Requirements of entry:* Grade D or better in Polish 2

*Assessment:* Students should note that a system of mixed-mode assessment operates in Polish 3 and consists of a language project, a two-hour end of course exam, an oral exam and three literature projects.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) a thorough and accurate knowledge of the Polish language; (2) advanced translation skills; writing skills in Polish; (4) oral communication in Polish; (5) a sound knowledge of several short works of Polish literature across the three genres (poetry, short fiction, drama).

*Course Co-ordinator:* Dr Elwira Grossman

### 123F POLISH 3H (JOINT)

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Seven hours per week at times to be arranged.

*Requirements of entry:* Grade D or better in Polish 2

*Assessment:* A combination of course assessment and examinations normally taken at the end of 4H.

*Degree Examination taken in:* May/June

*Aims:* This course is intended to (1) provide students with a thorough knowledge of modern standard Polish; (2) develop translation skills, as well as the skills of oral and written communication in Polish to a very high level; (3) impart to students an in-depth knowledge of Polish literature and culture, especially as regards selected works of literature of the nineteenth and twentieth centuries and the main literary trends and movements of those periods, with considerable attention being given to the early period of Polish history; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* All of: Translation from Polish into English; Translation from English into Polish and Essay in Polish; Polish Literature from the Renaissance to the Twentieth Century; Twentieth-Century Polish Literature; Oral in Polish; and options to the value of 30 credits.

*Course Co-ordinator:* Dr John Bates

## 2JFW POLISH LANGUAGE 3

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Normally three hours weekly at times to be arranged.

*Requirements of entry:* Grade D or better in Polish 2 or Polish Language 2

*Assessment:* Students should note that a mixed-mode assessment operates in Polish Language 3. The End-of-Course Examination consists of two two-hour written papers; an oral examination. Polish Language 3 is assessed in four ways, each weighted in at 50 marks, as follows: Paper 1 (Writing in Polish); Paper 2 (translation into English); oral examination; Dissertation/Language Project.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to provide students with (1) a thorough and accurate knowledge of the Polish language; (2) advanced translation skills; (3) writing skills in Polish; (4) oral communication in Polish.

*Course Co-ordinator:* Dr Elwira Grossman

## 124D RUSSIAN 3

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Normally three hours per week at times to be arranged.

*Requirements of entry:* Grade D or better in Russian 2

*Assessment:* Students should note that a system of mixed-mode assessment operates in Russian 3 and consists of a language project, a two-hour end of course exam, an oral exam and three literature projects.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to (1) provide students with a thorough knowledge of modern standard Russian; (2) develop translation skills, as well as the skills of oral and written communication in Russian to a high level; (3) provide students with a sound knowledge of several short works of Russian literature across the three genres (poetry, drama and shorter fiction); (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Course Co-ordinator:* Dr Andrei Rogatchevski

## 124F RUSSIAN 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 11.00 am and at other times to be arranged. Lecture, tutorial, language laboratory, video project.

*Requirements of entry:* Grade D or better in Russian 2

*Assessment:* A combination of course assessment and examinations normally taken at the end of 4H.

*Degree Examination taken in:* May/June

*Aims:* This course is intended to (1) provide students with a thorough knowledge of modern standard Russian; (2) develop translation skills, as well as the skills of oral and written communication in Russian to a very high level; (3) impart to students an in-depth knowledge of Russian literature and culture, especially as regards selected works of literature of the nineteenth and twentieth centuries and the main literary trends and movements of those periods; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* All of: Translation from Russian into English; Translation from English into Russian and Essay in Russian; The Russian Novel; Russian Poetry, Drama and Shorter Fiction; Oral Examination; and options to the value of 30 credits.

*Course Co-ordinator:* Dr Andrei Rogatchevski

## 2JJW RUSSIAN LANGUAGE 3

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Normally three hours weekly at times to be arranged

*Requirements of entry:* Grade D or better in Russian 2

*Assessment:* Students should note that a system of mixed-mode assessment operates in Russian Language 3. The End-of-Course examination consists of two written papers and an oral examination. Russian Language 3 is assessed in four ways, each weighted at 50 marks as follows: Paper 1 (Writing in Russian); Paper

2 (Translation into English); Oral Examination; Language Project.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course is intended to (1) provide students with a thorough knowledge of modern standard Russian; (2) develop translation skills, as well as the skills of oral and written communication in Russian to a high level; (3) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Course Co-ordinator:* Dr Andrei Rogatchevski

### **425H SLAVONIC AND EAST EUROPEAN STUDIES 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be arranged

*Requirements of entry:* Students enrolling for this degree are normally required to be qualified for admission into Honours in at least one of the following subjects: Czech, Polish or Russian (For further information on the precise requirements students should consult the appropriate Departmental handouts). In addition students are normally required to have two passes at Grade D or better in Level 1 or Level 2 classes in one or more of the following: Philosophy, History, Economic History, Politics, Political Economy, Sociology, Education, Industrial Relations, Management. In exceptional circumstances it may be possible for students who do not meet in full all the above requirements to be admitted to the course with the approval of the Convener of the Slavonic Studies Section of the School of Modern Languages and Cultures.

*Assessment:* In the case of one-year options from Groups IC, II and III that are assessed by degree examination, students normally sit that examination in the same year as the option is taken, ie options completed in Junior Honours are normally examined at the end of the Junior Honours year, and options completed in the Senior Honours year are examined at the end of the Senior Honours year. Where, however, a student is taking two main languages, the following arrangements apply: a) a student may divide the year abroad between the two countries relevant to the languages studied; b) a student may spend the year abroad in one country and spend a summer in the second country, commencing the period of residence abroad after examinations taken in Junior Honours have been completed; c) where neither of the above arrangements is acceptable to the Departments concerned, a student will complete the second period of residence abroad in the third term of the Junior Honours year and will take all degree examination papers at the end of the Senior Honours year. Most options are assessed by means of a single three-hour degree examination.

*Degree Examination taken in:* May/June

*Aims:* This course is intended to: (1) provide students with a thorough knowledge of at least one of the languages of Central and Eastern Europe and, optionally, knowledge of a second such language; (2) impart to stu-

dents an in-depth knowledge of aspects of the literature, culture, history, politics and economics of the countries associated with their principal language of study; (3) acquaint students with aspects of the literature, culture, history, politics and economics of the countries of Central and Eastern Europe; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* There are three groups of options as follows: 1. Language; 2. Literature and the Arts; and 3. History, Politics, Economics, Society. Candidates take options, which must include at least two from each group, to the value of 240 credits over the Junior Honours and Senior Honours years and this includes an oral examination. All candidates must take at least one option in Czech, Polish or Russian Language from Group 1. Option choices must be approved by the Convener of the Slavonic Studies section. Students must include a Dissertation for ONE of the options taken in the Junior Honours year. The Dissertation will have the same weight as the option it replaces. The topic for the Dissertation must be approved by the Convener of the Slavonic Studies section and by the Head of the Department (or his or her representative) responsible for the supervision of the Dissertation. The Dissertation will normally be written in English and will be 8,000-10,000 words long, but in appropriate circumstances and with the approval of the Convener of the Slavonic Studies section, the Dissertation may be written in Czech, German, Polish or Russian, in which case it will be 4,000-5,000 words long. The Dissertation must be handed in by 5 pm on the Monday of the second week of Semester 2 of the Senior Honours year.

*Course Co-ordinator:* Dr John Bates

### **7DPF SLAVONIC STUDIES 3H (COMBINED)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be arranged.

*Requirements of entry:* Grade D or better in any three courses at Level 1 and 2. With the approval of the Convener of the Slavonic Studies section, students will be able to substitute up to two courses taken in a cognate subject (e.g. English Literature or Scottish Literature) for Slavonic Studies courses at Level 1 and 2.

*Assessment:* All comparative options are examined by course assessment only. Cultural, language, and political and economic options are usually assessed by degree examination and students normally sit that examination in the same year as the option is taken, i.e. options completed in Junior Honours are normally examined at the end of the Junior Honours year, and options completed in the Senior Honours year are examined at the end of the Senior Honours year.

*Degree Examination taken in:* May/June

*Aims:* This course is intended to: (1) impart to students an advanced knowledge of comparative aspects of developments in literature, culture, history and/or politics in at least two of the countries of Central and Eastern

Europe; (2) acquaint students with aspects of the literatures, culture, history, politics and economics of Central and Eastern Europe via English-language sources; (3) optionally, to provide students with language instruction at an appropriate level in one or two of the Slavonic languages; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* Students will normally take 60 credits worth of options each year. Students may select from the following four groups of options: I: Comparative Options: Czech, Polish and Russian Women's Writing in English Translation, The Mass Media of Central and Eastern Europe (15 credits), Further Issues Concerning the Mass Media (15 credits), Slavonic Drama (15 credits), Holocaust Literature (15 credits). II: Cultural Options: Contemporary Czech Cinema, Polish Literature in English Translation from the Renaissance to the Twentieth Century, Contemporary Polish Cinema, The Russian Novel in English Translation, Censorship in Western Culture, History of the Czechs and Slovaks, The Lost Empire: Byzantium and the Slavs 800-1600 (taught jointly with the Department of Medieval History), Russian Cinema; Domesticating the Dictators: Women's Writing under Franco and Stalin. III: Language Options: Subsidiary Czech Language (Beginners), Subsidiary Czech Language (Intermediate), Subsidiary Polish Language (Beginners), Subsidiary Polish Language (Intermediate), Subsidiary Russian Language (Beginners), Subsidiary Russian Language (Intermediate). IV: Political and Economic Options (taught by or for the Department of Central and East European Studies): An Economic and Social History of Central and Eastern Europe 1918-1989, Cultural Politics and Social Change in Post-Soviet Russia, Civil Society and the State in East Central Europe; Statehood, Nationality, Identity: The Baltic States since 1918; Post-Soviet Russia: Renegotiating Global and Local Identities. Students are required to take a minimum of 30 credits from Group I; a maximum of 60 credits from Group III and a maximum of 60 credits from Group IV. Options are normally taught on a yearly basis. The Options are usually each rated at 30 credits except for those options in Group II or where indicated. All curricula must be approved by the Section Convener. Students may substitute a Dissertation of 8,000-10,000 words for ONE of the options taken in Junior Honours year. The dissertation will be rated at 15 credits. The Dissertation must be handed in by the end of Week 1 of Semester 2 of the Senior Honours year.

*Course Co-ordinator:* Dr John Bates

### 111G CZECH 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Seven hours per week at times to be arranged.

*Requirements of entry:* Grade D or better in Czech 2.

*Assessment:* Six papers in 4H year plus an oral examination in Czech. Papers 1, 2, 22, 23, 58, 17, 18 and 30 are examined by a single three-hour written examination. Papers 21, 31 and 42 are assessed by course work

only. The oral examination (20 minutes) is conducted and assessed by the Czech External Examiner.

*Degree Examination taken in:* May/June

*Aims:* This course aims to: (1) provide students with a thorough knowledge of modern standard Czech; (2) develop translation skills, as well as the skills of aural, oral and written communication in Czech to a very high level; (3) impart to students an in-depth knowledge of Czech literature, history and culture, especially as regards selected works of literature of the nineteenth and twentieth centuries and the main literary trends and movements of those periods; with considerable attention being paid to older periods of Czech history, when significant cultural achievements took place; (4) increase students' ability to work effectively, as well as to further their acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* All of Translation from Czech; Translation into Czech and Essay into Czech; Early Czech Literature with Prescribed Texts; Modern Czech Literature with Prescribed Texts; History of the Czechs and Slovaks; Oral Examination; one from: Comparative Slavonic Philology; Subsidiary Polish Language; Subsidiary Russian Language; Medieval Czech Literature; Contemporary Czech Cinema; The Mass Media in Central and Eastern Europe.

*Course Co-ordinator:* Dr Jan Culik

### 123G POLISH 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Seven hours per week at times to be arranged.

*Requirements of entry:* Grade D or better in Polish 2

*Assessment:* Six papers plus oral examination in Polish

*Degree Examination taken in:* May/June

*Aims:* This course is intended to (1) provide students with a thorough knowledge of modern standard Polish; (2) develop translation skills, as well as the skills of oral and written communication in Polish to a very high level; (3) impart to students an in-depth knowledge of Polish literature and culture, especially as regards selected works of literature of the nineteenth and twentieth centuries and the main literary trends and movements of those periods, with considerable attention being given to the early period of Polish history; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* All of the below over a two-year cycle: Translation from Polish; Translation into Polish and Essay in Polish; Polish Literature 1795-1918; Polish Literature 1918-1981; Polish History Thought and Culture 966-1989 oral examination and one of Post-War Polish Theatre; Comparative Slavonic Philology; Subsidiary Czech Languages; Subsidiary Russian Language; Post-War Polish Censorship; Contemporary Polish Cinema; Polish Literature 1386-1815; The Mass Media in Central and Eastern Europe.

*Course Co-ordinator:* Dr John Bates

### 124G RUSSIAN 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Daily at 11.00 am and at other times to be arranged. Lecture, tutorial, language laboratory, video project.

*Requirements of entry:* Grade D or better in Russian 2

*Assessment:* Six papers in 4H year plus oral examination in Russian

*Degree Examination taken in:* May/June

*Aims:* This course is intended to (1) provide students with a thorough knowledge of modern standard Russian; (2) develop translation skills, as well as the skills of oral and written communication in Russian to a very high level; (3) impart to students an in-depth knowledge of Russian literature and culture, especially as regards selected works of literature of the nineteenth and twentieth centuries and the main literary trends and movements of those periods; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* All of: Translation from Russian; Translation into Russian and Essay in Russian; Nineteenth-Century Russian Literature; Twentieth-Century Russian Literature; Oral Examination; and any TWO of Language Laboratory Test; Origin and Development of the Russian Literary Language; and one of Russian Authors; Dostoevskii; The Russian Short Story from Karamazin to 1930; The Russian Language in the Twentieth Century; Subsidiary Czech Language; Subsidiary Polish Language; Russian Women's Writing; The Mass Media in Central and Eastern Europe.

*Course Co-ordinator:* Dr Andrei Rogatchevski

### 425J SLAVONIC AND EAST EUROPEAN STUDIES 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be arranged

*Requirements of entry:* Students enrolling for this degree are normally required to be qualified for admission into Honours in at least one of the following subjects: Czech, Polish or Russian [For further information on the precise requirements students should consult the appropriate Departmental handouts). In addition students are normally required to have two passes at Grade D or better in Level 1 or Level 2 classes in one or more of the following: Philosophy, History, Economic History, Politics, Political Economy, Sociology, Education, Industrial Relations, Management. In exceptional circumstances it may be possible for students who do not meet in full all the above requirements to be admitted to the course with the approval of the Head of the Department of Slavonic Studies.

*Assessment:* In the case of one-year options from Groups IC, II and III that are assessed by degree examination, students normally sit that examination in the same year as the option is taken, ie options completed in

Junior Honours are normally examined at the end of the Junior Honours year, and options completed in the Senior Honours year are examined at the end of the Senior Honours year. Where, however, a student is taking two main languages, the following arrangements apply: a) a student may divide the year abroad between the two countries relevant to the languages studied; b) a student may spend the year abroad in one country and spend a summer in the second country, commencing the period of residence abroad after examinations taken in Junior Honours have been completed; c) where neither of the above arrangements is acceptable to the Departments concerned, a student will complete the second period of residence abroad in the third term of the Junior Honours year and will take all degree examination papers at the end of the Senior Honours year. Most options are assessed by means of a single three-hour degree examination.

*Degree Examination taken in:* May/June

*Aims:* This course is intended to: (1) provide students with a thorough knowledge of at least one of the languages of Central and Eastern Europe and, optionally, knowledge of a second such language; (2) impart to students an in-depth knowledge of aspects of the literature, culture, history, politics and economics of the countries associated with their principal language of study; (3) acquaint students with aspects of the literature, culture, history, politics and economics of the countries of Central and Eastern Europe; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* There are three groups of subjects, as follows: 1. Language; 2. Literature and the Arts; and 3. History, Politics, Economics, Society. Candidates take ten papers, which must include at least two from each group. Additionally to the ten papers all students take an oral examination; this counts as the equivalent of a full paper, ie as one-eleventh of the total. All candidates must take at least one paper in Czech, Polish or Russian Language from Group 1. All students taking this degree must have their choice of Options approved by the Head of Department of Slavonic Studies. With the approval of the Head of the Department of Slavonic Studies students may substitute a Dissertation for ONE of the Options taken in Junior Honours year. The Dissertation will have the same weight as the Option it replaces. The topic for the Dissertation must be approved by the Head of the Department of Slavonic Studies and by the Head of the Department (or his or her representative) responsible for the supervision of the Dissertation. The Dissertation will normally be written in English and will be 8,000-10,000 words long, but in appropriate circumstances and with the approval of the Head of the Department of Slavonic Studies the Dissertation may be written in Czech, German, Polish or Russian, in which case it will be 4,000-5,000 words long. Agreement to substitute a Dissertation for one paper and for the topic of the Dissertation should normally be obtained by the end of Term 1 of the Junior Honours year. After that date it will not normally be possible for the decision to write a Dissertation to be reversed. The Dissertation must be handed in by the end of Week 1 of Term 2 of the Senior Honours year.



*Course Co-ordinator:* Dr Andrei Rogatchevski

## 7DPG SLAVONIC STUDIES 4H (COMBINED)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be arranged.

*Requirements of entry:* Grade D or better in any three modules at Level 1 and 2. With the approval of the Head of the Department of Slavonic Studies students will be able to substitute up to two modules taken in a cognate subject (e.g. English Literature or Scottish Literature) for Slavonic Studies modules at Level 1 and 2.

*Assessment:* All comparative options are examined by course assessment only. Cultural, language, and political and economic options are usually assessed by degree examination and students normally sit that examination in the same year as the option is taken, i.e. options completed in Junior Honours are normally examined at the end of the Junior Honours year, and options completed in the Senior Honours year are examined at the end of the Senior Honours year.

*Degree Examination taken in:* May/June

*Aims:* This course is intended to: (1) impart to students an advanced knowledge of comparative aspects of developments in literature, culture, history and/or politics in at least two of the countries of Central and Eastern Europe; (2) acquaint students with aspects of the literatures, culture, history, politics and economics of Central and Eastern Europe via English-language sources; (3) optionally, to provide students with language instruction at an appropriate level in one or two of the Slavonic languages; (4) increase students' ability to work effectively, as well as to further the acquisition of generic and transferable skills which will be of value in later life.

*Honours Course Prescription:* Students will normally take 60 credits worth of options each year. Students may select from the following four groups of options: I: Comparative Options: Czech, Polish and Russian Women's Writing in English Translation, The Mass Media of Central and Eastern Europe (15 credits), Further Issues Concerning the Mass Media (15 credits), Slavonic Drama (15 credits), Holocaust Literature (15 credits). II: Cultural Options: Contemporary Czech Cinema, Polish Literature in English Translation from the Renaissance to the Twentieth Century, Contemporary Polish Cinema, The Russian Novel in English Translation, Polish Identities: Readings in Polish Cultural and Intellectual History, History of the Czechs and Slovaks, The Lost Empire: Byzantium and the Slavs 800-1600 (taught jointly with the Department of Medieval History), Russian Cinema; Domesticating the Dictators: Women's Writing under Franco and Stalin. III: Language Options: Subsidiary Czech Language (Beginners), Subsidiary Czech Language (Intermediate), Subsidiary Polish Language (Beginners), Subsidiary Polish Language (Intermediate), Subsidiary Russian Language (Beginners), Subsidiary Russian Language (Intermediate). IV: Political and Economic Options (taught by or for the Department of Central and East European Studies): An Economic and Social History of Central

and Eastern Europe 1918-1989; Cultural Politics and Change in Post-Soviet Russia; Civil Society and the State in East Central Europe; Statehood, Nationality, Identity: The Baltic States since 1918; Post-Soviet Russia: Renegotiating Global and Local Identities. Students are required to take a minimum of 30 credits from Group I; a maximum of 60 credits from Group III and a maximum of 60 credits from Group IV. Options are normally taught on a yearly basis. The Options are usually each rated at 30 credits except for those options in Group II or where indicated. All curricula must be approved by the Head of Section. Students may substitute a Dissertation of 8,000-10,000 words for ONE of the options taken in Junior Honours year. The dissertation will be rated at 15 credits. The Dissertation must be handed in by the end of Week 1 of Semester 2 of the Senior Honours year.

*Course Co-ordinator:* Dr John Bates

## Scottish Literature

### KFXU SCOT LIT 1A: WRITING THE NATION: SCOTT TO MACDIARMID

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday and Wednesday at 10.00 in 11 out of the 12 weeks. Wednesday 14.00-16.00 in weeks 4, 8 and 10 for relevant showing of films, documentaries and guest readings. Seminars: Tuesday 10.00 or Thursday 10.00 or Thursday 12.00 or Friday 11.00 or Friday 12.00 in 8 out of the 12 weeks.

*Requirements of entry:* No entry requirements other than standard admission requirements for the University.

*Aims:* The aims of this course are to provide an introduction to the main themes and writers of the Scottish Literary Tradition of the 19th and early 20th centuries. Teaching will focus on large cultural/political/historical contexts for the writers and texts studied, and there will be specific attention to the development of Scots Language during the period.

*Course Co-ordinator:* Mr Matthew McGuire

### KFYU SCOT LIT 1B: WRITING THE NATION: SCOT LIT POST 1945

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Mondays and Wednesdays at 10.00 for 11 of the 12 weeks. Wednesdays 14.00-16.00 in weeks 4, 7 and 9 for relevant showings of films, documentaries and guest readings. Seminars: Tuesday 10.00 or Thursday 10.00 or Thursday 12.00 or Friday 11.00 or Friday 12.00 in 8 of the 12 weeks.

*Requirements of entry:* None.

*Aims:* The aims of this course are to provide an introduction to the main themes and writers of the Scottish Literary tradition between 1945 and the present. Teaching will focus on large cultural / political / historical contexts for the writers and texts studied, and

there will be specific attention to the development of Scots language during the period.

*Course Co-ordinator:* Mr Matthew McGuire

### **7EBV SCOTTISH LITERATURE 2A: EARLY SCOTTISH LITERATURE & LANGUAGE**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday (joint with English Language), Tuesday and Thursday - 12.00 noon; plus one literature seminar weekly, and c. 6 language seminars per course.

*Requirements of entry:* Normally, minimally a D (10 grade points) in both courses of Scottish Literature 1 or in cognate classes such as English Literature or English Language. Alternatively, if DACE course 'An Introduction to Scottish Literature' is taken with Scottish Literature 1B, and both are obtained at at least Grade D, access to Level 2 Scottish Literature is allowed.

*Assessment:* One language exercise 20%; four seminar reports 20%; one literature essay 30%; one examination paper in January 30%

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The Level 2A course overall intends to: - introduce students to key Scottish texts of the medieval period; - provide an introduction to the history and structure of the Scots tongue; - enable students to analyse Older Scots texts, using the appropriate literary and linguistic critical terms; - introduce several key literary concepts that are essential to an understanding of medieval and early modern literature.

*Course Co-ordinator:* Dr Rhona Brown

### **7EAV SCOTTISH LITERATURE 2B: EARLY SCOTTISH LITERATURE & LANGUAGE**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday (joint with English Language), Tuesday and Thursday - 12.00 noon; plus one literature seminar weekly, and c.6 language seminars per course.

*Requirements of entry:* For students wishing to continue the study of Scottish Literature, entry is normally conditional on a satisfactory performance in Scottish Literature 2A, but entry from other classes in the Arts Faculty is also possible, conditional on satisfactory performance in these classes.

*Assessment:* One language exercise 20%; four seminar reports 20%; one literature essay 30%; one degree examination paper in June 30%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The Level 2B course intends to: - introduce students to key Scottish texts from the early modern period to the nineteenth century; - provide an introduction to the history and structure of the Scots tongue; - enable

students to analyse the period's texts, using the appropriate literary and linguistic critical terms; - introduce several key literary concepts that are essential to an understanding of early modern to nineteenth-century Scottish literature;

*Course Co-ordinator:* Dr Rhona Brown

### **KFZW SCOT LIT 3A: IMAGINING SCOTLAND 1814-1945**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday, Wednesday and Friday at 10.00 in 10 of the 12 weeks. Seminars: 5 two-hour seminars throughout the course: Thursdays 14.00-16.00

*Requirements of entry:* Home students wishing to take Level 3 are expected to have completed a Level 2 course in Scottish Literature or a complimentary literary discipline. Overseas students whose major subject is English are encouraged to take this course.

*Aims:* This course aims to provide senior students of literature, who have little experience of Scottish Literary studies, with a detailed introduction to Scottish writing from Walter Scott's 'Waverley' of 1814 to the literature of the Modern Scottish Renaissance in the interwar period. Major political/historical and cultural themes will be addressed. This course aims to stimulate knowledge and further interest in Scottish Literature for those students wishing to complete a non-honours literary studies degree.

*Course Co-ordinator:* Mr Matthew McGuire

### **KGAW SCOT LIT 3B: IMAGINING SCOTLAND: 1945 - 21ST CENTURY**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday, Wednesday and Friday at 10.00 in 10 of the 12 weeks. Seminars: 5 two-hour seminars throughout the course: Thursdays 14.00-16.00

*Requirements of entry:* Home students wishing to take Level 3 are expected to have completed a Level 2 course in Scottish Literature or a complimentary literary discipline. Overseas students whose major subject is English are encouraged to take this course.

*Aims:* This course aims to provide senior students of literature, who have little experience of Scottish Literary studies, with a detailed introduction to Scottish writing between 1945 and the present. Major political / historical and cultural themes will be addressed. The course aims to stimulate knowledge in Scottish Literature for those students wishing to complete a non-honours literary studies degree.

*Course Co-ordinator:* Mr Matthew McGuire

### **125F SCOTTISH LITERATURE 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* See individual papers

*Requirements of entry:* All four courses of Scottish Literature Levels 1 and 2, with at least 24 grade points in the Level 2 courses and neither of these falling below D.

*Excluded Courses:* Those rendered impossible for timetable reasons.

*Assessment:* Three papers plus a dissertation over the two honours years. Dissertation counts as one paper

*Degree Examination taken in:* May/June

*Aims:* (1) To offer a comprehensive approach to literary studies through a wide-ranging choice of specialised, text-based courses on aspects of Scottish language and literature. (2) To base this upon a developing understanding of criticism, theory and literary form, applied to a variety of Scottish texts. (3) to provide students with an opportunity to enrich their awareness of literature in its social context through the study of related aspects of Scottish culture. (4) To enable students to develop their expository skills through intensive group discussion and the writing of essays. (5) To provide an opportunity, through the writing of a dissertation, for students to carry out an extended piece of research.

*Honours Course Prescription:* Over the two-year course students must take three papers from the list below, and submit a dissertation of around 10,000 words on an approved topic, making a total of 8 papers. Group A 1: History of Scots (English Language) (30 credits); 2: History of Scottish Book (English Language) (30 credits) Group B 3a: Scottish Literature and Theory: Contexts (15 credits) 3b: Scottish Literature and Theory Kinds. (15 credits); 4: From Beginnings to Early Modern (30 credits); 5: Augustans and Romantics (1603-1843) (30 credits) 6: Victorian and Renaissance (1843-1943) (30 credits); 7: Modern and Contemporary (1943-2004) (30 credits) 8: Special Topic (30 credits) (Topics will vary each session ); 9: Dissertation (30 credits)

*Course Co-ordinator:* Mr Theo Van Heijnsbergen

### **125H SCOTTISH LITERATURE 3H (SINGLE)**

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* See individual papers

*Requirements of entry:* All four courses of Scottish Literature Levels 1 and 2, with at least 24 grade points in the Level 2 courses and neither of these falling below D. Applicants for Single Honours Scottish Literature should also have completed both courses of English Language Level 1 at grade D or above.

*Assessment:* Seven papers taken in 3H & 4H years plus a dissertation. Dissertation counts as one paper

*Degree Examination taken in:* May/June

*Aims:* (1) To offer a comprehensive approach to literary studies through a wide-ranging choice of specialised, text-based courses on aspects of Scottish language and literature. (2) To base this upon a developing understanding of criticism, theory and literary form, applied to a variety of Scottish texts. (3) To provide students with an opportunity to enrich their awareness of literature in its social context through the study of related aspects of Scottish culture. (4) To enable students to develop their expository skills through intensive group

discussion and the writing of essays. (5) To provide an opportunity, through the writing of a dissertation, for students to carry out an extended piece of research.

*Honours Course Prescription:* Over the two-year course students must take seven papers from the list below, and submit a dissertation of around 10,000 words on an approved topic, making a total of 8 papers. They must take either paper 1 or 2 (Language), papers 3a and 3b (Theory), a paper from the medieval period and at least 2 other papers from Group B. If they wish, students may choose no more than 2 papers from Group C, which are offered by a range of other University departments. Group A 1: History of Scots (English Language) (30 credits); 2: History of Scottish Book (English Language) (30 credits) Group B 3a: Scottish Literature and Theory: Contexts (15 credits) 3b: Scottish Literature and Theory: Kinds (15 credits); 4: From Beginnings to Early Modern (30 credits); 5: Augustans and Romantics (1603-1843) (30 credits) 6: Victorian and Renaissance (1843-1943) (30 credits); 7: Modern and Contemporary (1943-2004) (30 credits); 8: Special Topic (30 credits) (Topics will vary each session.); 9: Dissertation (30 credits) Group C Options offered by other departments may include the following subject areas: history, philosophy, English Literature, English Language, Celtic.

*Course Co-ordinator:* Mr Theo Van Heijnsbergen

### **125G SCOTTISH LITERATURE 4H (JOINT)**

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* See individual papers

*Requirements of entry:* Successful completion of Junior Honours Scottish Literature

*Excluded Courses:* Those rendered impossible for timetable reasons.

*Assessment:* Four papers in 4H year plus a dissertation. Dissertation counts as one paper

*Degree Examination taken in:* May/June

*Aims:* (1) To offer a comprehensive approach to literary studies through a wide-ranging choice of specialised, text-based courses on aspects of Scottish language and literature. (2) To base this upon a developing understanding of criticism, theory and literary form, applied to a variety of Scottish texts. (3) to provide students with an opportunity to enrich their awareness of literature in its social context through the study of related aspects of Scottish culture. (4) To enable students to develop their expository skills through intensive group discussion and the writing of essays. (5) To provide an opportunity, through the writing of a dissertation, for students to carry out an extended piece of research.

*Honours Course Prescription:* Over the two-year course students must take three papers from the list below, and submit a dissertation of around 10,000 words on an approved topic, making a total of 4 Scottish Literature papers.

Group A 1: History of Scots (English Language) (30 credits) 2: History of Scottish Book (English Language) (30 credits) Group B 3: Theory 3a: Introduction to Theory (15 credits) 3b: Advanced Theory (15 credits)

4: From Beginnings to Early Modern (30 credits) 5: Augustans and Romantics (1603-1843) (30 credits) 6: Victorian and Renaissance (1843-1943) (30 credits) 7: Modern and Contemporary (1943-2004) (30 credits) 8: Special Topic (30 credits) (Topics will vary each session.) 9: Dissertation (30 credits)

*Course Co-ordinator:* Mr Theo Van Heijnsbergen

### 125J SCOTTISH LITERATURE 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* See individual papers

*Requirements of entry:* Successful completion of Junior Honours Scottish Literature

*Assessment:* Seven papers taken in 3H & 4H years plus a dissertation. Dissertation counts as one paper

*Degree Examination taken in:* May/June

*Aims:* (1) To offer a comprehensive approach to literary studies through a wide-ranging choice of specialised, text-based courses on aspects of Scottish language and literature. (2) To base this upon a developing understanding of criticism, theory and literary form, applied to a variety of Scottish texts. (3) To provide students with an opportunity to enrich their awareness of literature in its social context through the study of related aspects of Scottish culture. (4) To enable students to develop their expository skills through intensive group discussion and the writing of essays. (5) To provide an opportunity, through the writing of a dissertation, for students to carry out an extended piece of research.

*Honours Course Prescription:* Over the two-year course students must take seven papers from the list below, and submit a dissertation of around 10,000 words on an approved topic, making a total of 8 papers. They must take either paper 1 or 2 (Language), papers 3a and 3b (Theory), a paper from the medieval period and at least 2 other papers from Group B. If they wish, students may choose no more than 2 papers from Group C, which are offered by a range of other University departments. Group A 1: History of Scots (English Language) (30 credits) 2: History of Scottish Book (English Language) (30 credits) Group B 3: Theory 3a: Introduction to Theory (15 credits) 3b: Advanced Theory (15 credits) 4: From Beginnings to Early Modern (30 credits) 5: Augustans and Romantics (1603-1843) (30 credits) 6: Victorian and Renaissance (1843-1943) (30 credits) 7: Modern and Contemporary (1943-2004) (30 credits) 8: Special Topic (30 credits) (Topics will vary each session.) 9: Dissertation (30 credits) Group C Options offered by other departments may include the following subject areas: history, philosophy, English Literature, English Language, Celtic.

*Course Co-ordinator:* Mr Theo Van Heijnsbergen

### Slavonic Studies

Please see the entries for the School of Modern Languages & Cultures, page 191.

## Sociology, Anthropology & Applied Social Sciences

### JNNU SOCIOLOGY AND ANTHROPOLOGY 1

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures Monday, Tuesday, Thursday - 12.00 noon- 12.50 pm ; weekly tutorials (one hour).

*Excluded Courses:* Since this course replaces Sociology 1 and Anthropology 1, you cannot take Sociology and Anthropology 1 if you have taken either Sociology 1 or Anthropology 1.

*Assessment:* Two 2000-3000 word essays (50%) and one two hour examination requiring two essays (50%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* - To introduce students to Sociology and Anthropology as major academic disciplines within the social sciences, focusing on the theme of global Inequalities and Diversity. - To introduce students to some of the major sociological and anthropological research and theories concerning the nature of contemporary societies, social change, and the causes and consequences of inequalities in Scotland and the United Kingdom, and in comparative and global perspectives. - To provide students with skills for learning in sociology and anthropology.

*Course Co-ordinator:* Dr Matthew Waites

### JNLV SOCIOLOGY AND ANTHROPOLOGY 2

*Credits:* 40

*Level:* 2

*When Taught:* Full Session (September - June)

*Timetable:* Monday, Tuesday, Thursday, Friday - 4.00 pm; fortnightly tutorials

*Requirements of entry:* Grade D in Sociology 1 or Anthropology 1 for students matriculated in or before 2005. Starting in 2006-7 the pre-requisite will be Grade D in Level 1 Sociology and Anthropology.

*Excluded Courses:* Since this course replaces Sociology 2 and Anthropology 2, you cannot take Sociology and Anthropology 2 if you have taken either Sociology 2 or Anthropology 2.

*Assessment:* Two 2,500-3,000 word essays (50%) and one 2-hour examination (50%); oral at examiners' discretion

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* This course aims to provide a theoretically informed perspective on the problem of the origins, consequences and effects of modern society, paying particular attention to insights and arguments drawn from some of the key thinkers in the disciplines of sociology and anthropology. Within this broad purpose, we aim to: a) deepen your existing knowledge about contemporary British society and about aspects of other societies gained from your Level 1 course; b) situate

your knowledge in a broader historical and geographical context to reveal that we cannot understand current social arrangements without an understanding of history and the processes of social change; c) situate your knowledge in a definite framework of comparison with other societies to allow for a more informed evaluation of the balance between broad general processes and specific social and cultural features in the study of social change; and d) provide a foundation upon which the more specialised Honours Courses in Sociology and/or Anthropology may be followed.

*Course Co-ordinator:* Dr Andrew Smith

### 459F ANTHROPOLOGY 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Normally Sociology and Anthropology 1 at D and Sociology and Anthropology 2 at C

*Assessment:* Four papers taken in 4H year, or three papers and a previously submitted dissertation. For the papers, one essay (2-3,000 words) 33%, one two-hour examination 67%.

*Degree Examination taken in:* May/June

*Aims:* The discipline of Social Anthropology covers virtually every aspect of human social activity. Anthropologists focus on human interaction: with other humans and with animals, gods and machines. They may study the organisation of social life in small rural communities as well as in large metropolitan cities. They work at various levels of scale, ranging from individual biographies to studies of nations, regions or transnational networks. Anthropology's focus is on the relations that connect social and cultural phenomena and thus characteristically links or cross-cuts the subject limits of other disciplines. Anthropologists are characteristically interested in the practical workings and effects among ordinary people of large-scale social phenomena such as state plans, nationalisms, or religious ideologies. In a contemporary so-called 'global' world, they seek to identify local differences of understanding and interpretation, which recognising ways in which local processes are shaped by wider forces. Anthropology is distinguished from subjects such as economics or political science by its holistic range and the attention it gives to the diversity of culture and society across the world. It is differentiated from sociology both in its main methods (based on long term participant observation), its commitment to the relevance of micro studies and its extension beyond strictly social phenomena to culture, art, individuality and cognition.

Anthropology at the University of Glasgow is taught within the Department of Sociology, Anthropology and Applied Social Sciences, students benefit from being able to take a combination of Anthropology and Anthropology/Sociology courses. The integration of anthropology and sociology at the University of Glasgow has been commented on by external examiners as a distinctive and positive feature of our department. This integration begins at levels one and two and continues at honours. Levels 1 and 2 Anthropology and the honours courses open to anthropology students reflect a

wide range of staff research interests and include identity, war, racism, ethnicity, nationalism, gender, development, global movements, and post-colonialism. Staff members have carried out research in Britain, other European countries, Latin America, Africa and Japan. A wide range of teaching methods is used including project work as well as traditional lectures, seminars and workshops. A Joint Honours degree in anthropology from the University of Glasgow prepares students for employment in a number of fields that require a sophisticated, critical and questioning understanding of the workings of society. Past graduates are now employed in the media, city councils, development agencies, market research, data analysis, business management, housing, education, etc. A number of our students have also entered post graduate studies.

This degree programme aims: to provide students with knowledge of the principles and theory of anthropology; to give students opportunities to develop practical skills in the gathering, analysis, presentation and discussion of anthropological data; to develop an awareness of the ethical implications of carrying out anthropological research; to develop in students the ability to apply their knowledge and practical skills to solving anthropologically based research problems; to enable students to engage reflexively with the particularities of their own cultural and social contexts as well as with the possibilities inherent in cross cultural comparison; to enable students to enhance their transferable and inter-personal skills, particularly in communication, time management, individual and group research work, critical appraisal of social issues, and the informed use of information technology; to provide students with a wide range of skills that will meet the demands of the modern labour market.

*Honours Course Prescription:* Four courses from the following: a) Social Anthropology: Religion in Everyday Life; b) Analysis of Societies: An Anthropology of Experience; c) Sociology and Anthropology of the Body; d) Sociology and Anthropology of Knowledge and Belief; e) Social Theory; f) Methods of Social Research; g) General Paper; h) Anthropology Dissertation; i) Cultural Politics and Social Change in Soviet and Post-Soviet Russia; j) Post-Soviet Russia: Renegotiating Global and Local Identities; k) Society and Environment in the Post-Soviet World; l) Race, Ethnicity and Nationalism.

*Course Co-ordinator:* Dr Lisa Bourque

### 209F SOCIOLOGY 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Normally Sociology and Anthropology 1 at D and Sociology and Anthropology 2 at C.

*Assessment:* Four courses taken over the course of the Senior and Junior Honours years. This may include a dissertation. For courses, the assessment typically consists of one essay (2-3,000 words) 33%, one two-hour examination 67%.

*Degree Examination taken in:* May/June

*Aims:* Sociology is a core Social Science discipline which is concerned with developing knowledge and understanding of the world from a distinctly 'social' point of view by focussing on the relations that connect individuals, groups and institutions. Sociology's central concerns are the conceptualisation of society and social interaction; the conceptualisation of and relationships between action/agency and social structure; the conceptualisation of micro and macro levels of social analysis, and relationships between these; and the social aspects of the constitution of the individual including the self, subjectivity and embodiment. Sociological theories offer variable accounts of the nature of relationships between society and individuals. Sociology is a discipline which, by identifying the specificity of societies through historical and comparative perspectives, facilitates critiques of contemporary societies, particularly in relation to issues of power and inequality. In particular, sociology seeks to understand how societies, institutions and practices of all kinds came into being, how they are currently organised and how they might change in the future. The discipline of sociology developed in the 19th and 20th centuries as attempts were made to examine these issues in 'modern' 'Western' societies. Today, in an age of globalisation, in order to understand modern society, we increasingly need to look beyond our own boundaries. The sociology undergraduate programme at the University of Glasgow is particularly well placed to do so because of its integration with social anthropology which begins with our first and second year courses and continues at honours level. This integration has been highlighted by our external examiners as something that is distinctive about, and particularly well achieved, by our department. We offer a wide variety of courses at Honours level which reflect a diversity of staff research interests including media, criminology and criminal justice, disability, identity, violence, racism, ethnicity, nationalism, football, sexuality, popular literature, consumption, gambling, religion, youth and employment, development, global movements, and post-colonialism. Staff members have carried out research in Britain, other European countries, Latin America, Africa and Japan. A wide range of teaching methods is used including project work as well as traditional lectures, seminars and workshops. A degree in Sociology from the University of Glasgow prepares students for employment in a number of fields that require a sophisticated/critical/questioning understanding of the workings of society. Past graduates are now employed in the media, city councils, development agencies, market research, data analysis, business management, housing, education, etc. A number of our students have also entered post graduate studies.

This degree programme aims: -to provide students with knowledge and understanding of sociological theories and research methods -to give students opportunities to develop practical skills in the gathering, analysis, presentation and discussion of sociological data -to develop an awareness of the ethical implications of carrying out sociological research -to enable students to engage reflexively with the particularities of their own cultural and social contexts as well as with the possibilities inherent in cross cultural comparison -to develop in students the ability to apply their knowledge and practical skills to solving sociologically based research prob-

lems -to enable students to enhance their transferable and inter-personal skills, particularly in communication, time management, individual and group research work, critical appraisal of social issues, and the informed use of information technology -to provide students with a wide range of skills that will meet the demands of the modern labour market

*Honours Course Prescription:* If you are a single honours sociology student or if you are joint honours sociology and anthropology, you have 4 required courses over the two years of your Honours degree. In your Junior Honours year, you must take Methods of Social Research and Social Theory. These can count as either Sociology or Anthropology options. Your other two courses in your Junior Honours year can be drawn from the list below. In your Senior Honours year, the compulsory courses are: the Dissertation and the General Paper. These can be sat as either Sociology or Anthropology options. Your remaining two courses can be chosen from the list below. If you are Joint Honours Sociology with any other subject apart from anthropology, you do not have any required courses and can select any of your courses from the list below. You will be expected to take a total of 4 Sociology courses over the course of two years. Your optional courses in either year will be selected from the following list depending on which year they are available (either your Junior or Senior Honours year). These are: Social Theory; Methods of Social Research; Dissertation; General Paper; Social Stratification; Gender, Violence and Social Control (subject to Board of Study approval for this course); Sociology of Crime and Criminological Perspectives; Gender Divisions in Society; Sociology of Consumption; Sociology of Industry; Sociology of Literature and Art; Sociology of Mass Media; Sociology of Sexuality; Sociology of Music; Sociology of Racism; Racism, Citizenship and Migration in Contemporary Europe; Race, Ethnicity and Nationalism; Sociology and Anthropology of the Body; Sociology and Anthropology of Knowledge and Belief; Social Anthropology: Religion in Every-day Life; Social Anthropology: Substantive Areas; Social Anthropology: Analysis of Societies; Cultural Politics and Social Change in Soviet and Post-Soviet Russia; Post-Soviet Russia: Renegotiating Global and Local Identities; Society and Environment in Post-Soviet Russia.

*Course Co-ordinator:* Dr Lisa Bourque

## 209H SOCIOLOGY 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Normally Sociology and Anthropology 1 at D and Sociology and Anthropology 2 at C

*Assessment:* Eight papers taken in 4H year

*Degree Examination taken in:* May/June

*Aims:* Sociology is a core Social Science discipline which is concerned with developing knowledge and understanding of the world from a distinctly 'social' point of view by focussing on the relations that connect individuals, groups and institutions. Sociology's central concerns are the conceptualisation of society and social interaction; the conceptualisation of and relationships

between action/agency and social structure; the conceptualisation of micro and macro levels of social analysis, and relationships between these; and the social aspects of the constitution of the individual including the self, subjectivity and embodiment. Sociological theories offer variable accounts of the nature of relationships between society and individuals. Sociology is a discipline which, by identifying the specificity of societies through historical and comparative perspectives, facilitates critiques of contemporary societies, particularly in relation to issues of power and inequality. In particular, sociology seeks to understand how societies, institutions and practices of all kinds came into being, how they are currently organised and how they might change in the future. The discipline of sociology developed in the 19th and 20th centuries as attempts were made to examine these issues in 'modern' 'Western' societies. Today, in an age of globalisation, in order to understand modern society, we increasingly need to look beyond our own boundaries. The sociology undergraduate programme at the University of Glasgow is particularly well placed to do so because of its integration with social anthropology which begins with our first and second year courses and continues at honours level. This integration has been highlighted by our external examiners as something that is distinctive about, and particularly well achieved, by our department. We offer a wide variety of courses at Honours level which reflect a diversity of staff research interests including media, criminology and criminal justice, disability, identity, violence, racism, ethnicity, nationalism, football, sexuality, popular literature, consumption, gambling, religion, youth and employment, development, global movements, and post-colonialism. Staff members have carried out research in Britain, other European countries, Latin America, Africa and Japan. A wide range of teaching methods is used including project work as well as traditional lectures, seminars and workshops. A degree in Sociology from the University of Glasgow prepares students for employment in a number of fields that require a sophisticated/critical/questioning understanding of the workings of society. Past graduates are now employed in the media, city councils, development agencies, market research, data analysis, business management, housing, education, etc. A number of our students have also entered post graduate studies.

This degree programme aims: to provide students with knowledge and understanding of sociological theories and research methods; to give students opportunities to develop practical skills in the gathering, analysis, presentation and discussion of sociological data; to develop an awareness of the ethical implications of carrying out sociological research; to enable students to engage reflexively with the particularities of their own cultural and social contexts as well as with the possibilities inherent in cross cultural comparison; to develop in students the ability to apply their knowledge and practical skills to solving sociologically based research problems; to enable students to enhance their transferable and inter-personal skills, particularly in communication, time management, individual and group research work, critical appraisal of social issues, and the informed use of information technology; to provide students with a wide range of skills that will meet the demands of the modern labour market.

*Honours Course Prescription:* If you are a single honours sociology student or if you are joint honours sociology and anthropology, you have 4 required courses over the two years of your Honours degree. In your Junior Honours year, you must take Methods of Social Research and Social Theory. These can count as either Sociology or Anthropology options. Your other two courses in your Junior Honours year can be drawn from the list below. In your Senior Honours year, the compulsory courses are: the Dissertation and the General Paper. These can be sat as either Sociology or Anthropology options. Your remaining two courses can be chosen from the list below. If you are Joint Honours Sociology with any other subject apart from anthropology, you do not have any required courses and can select any of your courses from the list below. You will be expected to take a total of 4 Sociology courses over the course of two years. Your optional courses in either year will be selected from the following list depending on which year they are available (either your Junior or Senior Honours year). These are: Social Theory; Methods of Social Research; Dissertation; General Paper; Social Stratification; Gender, Violence and Social Control (subject to Board of Study approval for this course); Sociology of Crime and Criminological Perspectives; Gender Divisions in Society; Sociology of Consumption; Sociology of Industry; Sociology of Literature and Art; Sociology of Mass Media; Sociology of Sexuality; Sociology of Music; Sociology of Racism; Racism, Citizenship and Migration in Contemporary Europe; Race, Ethnicity and Nationalism; Sociology and Anthropology of the Body; Sociology and Anthropology of Knowledge and Belief; Social Anthropology: Religion in Every-day Life; Social Anthropology: Substantive Areas; Social Anthropology: Analysis of Societies; Cultural Politics and Social Change in Soviet and Post-Soviet Russia; Post-Soviet Russia: Renegotiating Global and Local Identities; Society and Environment in Post-Soviet Russia.

*Course Co-ordinator:* Dr Lisa Bourque

### **LFHW SOCIOLOGY AND ANTHROPOLOGY 3: METHODS OF SOCIAL RESEARCH**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Two hours per week, Tuesday mornings 10-12noon, total 40 hours

*Requirements of entry:* 'D' grade or above in Level II Sociology/Anthropology

*Assessment:* a) computer exercises (25%) b) Project proposal, designing a questionnaire and a critical appraisal (45%) c) in-depth interview report (30%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The aim of this course is to a) introduce you to a range of research methods commonly used in social research and to provide practical guidance in the use of such methods b) provide you with an opportunity to acquire skills in research design, quantitative and qualitative data collection, and in data analysis c) enable you to think critically about the uses of sociological re-

search and the social, political and institutional context in which it takes place. These aims are in line with the Departmental aim of producing graduates with independent critical minds, with the skills necessary to respond appropriately to a rapidly changing environment, to facilitate entry into a wide variety of careers.

*Course Co-ordinator:* Dr Susan Wiltshire

### 459G ANTHROPOLOGY 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Normally Anthropology 1 at D and EITHER Anthropology 2 OR Sociology 2 at C.

*Assessment:* Four papers taken in 4H year, or three papers and a previously submitted dissertation. For the papers, one essay (2-3,000 words) 33%, one two-hour examination 67%.

*Degree Examination taken in:* May/June

*Aims:* To broaden students' knowledge of societies and cultures very different to their own. To challenge them intellectually with the problems faced by the study of such societies and with the solutions - theories - that anthropologists have proposed. To contribute to students' understanding of important inter-cultural dimensions of the contemporary world. To encourage improvement in their technical expertise in researching and in written and oral presentation.

*Honours Course Prescription:* Four courses from the following: a) Social Anthropology: Religion in Everyday Life; b) Analysis of Societies: An Anthropology of Experience; c) Sociology and Anthropology of the Body; d) Sociology and Anthropology of Knowledge and Belief; e) Social Theory; f) Methods of Social Research; g) General Paper; h) Anthropology Dissertation; i) Cultural Politics and Social Change in Soviet and Post-Soviet Russia; j) Post-Soviet Russia: Renegotiating Global and Local Identities; k) Social Anthropology: Substantive Areas.

*Course Co-ordinator:* Dr Lisa Bourque

### 209G SOCIOLOGY 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Normally Sociology and Anthropology 1 at D and Sociology and Anthropology 2 at C

*Assessment:* Four courses taken over the course of the Senior and Junior Honours years. This may include a dissertation. For courses, the assessment typically consists of one essay (2-3,000 words) 33%, one two-hour examination 67%.

*Degree Examination taken in:* May/June

*Aims:* Sociology is a core Social Science discipline which is concerned with developing knowledge and understanding of the world from a distinctly 'social' point of view by focussing on the relations that connect individuals, groups and institutions. Sociology's central concerns are the conceptualisation of society and social

interaction; the conceptualisation of and relationships between action/agency and social structure; the conceptualisation of micro and macro levels of social analysis, and relationships between these; and the social aspects of the constitution of the individual including the self, subjectivity and embodiment. Sociological theories offer variable accounts of the nature of relationships between society and individuals. Sociology is a discipline which, by identifying the specificity of societies through historical and comparative perspectives, facilitates critiques of contemporary societies, particularly in relation to issues of power and inequality. In particular, sociology seeks to understand how societies, institutions and practices of all kinds came into being, how they are currently organised and how they might change in the future. The discipline of sociology developed in the 19th and 20th centuries as attempts were made to examine these issues in 'modern' 'Western' societies. Today, in an age of globalisation, in order to understand modern society, we increasingly need to look beyond our own boundaries. The sociology undergraduate programme at the University of Glasgow is particularly well placed to do so because of its integration with social anthropology which begins with our first and second year courses and continues at honours level. This integration has been highlighted by our external examiners as something that is distinctive about, and particularly well achieved, by our department. We offer a wide variety of courses at Honours level which reflect a diversity of staff research interests including media, criminology and criminal justice, disability, identity, violence, racism, ethnicity, nationalism, football, sexuality, popular literature, consumption, gambling, religion, youth and employment, development, global movements, and post-colonialism. Staff members have carried out research in Britain, other European countries, Latin America, Africa and Japan. A wide range of teaching methods is used including project work as well as traditional lectures, seminars and workshops. A degree in Sociology from the University of Glasgow prepares students for employment in a number of fields that require a sophisticated/critical/questioning understanding of the workings of society. Past graduates are now employed in the media, city councils, development agencies, market research, data analysis, business management, housing, education, etc. A number of our students have also entered post graduate studies.

This degree programme aims: to provide students with knowledge and understanding of sociological theories and research methods; to give students opportunities to develop practical skills in the gathering, analysis, presentation and discussion of sociological data; to develop an awareness of the ethical implications of carrying out sociological research; to enable students to engage reflexively with the particularities of their own cultural and social contexts as well as with the possibilities inherent in cross cultural comparison; to develop in students the ability to apply their knowledge and practical skills to solving sociologically based research problems; to enable students to enhance their transferable and inter-personal skills, particularly in communication, time management, individual and group research work, critical appraisal of social issues, and the informed use of information technology; to provide students with a wide range of skills that will meet the demands of the



modern labour market.

*Honours Course Prescription:* If you are a single honours sociology student or if you are joint honours sociology and anthropology, you have 4 required courses over the two years of your Honours degree. In your Junior Honours year, you must take Methods of Social Research and Social Theory. These can count as either Sociology or Anthropology options. Your other two courses in your Junior Honours year can be drawn from the list below. In your Senior Honours year, the compulsory courses are: the Dissertation and the General Paper. These can be sat as either Sociology or Anthropology options. Your remaining two courses can be chosen from the list below. If you are Joint Honours Sociology with any other subject apart from anthropology, you do not have any required courses and can select any of your courses from the list below. You will be expected to take a total of 4 Sociology courses over the course of two years. Your optional courses in either year will be selected from the following list depending on which year they are available (either your Junior or Senior Honours year). These are: Social Theory; Methods of Social Research; Dissertation; General Paper; Social Stratification; Gender, Violence and Social Control (subject to Board of Study approval for this course); Sociology of Crime and Criminological Perspectives; Gender Divisions in Society; Sociology of Consumption; Sociology of Industry; Sociology of Literature and Art; Sociology of Mass Media; Sociology of Sexuality; Sociology of Music; Sociology of Racism; Racism, Citizenship and Migration in Contemporary Europe; Race, Ethnicity and Nationalism; Sociology and Anthropology of the Body; Sociology and Anthropology of Knowledge and Belief; Social Anthropology: Religion in Every-day Life; Social Anthropology: Substantive Areas; Social Anthropology: Analysis of Societies; Cultural Politics and Social Change in Soviet and Post-Soviet Russia; Post-Soviet Russia: Renegotiating Global and Local Identities; Society and Environment in Post-Soviet Russia.

*Course Co-ordinator:* Dr Lisa Bourque

## 209J SOCIOLOGY 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Grade C in Sociology 2

*Assessment:* Eight papers taken in 4H year

*Degree Examination taken in:* May/June

*Aims:* The courses that you will take have been designed according to the general aims of the Departments Honours teaching programme which are: to provide, building on the work of the Level One (Ordinary) and Level Two (Higher Ordinary) classes, a sound knowledge and critical understanding of the academic disciplines of sociology and social anthropology; to develop specialist conceptual and analytical skills embedded within the context of education in the academic disciplines of sociology and social anthropology; to prepare students for further study and research in the field of sociology and social anthropology; to develop generic or transferable skills, particularly those entailed in communication (both written and oral), group work and the

use of information technology; to prepare students for further study and research in the field of sociology and social anthropology.

*Honours Course Prescription:* If you are a single honours sociology student or if you are joint honours sociology and anthropology, you have 4 required courses over the two years of your Honours degree. In your Junior Honours year, you must take Methods of Social Research and Social Theory. These can count as either Sociology or Anthropology options. Your other two courses in your Junior Honours year can be drawn from the list below. In your Senior Honours year, the compulsory courses are: the Dissertation and the General Paper. These can be sat as either Sociology or Anthropology options. Your remaining two courses can be chosen from the list below.

If you are Joint Honours Sociology with any other subject apart from anthropology, you do not have any required courses and can select any of your courses from the list below. You will be expected to take a total of 4 Sociology courses over the course of two years.

Your optional courses in either year will be selected from the following list depending on which year they are available (either your Junior or Senior Honours year). These are: Social Theory; Methods of Social Research; Dissertation; General Paper; Social Stratification; Gender, Violence and Social Control (subject to Board of Study approval for this course); Sociology of Crime and Criminological Perspectives; Gender Divisions in Society; Sociology of Consumption; Sociology of Industry; Sociology of Literature and Art; Sociology of Mass Media; Sociology of Sexuality; Sociology of Music; Sociology of Race and Ethnicity; Racism, Citizenship and Migration in Contemporary Europe; Sociology and Anthropology of the Body; Sociology and Anthropology of Knowledge and Belief; Social Anthropology: Religion in Every-day Life; Social Anthropology: Substantive Areas; Social Anthropology: Analysis of Societies; Cultural Politics and Social Change in Soviet and Post-Soviet Russia; Post-Soviet Russia: Rengotiating Global and Local Identities.

*Course Co-ordinator:* Dr Lisa Bourque

## Statistics

### 8W9B STATISTICS 1B: PRACTICAL STATISTICS

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: Tuesday, Wednesday, Thursday and Friday at 12.00 noon. Practicals: weekly for two hours at times to be arranged.

*Requirements of entry:* Pass in Standard Grade Mathematics (or equivalent)

*Excluded Courses:* Statistics 1Y and 1Z, Statistics 1C, Biometrics

*Assessment:* One 1.5 hour Class Examination (10%); one 3 hour written examination (50%); Practical work and projects (40%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to statistical concepts and thinking; to provide a practical introduction to data analysis; to demonstrate the importance and practical usefulness of statistics; to encourage and equip students to apply simple statistical techniques to design, analyse and interpret studies in a wide range of disciplines; to enable students to communicate the results of their analyses in clear non-technical language in writing up laboratory reports and projects; to make students aware of the limitations of simple techniques and encourage them to seek expert advice when more complex procedures are required; to provide examples of the uses of statistics in situations of relevance to students' other courses; to utilise a package on a computer to illustrate the power of statistical techniques and avoid tedious arithmetic.

## **2CHB STATISTICS 1C: STATISTICS FOR PSYCHOLOGISTS AND SOCIAL SCIENTISTS**

*Credits:* 40

*Level:* 1

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: Monday, Tuesday, Wednesday and Thursday at 1.00 pm. Practicals: weekly for two hours at times to be arranged.

*Requirements of entry:* Pass in Standard Grade Mathematics (or equivalent)

*Excluded Courses:* Statistics 1Y and 1Z, Statistics 1B, Biometrics

*Assessment:* One 1.5 hour Class Examination (10%); one 3-hour written examination (50%); practical work and project (40%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to statistical concepts and thinking; to provide a practical introduction to data analysis; to demonstrate the importance and practical usefulness of statistics; to encourage and equip students to apply simple statistical techniques to design, analyse and interpret studies in a wide range of disciplines but mainly in psychology; to enable students to communicate the results of their analyses in clear non-technical language in writing up laboratory reports and projects; to make students aware of the limitations of simple techniques and encourage them to seek expert advice when more complex procedures are required; to provide examples of the uses of statistics in situations of relevance to students' other courses; to utilise statistical packages on computers to illustrate the power of statistical techniques.

*Course Co-ordinator:* Dr Agostino Nobile

## **4RHU STATISTICS 1Y: PROBABILITY AND STATISTICAL METHODS**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday, Tuesday, Wednesday and Thursday at 9.00 am. Practicals: 6 one and a half hour practicals, at times to be arranged. Tutorials: Weekly for one hour at times to be arranged.

*Requirements of entry:* Pass in SCE Higher Mathematics (or equivalent)

*Excluded Courses:* Statistics 1B, Statistics 1C, Biometrics

*Assessment:* Written examination (one two-hour paper) 70%; Six practical reports 20%. Two one-hour class exams 10%.

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To: introduce students to basic concepts in probability; demonstrate the importance and practical usefulness of probability in real life; equip students to apply probability theory to solve problems from a wide range of disciplines; train students to use computers for simulation studies; show how probability is a necessary foundation for understanding statistics; introduce students to fundamental ideas in Statistics; demonstrate the importance and usefulness of these ideas in real life and on real data; show how to present data informatively and clearly; equip students to apply probability and statistical methods to solve standard problems from a wide range of disciplines; give students an appreciation of the limitations of these standard techniques; provide an appreciation of the assessment of variability through interval estimation; enable students to communicate the results of their analyses in clear non-technical language; promote an interest in probability and statistics and hence encourage students to study the subject further.

## **4RJU STATISTICS 1Z: DESIGN OF EXPERIMENTS AND ANALYSIS OF VARIANCE**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday, Tuesday, Wednesday and Thursday at 9.00 am. Practicals: 6 one and a half hour practicals, at times to be arranged. Tutorials: Weekly for one hour at times to be arranged.

*Requirements of entry:* Pass in SCE Higher Mathematics (or equivalent)

*Co-requisites:* Statistics 1Y

*Excluded Courses:* Statistics 1B, Statistics 1C, Biometrics

*Assessment:* Written examination (one two-hour paper) 70%; Six practical reports 20%. Two one-hour class exams 10%.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to further fundamental ideas in Statistics beyond those met in S1Y; demonstrate the importance and usefulness of these ideas in real life and on real data; enable students to understand both the strengths and weaknesses of the hypothesis test approach to statistical analysis; provide an appreciation of the need for statisticians to be involved in the design as well as the analysis of experiments; enable students to understand how sampling should be undertaken; enable students to assess relationships between random variables; enable students to understand how to utilise time series data in simple contexts; enable students to

communicate the results of their analyses in clear non-technical language; promote an interest in probability and statistics and hence encourage students to study the subject further.

#### 4FJV STATISTICS 2R: PROBABILITY

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday and Wednesday at 9.00 am. Practicals: fortnightly for 1.5 hours at times to be arranged. Tutorials: fortnightly for one hour at times to be arranged.

*Requirements of entry:* Mathematics 1R (or 1X) and 1S (or 1T or 1Y) (grade D or better). Strongly recommend Statistics 1Y/Z

*Assessment:* Degree Examination 70%, Class Examination 20%, 2 Lab Reports 10%

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to fundamental concepts in Probability theory, beyond the simpler ideas introduced in Level 1; to demonstrate the importance and usefulness of Probability in real applications; to equip students to apply Probability to solve problems from a wide range of disciplines; to train students to use computers for simulation studies; to promote an interest in Probability and Statistics and hence encourage students to study more advanced courses.

*Course Co-ordinator:* Mr John McColl

#### 4FBV STATISTICS 2S: STATISTICAL METHODS

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Tuesday and Thursday at 9.00 am. Practicals: fortnightly for one and a half hours at times to be arranged. Tutorials: fortnightly for one hour at times to be arranged.

*Requirements of entry:* Mathematics 1R (or 1X) and 1S (or 1T or 1Y) (grade D or better). Strongly recommend Statistics 1Y/Z

*Co-requisites:* Statistics 2R

*Assessment:* Degree Examination 70%, Class Examination 20%, 2 Lab Reports 10%

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to non-parametric tests for statistical inference; to introduce students to parametric methods of interval estimation, based on pivotal functions and on likelihood; to compare and contrast these different approaches to statistical inference; to demonstrate the importance and usefulness of these concepts in real applications; to equip students to apply statistical ideas to solve problems from a wide range of disciplines; to train students to communicate the results of their analyses in clear non-technical language; to train students to use computers appropriately for statistical analysis; to promote an interest in Statistics and encourage students to study more advanced courses.

*Course Co-ordinator:* Mr John McColl

#### 4FCV STATISTICS 2T: SURVEY METHODS AND DATA ANALYSIS

*Credits:* 10

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Friday at 9.00 am. Practicals: weekly for two hours at times to be arranged.

*Requirements of entry:* Either: Mathematics 1R (or 1X) and 1S (or 1T or 1Y) (grade D or better) and Statistics 2S; or: Statistics 1Y and 1Z or Statistics 1B or Statistics 1C (grade D or better).

*Assessment:* One 1 hour written examination (50%). Practical work and project (50%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To introduce students to statistical concepts in the design and analysis of observational studies; to demonstrate the importance and usefulness of these concepts in real applications; to equip students to organise and analyse data from observational studies in a wide range of disciplines; to train students to communicate the results of their research in clear non-technical language; to train students to use computers appropriately to store, retrieve and analyse data.

*Course Co-ordinator:* Mr John McColl

#### 4FDV STATISTICS 2X: PROBABILITY MODELS

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday and Wednesday at 9.00 am. Practicals: fortnightly for one and a half hours at times to be arranged. Tutorials: fortnightly for one hour at times to be arranged.

*Requirements of entry:* Mathematics 1R (or 1X) and 1S (or 1T or 1Y) (grade D or better).

*Co-requisites:* Statistics 2R and Mathematics 2X and 2Y and Mathematics 2R (or 2W) and 2S (or 2Z).

*Assessment:* Degree Examination 70%, Class Examination 20%, 2 Lab Reports 10%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to further concepts in Probability; to demonstrate the importance and usefulness of these concepts in real applications; to equip students to apply probability methods to solve problems from a wide range of disciplines; to promote an interest in Probability and Statistics and hence encourage students to study more advanced courses.

*Course Co-ordinator:* Mr John McColl

#### 4FEV STATISTICS 2Y: REGRESSION MODELLING

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Tuesday and Thursday at 9.00 am. Practicals: fortnightly for one and a half hours at times to be arranged. Tutorials: fortnightly for one hour at times to be arranged.

*Requirements of entry:* Mathematics 1R (or 1X) and 1S (or 1T or 1Y) (grade D or better).

*Co-requisites:* Statistics 2R and 2S.

*Assessment:* Degree Examination 70%, Class Examination 20%, 2 Lab Reports 10%

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to statistical modelling, in particular linear models; to demonstrate the importance and usefulness of modelling in real applications; to equip students to apply regression modelling to solve problems from a wide range of disciplines; to train students to communicate the results of their analyses in clear non-technical language; to train students to use computers appropriately for statistical analysis; to promote an interest in Statistics and encourage students to study more advanced courses.

*Course Co-ordinator:* Mr John McColl

#### 4FFV STATISTICS 2Z: ADVANCED DATA ANALYSIS

*Credits:* 10

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Friday at 9.00 am. Practicals: weekly for two hours at times to be arranged.

*Requirements of entry:* Either: Mathematics 1R (or 1X) and 1S (or 1T or 1Y) (grade D or better); or Statistics 1Y and 1Z; or Statistics 1B; or Statistics 1C; (grade D or better)

*Co-requisites:* Statistics 2T

*Assessment:* One 1 hour written examination (50%). Practical work and project (50%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To introduce students to some advanced statistical techniques in a non-mathematical manner; to demonstrate the importance and usefulness of these techniques in real applications; to equip students to apply these techniques to analyse data from a wide range of disciplines; to train students to communicate the results of their analyses in clear non-technical language; to train students to use computers appropriately for statistical analysis.

*Course Co-ordinator:* Mr John McColl

#### 8RJW STATISTICAL STUDIES 3

*Credits:* 40

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures 4 per week, weeks 1-12 and weeks 13-17. Tutorials 1 per week, weeks 1-12 and weeks 13-22. Practical 2 hours per week, weeks 1-12 and weeks 13-22.

*Requirements of entry:* Statistics 2R, 2S, 2X and 2Y (Grade D or better) and successful completion of Mathematics 2R (or 2W), 2S (or 2Z), 2X and 2Y with Grade D or better in two of them.

*Co-requisites:* There is no co-requisite for this course. However, this course forms part of the Designated Degree in Mathematical and Statistical Studies, for which any two of Mathematics 3P, 3Q, 3R, 3S are also required.

*Excluded Courses:* Courses which would be excluded are: Statistics 3M Single MSci; Statistics 3H Single BSc; Statistics 3M Combined MSci; Statistics 3H Combined BSc.

*Assessment:* Degree examination in May/June will consist of three papers: two theory papers, one 2-hour and one 1-hour (together contributing 75%) and one 1.5-hour practical paper (15%). Various coursework tasks associated with the practical programme (10%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* to extend previous work on the Normal Linear Model under standard assumptions; to describe some of the main tools required for the construction, evaluation and verification of Normal Linear Models; to show how this methodology may be applied to special cases of the Normal Linear Model, such as the one- and two-way analysis of variance, the analysis of covariance, and multiple and polynomial regression; to provide methods for detecting and dealing with breakdowns in the standard assumptions for the Normal Linear Model; to provide an introduction to the statistical aspects of designing experimental and observational studies, and to introduce associated methods of statistical analysis; to introduce students to Gaussian linear mixed effects models for balanced data and to the use of simple linear modelling software such as `lm` in `S` for this purpose; to provide an appreciation of the types of problems and questions which arise with multivariate data; to provide a good understanding of the application of multivariate techniques for: the graphical exploration of multivariate data; the reduction of dimensionality of multivariate data; to provide clear illustration of the application and interpretation of multivariate methods.

*Course Co-ordinator:* Prof Stephen Senn

#### 409F STATISTICS 3H (JOINT)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Practicals: Monday and Thursday, 2.00 pm-4.00 pm. Tutorials: weekly for one hour at a time to be arranged.

*Requirements of entry:* Statistics 2R, 2S, 2X and 2Y (grade D or better) and Mathematics 2R (or 2W), 2S (or 2Z), 2X and 2Y (grade D or better). In addition, a grade point average of at least 12 is required across the four Statistics level 2 courses. Any additional requirement from the other Honours subject must also be satisfied.

*Excluded Courses:* Statistics 3M

*Assessment:* Six written papers (100%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* General skills which the Joint Honours courses both 3H and 4H are designed to provide include: (1) a sound grounding in the principles and theory of statistical inference; (2) a critical, comprehensive, working knowledge of standard statistical methods in everyday use including some use of statistical packages; (3) sufficient grounding to be able to handle at least some non-standard problems; (4) the ability to explain conclusions clearly and correctly and in non-technical language; (5) statistical programming skills; (6) practical experience of carrying out short statistical tasks using appropriate computing software (gained through limited participation in computer-based practicals and a short final-year project).

*Honours Course Prescription:* A subset of: Inference 3, Linear Models 3, Probability 3, Applied Modelling 3, Multivariate Statistics 3, Statistical Computing 3, Linear Mixed Models 3, Design of Statistical Investigations 3, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4 (Combined).

*Course Co-ordinator:* Prof Stephen Senn

#### 409H STATISTICS 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Practicals: Monday and Thursday, 2.00 pm-4.00 pm. Tutorials: weekly for one hour at a time to be arranged.

*Requirements of entry:* Statistics 2R, 2S, 2X and 2Y (grade D or better) and Mathematics 2R (or 2W), 2S (or 2Z), 2X and 2Y (grade D or better). In addition, a grade point average of at least 12 is required across the four Statistics level 2 courses.

*Excluded Courses:* Statistics 3M

*Assessment:* Eight written papers (66.7%), practical paper (8.3%), data-analysis project (16.7%), practical reports and self study portfolio (8.3%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* General skills which the Single Honours courses both 3H and 4H are designed to provide include: (1) a sound grounding in the principles and theory of statistical methods in everyday use; (2) a critical, comprehensive, working knowledge of standard statistical methods in everyday use; (3) sufficient grounding to be able to handle at least some non-standard problems; (4) experience as a statistical consultant (primarily through project work, carried out under supervision, in which you advise a scientist, doctor or social scientist with problems involving analysis of data); (5) the programming and computing skills necessary to carry out the above; (6) the ability to explain conclusions clearly and correctly, both in writing and orally, and in non-technical language.

*Honours Course Prescription:* Inference 3, Linear Models 3, Probability 3, Design of Statistical Investigations 3, Applied Modelling 3, Multivariate Statistics 3, Linear Mixed Models 3, Statistical Computing 3, Analy-

sis of Data 3, Statistics Project 3, Biostatistics 4, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4, Analysis of Data 4.

*Course Co-ordinator:* Prof Stephen Senn

#### OUEF STATISTICS 3M (COMBINED)

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Tutorials: weekly for one hour at a time to be arranged.

*Requirements of entry:* Statistics 2R, 2S, 2X and 2Y (grade C or better) and Mathematics 2R (or 2W), 2S (or 2Z), 2X and 2Y (grade C or better). In addition, a grade point average of at least 14 is required across the four Statistics level 2 courses. Any additional requirement from the other Honours subject must also be satisfied.

*Assessment:* Six written papers (100%)

*Aims:* This degree programme aims: to provide students with a sound grounding in the principles and theory of statistics; to give students some opportunity to develop practical skills in the analysis and modelling of data; to develop in students the ability to apply their knowledge and practical skills to solve problems amenable to statistical analysis, no matter the subject area in which these problems arise; to enable students to enhance their transferable and inter-personal skills, particularly in computer applications, oral and written communication, and problem solving; to provide students with experience of conducting statistical research (primarily through a final-year, research project); to prepare students for employment in a wide variety of contexts where statistical skills are valued, or for further study in statistics, and for engagement in lifelong learning

*Honours Course Prescription:* A subset of: Inference 3, Linear Models 3, Probability 3, Applied Modelling 3, Multivariate Statistics 3, Statistical Computing 3, Linear Mixed Models 3, Design of Statistical Investigations 3, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4 (Combined), Multivariate Inference 5, Advanced Statistical Computing 5, Topics in Statistical Research 5, Combined Research Project 5, Communications Workshop 5

*Course Co-ordinator:* Dr Vincent MacAulay

#### OUFH STATISTICS 3M (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Practicals: Monday and Thursday, 2.00 pm-4.00 pm. Tutorials: weekly for one hour at a time to be arranged.

*Requirements of entry:* Statistics 2R, 2S, 2X and 2Y (grade C or better given an average of B) and Mathematics 2R (or 2W), 2S (or 2Z), 2X and 2Y (grade D or better). In addition, a grade point average of at least 14 is required across the four Statistics level 2 courses.

*Assessment:* Eight written papers and practical paper (75%), data-analysis project (16.7%), practical reports and portfolio of self study material (8.3%)

*Aims:* This degree programme aims: to provide students with a sound grounding in the principles and theory of statistics; to give students the opportunity to develop practical skills in the collection, handling, analysis and modelling of data; to develop in students the ability to apply their knowledge and practical skills to solve problems amenable to statistical analysis, no matter the subject area in which these problems arise; to enable students to enhance their transferable and inter-personal skills, particularly in computer applications and programming, oral and written communication, and problem solving; to provide students with experience as a statistical consultant or researcher (primarily through two extended projects); to prepare students to undertake research in Statistics, for employment in a wide variety of contexts where statistical skills are valued, and for engagement in lifelong learning.

*Honours Course Prescription:* Inference 3, Linear Models 3, Probability 3, Design of Statistical Investigations 3, Applied Modelling 3, Multivariate Statistics 3, Linear Mixed Models 3, Statistical Computing 3, Analysis of Data 3, Statistics Project 3, Biostatistics 4, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4, Analysis of Data 4, Advanced Statistical Computing 5, Statistics Research Project 5 - Single, Communications Workshop 5, Topics in Statistical Research 5, Multivariate Inference 5

*Course Co-ordinator:* Dr Vincent MacAulay

#### 409G STATISTICS 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Tutorials: weekly for two hours at times to be arranged.

*Requirements of entry:* Statistics 3H (Joint) or 3M (Joint) at grade D or better. Any additional requirement from the other Honours subject.

*Excluded Courses:* Statistics 4M

*Assessment:* Carry-over of marks from Statistics 3H (Joint) (50%). Four theory papers (33.3%). Project in Weeks 13-22 (16.7%).

*Degree Examination taken in:* May/June

*Aims:* General skills which the Joint Honours course is designed to provide include: (1) a sound grounding in the principles and theory of statistical inference; (2) a critical, comprehensive, working knowledge of standard statistical methods in everyday use including some use of statistical packages; (3) sufficient grounding to be able to handle at least some non-standard problems; (4) the ability to explain conclusions clearly and correctly and in non-technical language; (5) practical experience of carrying out short statistical tasks using appropriate computing software (gained through limited participation in computer-based practicals and a short final-year project).

*Honours Course Prescription:* A subset of: Inference 3, Linear Models 3, Probability 3, Applied Modelling 3, Multivariate Statistics 3, Statistical Computing 3, Linear Mixed Models 3, Design of Statistical Investigations 3, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4 (Combined).

*Course Co-ordinator:* Prof D Titterington

#### 409J STATISTICS 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Practicals: Tuesday, 11.00 am-1.00 pm and Friday, 2.00 pm-4.00 pm. Tutorials: weekly for two or three hours at times to be arranged.

*Requirements of entry:* Statistics 3H (Single) or 3M (Single) at grade D or better.

*Excluded Courses:* Statistics 4M

*Assessment:* Carry-over of marks from Statistics 3H (Single) (50%); Project in Weeks 13 -22 (16.7%); Seven written papers (29.2%); One practical paper. (3.1%), practical reports (1%)

*Degree Examination taken in:* May/June

*Aims:* General skills which the Single Honours courses both 3H and 4H are designed to provide include: (1) a sound grounding in the principles and theory of statistical methods in everyday use; (2) a critical, comprehensive, working knowledge of standard statistical methods in everyday use; (3) sufficient grounding to be able to handle at least some non-standard problems; (4) experience as a statistical consultant (primarily through project work, carried out under supervision, in which you advise a scientist, doctor or social scientist with problems involving analysis of data); (5) the computing skills necessary to carry out the above; (6) the ability to explain conclusions clearly and correctly, both in writing and orally, and in non-technical language.

*Honours Course Prescription:* Inference 3, Linear Models 3, Probability 3, Design of Statistical Investigations 3, Applied Modelling 3, Multivariate Statistics 3, Linear Mixed Models 3, Statistical Computing 3, Analysis of Data 3, Biostatistics 4, Statistics Project 3, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4, Analysis of Data 4.

*Course Co-ordinator:* Prof D Titterington

#### OUCG STATISTICS 4M (COMBINED)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Tutorials: weekly for two hours at times to be arranged.

*Requirements of entry:* Statistics 3H (Joint) or 3M (Joint) at grade B or better. Any additional requirement from the other Honours subject.

*Assessment:* Four theory papers (67%). Project in Weeks 13-22 (33%).

*Aims:* This degree programme aims: to provide students with a sound grounding in the principles and theory of statistics; to give students some opportunity to develop practical skills in the analysis and modelling of data; to develop in students the ability to apply their knowledge and practical skills to solve problems amenable to statistical analysis, no matter the subject area in which these problems arise; to enable students to enhance their transferable and inter-personal skills, particularly in computer applications, oral and written communication, and problem solving; to provide students with experience of conducting statistical research (primarily through a final-year, research project); to prepare students for employment in a wide variety of contexts where statistical skills are valued, or for further study in statistics, and for engagement in lifelong learning.

*Honours Course Prescription:* A subset of: Inference 3, Linear Models 3, Probability 3, Applied Modelling 3, Multivariate Statistics 3, Statistical Computing 3, Linear Mixed Models 3, Design of Statistical Investigations 3, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4 (Combined), Multivariate Inference 5, Advanced Statistical Computing 5, Topics in Statistical Research 5, Combined Research Project 5, Communications Workshop 5

*Course Co-ordinator:* Dr Vincent MacAulay

### OUJ STATISTICS 4M (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Practicals: Tuesday, 11.00 am-1.00 pm and Friday, 2.00 pm-4.00 pm. Tutorials: weekly for two or three hours at times to be arranged.

*Requirements of entry:* Statistics 3H (Single) or 3M (Single) at grade B or better.

*Assessment:* Project in Weeks 13 -22 (33%); Seven written papers and practical paper. (65%), practical reports (2%)

*Aims:* This degree programme aims: to provide students with a sound grounding in the principles and theory of statistics; to give students the opportunity to develop practical skills in the collection, handling, analysis and modelling of data; to develop in students the ability to apply their knowledge and practical skills to solve problems amenable to statistical analysis, no matter the subject area in which these problems arise; to enable students to enhance their transferable and inter-personal skills, particularly in computer applications and programming, oral and written communication, and problem solving; to provide students with experience as a statistical consultant or researcher (primarily through two extended projects); to prepare students to undertake research in Statistics, for employment in a wide variety of contexts where statistical skills are valued, and for engagement in lifelong learning.

*Honours Course Prescription:* Inference 3, Linear Models 3, Probability 3, Design of Statistical Investigations 3, Applied Modelling 3, Multivariate Statistics 3, Linear Mixed Models 3, Statistical Computing 3, Analysis of Data 3, Statistics Project 3, Biostatistics 4, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4, Analysis of Data 4, Advanced Statistical Computing 5, Statistics Research Project 5 - Single, Communications Workshop 5, Topics in Statistical Research 5, Multivariate Inference 5

*Course Co-ordinator:* Dr Vincent MacAulay

### OUHG STATISTICS 5M (COMBINED)

*Credits:* 60

*Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at times to be arranged. Tutorials: weekly for two hours at times to be arranged.

*Requirements of entry:* Statistics 3M /4M (Joint) at grade B or better. Any additional requirement from the other Honours subject.

*Assessment:* Carry-over of marks from Statistics 3M/4M(Joint) (66%); , Combined Project contributes 40 credits of the Degree Programme in Weeks 1-24 (Statistics is nominally 20 credits), 3 Theory Papers and a Portfolio of work (23%)

*Aims:* This degree programme aims: to provide students with a sound grounding in the principles and theory of statistics; to give students some opportunity to develop practical skills in the analysis and modelling of data; to develop in students the ability to apply their knowledge and practical skills to solve problems amenable to statistical analysis, no matter the subject area in which these problems arise; to enable students to enhance their transferable and inter-personal skills, particularly in computer applications, oral and written communication, and problem solving; to provide students with experience of conducting statistical research (primarily through a final-year, joint research project); to prepare students for employment in a wide variety of contexts where statistical skills are valued, or for further study in statistics, and for engagement in lifelong learning.

*Honours Course Prescription:* A subset of: Inference 3, Linear Models 3, Probability 3, Applied Modelling 3, Multivariate Statistics 3, Statistical Computing 3, Linear Mixed Models 3, Design of Statistical Investigations 3, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4, Multivariate Inference 5, Advanced Statistical Computing 5, Topics in Statistical Research 5, Combined Research Project 5, Communications Workshop 5

*Course Co-ordinator:* Dr Vincent MacAulay

### OUJJ STATISTICS 5M (SINGLE)

*Credits:* 120

*Level:* 5

*When Taught:* Full Session (September - June)

*Timetable:* Lectures: at time to be arranged. Practicals: to be arranged.

*Requirements of entry:* Statistics 3M/4M (Single) at grade B or better.

*Assessment:* Carry-over of marks from Statistics 3M/4M (Single) (66%), Project in Weeks 1-24 (22%); Two theory papers (6%); Portfolio of Practical work (6%)

*Aims:* This degree programme aims: to provide students with a sound grounding in the principles and theory of statistics; to give students the opportunity to develop practical skills in the collection, handling, analysis and modelling of data; to develop in students the ability to apply their knowledge and practical skills to solve problems amenable to statistical analysis, no matter the subject area in which these problems arise; to enable students to enhance their transferable and inter-personal skills, particularly in computer applications and programming, oral and written communication, and problem solving; to provide students with experience as a statistical consultant or researcher (primarily through two extended projects); to prepare students to undertake research in Statistics, for employment in a wide variety of contexts where statistical skills are valued, and for engagement in lifelong learning.

*Honours Course Prescription:* Inference 3, Linear Models 3, Probability 3, Design of Statistical Investigations 3, Applied Modelling 3, Multivariate Statistics 3, Linear Mixed Models 3, Statistical Computing 3, Analysis of Data 3, Biostatistics 4, Statistics Project 3, Inference 4, Further Modelling 4, Stochastic Processes 4, Time Series and Spatial Processes 4, Applied Bayesian Modelling 4, Financial Statistics 4, Statistics Project 4, Analysis of Data 4, Advanced Statistical Computing 5, Statistics Research Project 5 - Single, Communications Workshop 5, Topics in Statistical Research 5, Multivariate Inference 5

*Course Co-ordinator:* Dr Vincent MacAulay

## Theatre Film & T.V. Studies

### LHPU FILM AND TELEVISION STUDIES 1A: READING THE SCREEN - CINEMA

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday, 11-12pm; Wednesday, 11-12pm; Screening: Tuesday, 4-6pm (approx.); seminars weekly.

*Requirements of entry:* Normally open only to students in Arts who have been specifically admitted to this course through UCAS and have achieved the special entry tariff set by the University's Central Admissions Office.

*Co-requisites:* Reading the Screen - Television is a co-requisite for students intending to proceed to Level 2.

*Assessment:* One examination paper (55%), one class essay (35%), and seminar contribution mark (10%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Level One: Overall Aims (1) To provide an introduction to the academic study of film and as a central forms of twentieth-century culture. (2) To identify specific critical methods for the analysis of cinema as text, and to promote an understanding of the social, cultural and industrial contexts in which it is produced. (3) To encourage an approach to cinema and television which recognises their diversity and their historical development. (4) To encourage critical reading and discussion of the literature associated with the study of film. Course Aims: The particular aims of the cinema course are: (1) To study the historical development of film as a visual language with its own specific codes and conventions of representation, and to assess the implications of these codes and conventions for social and cultural meaning. (2) To introduce some of the central debates of film theory and criticism as a foundation for subsequent study. (3) To understand the relationship between the industrial and commercial mode of production of cinema and its aesthetic and cultural forms. (4) To develop a sense of the diversity of cinema in both its classical and non-classical forms, and to recognize the significant differences between Hollywood and European cinema, for example, or between 'classical' Hollywood and contemporary cinema. (5) To encourage critical analysis of films both in essays and in seminar discussion.

*Course Co-ordinator:* Prof John Caughie

### LHQU FILM AND TELEVISION STUDIES 1B: READING THE SCREEN- TELEVISION

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday, 11-12pm; Wednesday, 11-12pm; Screening: Tuesday, 4-6pm (approx.); seminars weekly.

*Requirements of entry:* Normally open only to students in Arts who have been specifically admitted to this course through UCAS and have achieved the special entry tariff set by the University's Central Admissions Office.

*Co-requisites:* Reading the Screen - Cinema is a co-requisite for students intending to proceed to Level 2.

*Assessment:* One examination paper (55%), one class essay (35%), and seminar contribution mark (10%)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Level One: Overall Aims (1) To provide an introduction to the academic study of television as a central form of twentieth-century culture. (2) To identify specific critical methods for the analysis of television as a text, and to promote an understanding of the social, cultural and industrial context in which it is produced. (3) To encourage an approach to cinema and television which recognises their diversity and their historical development. (4) To encourage critical reading and discussion of the literature associated with the study of television. Course Aims: The particular aims of the television course are: (1) To provide an introduction to the systematic study of television as a significant and



distinctive force in modern everyday life. (2) To encourage a critical and theoretical perspective on television texts past and present informed by the institutional contexts that have shaped them. (3) To promote an understanding of the relationship between television's industrial and commercial modes of production and its aesthetic and cultural forms. (4) To explore the major turning points in British television's historical, political and technological development as a way of relating institutional change to shifts in strategies of representation. (5) To investigate a selection of programme forms and genres, both fictional and factual, as part of an analysis of the specificity of television as a visual medium of information and entertainment. (6) To encourage critical analysis of television programmes and institutional history both in essays and in seminar discussion.

*Course Co-ordinator:* Dr Karen Lury

### **JAUU THEATRE STUDIES 1: READING THE STAGE**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* 2 lectures per week (M, W, 4-5pm) plus one 1.5 hour seminar per week for 10 weeks at times to be arranged. No lectures on: M of week 1; M and W of week 7 (reading week); M and W of week 12 (project week). No seminars in week 7 (reading week).

*Assessment:* One 2000 word essay submitted week 8 of semester (40%); one 90 minute examination (consisting one answer) (40%); mark for individual attendance at and contribution to seminar-based group project (20%).

*Aims:* Overall Level 1 Theatre Studies offers a foundational study of theatre as an aesthetic, cultural and institutional form. It aims to: 1. provide an introduction to the academic study of theatre; 2. provide an introduction to a critical methodology for the analysis of theatrical performances, 3. promote an understanding of the social and cultural contexts in which theatrical performances are produced; 4. encourage a critical knowledge of theatrical activity in the past and present, in a variety of geographically and historically different locations; 5. encourage a critical understanding of theatre arts and their practice, and the institutional and personal frameworks which affect them. In particular the Reading the Stage course aims to: 1. provide critical methodologies for the analysis of plays and other theatre texts in performance; 2. provide an introduction to performance theories; and, 3. encourage an understanding of the potential role of performance theories in the analysis of the theatrical text.

*Course Co-ordinator:* Dr Derdre Heddon

### **JBTU THEATRE STUDIES 1: THEATRE AND SOCIETY**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 lectures per week (M, W, 4-5pm); plus one 1.5 hour seminar per week for 10 weeks at times to be arranged. No lectures on: M of week 1; M and

W of week 8 (reading week); and M of week 9 (Easter Monday). No seminars in week 8 (reading week).

*Assessment:* 1 x 2000 word essay submitted week 8 (weighted 40%); 1 x 2 hour exam (consisting 2 equally weighted questions) (weighted at 60%).

*Aims:* Overall Level 1 Theatre Studies offers a foundational study of theatre as an aesthetic, cultural and institutional form. It aims to: 1. provide an introduction to the academic study of theatre; 2. provide an introduction to a critical methodology for the analysis of theatrical performances, 3. promote an understanding of the social and cultural contexts in which theatrical performances are produced; 4. encourage a critical knowledge of theatrical activity in the past and present, in a variety of geographically and historically different locations; 5. encourage a critical understanding of theatre arts and their practice, and the institutional and personal frameworks which affect them. In particular the Theatre and Society course aims to: 1. guide the student towards a critical awareness of the multiple relationships between theatre and society, both historically and in contemporary practices; 2. encourage an understanding of some of the social, political and economic issues affecting theatre practice in Scotland and in Britain whilst also providing appropriate comparators from other countries; 3. open up some of the major cultural debates in contemporary theatre.

*Course Co-ordinator:* Dr Derdre Heddon

### **9AYV FTV2A: HISTORY, AESTHETICS AND GENRE**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Thursday: 2-3pm, Friday: 9-11am  
Seminars and screening: weekly

*Requirements of entry:* Satisfactory completion of both Level 1 courses with neither course attaining less than Grade D.

*Co-requisites:* Film and Television Studies 2B (Spectatorship, Audiences and Identities) is a co-requisite for students intending to proceed to Honours.

*Assessment:* Examination paper (55%), class essay (35%) and seminar contribution mark (10%).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* Level Two: Overall Course Aims (1) To introduce students to key theoretical and critical debates associated with the study of film and television as popular cultural forms. (2) To develop students' skills in textual, historical and industrial analyses of film and television (3) To introduce theories of national and cultural identities as key critical contexts for the study of cinematic and televisual representations, their production and consumption. (4) To encourage critical and reflexive discussion of theories associated with the study of film and television (5) To provide students with a shared foundation in the theory and criticism of film and television.

*Course Co-ordinator:* Dr Dimitris Eleftheriotis

### **9BGV FTV2B: SPECTATORSHIP, AUDIENCES AND IDENTITIES**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Thursday: 2-3pm; Friday: 9-11am  
Seminar and screening: weekly

*Requirements of entry:* Satisfactory completion of both Level 1 courses with neither course attaining less than Grade D.

*Co-requisites:* Film and Television Studies 2A: History and Aesthetics (9AYV\*) is a co-requisite for progress to Honours.

*Assessment:* Class test (35%), class essay (55%) and seminar contribution (10%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* Level Two: Overall Course Aims (1) To introduce students to key theoretical and critical debates associated with the study of film and television as popular cultural forms. (2) To develop students' skills in textual, historical and industrial analyses of film and television (3) To introduce theories of national and cultural identities as key critical contexts for the study of cinematic and televisual representations, their production and consumption. (4) To encourage critical and reflexive discussion of theories associated with the study of film and television (5) To provide students with a shared foundation in the theory and criticism of film and television.

*Course Co-ordinator:* Dr Dimitris Eleftheriotis

### **JBCV THEATRE STUDIES 2:CLASSICAL TO MODERN**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* 2 lectures per week (M, W, 3-4pm) plus 1 hour seminar per week (slots Tu 3-4pm, Tu 4-5pm, Th 3-4pm, Th 4-5pm). No lectures on: M of week 1; M and W of week 7 (reading week). No seminars in week 1 or week 7 (reading week).

*Requirements of entry:* Satisfactory completion of both Level 1 TS courses with neither course attaining less than grade D.

*Assessment:* 1 x 2500 word essay submitted Monday of week 8 (weighted 50%); 1 x 90 minute exam (consisting 1 question) (weighted at 50%).

*Aims:* This course aims to: 1. provide an historical and critical survey of the major dominant forms of theatre practice in Europe up to the early C20; 2. analyse historical, dramatic and performance texts using an appropriate critical vocabulary and with an understanding of relevant social and theatrical conditions; 3. introduce influential theoretical concepts, such as those in Aristotle's Poetics, Neo-classicism, and Naturalism; and, 4. investigate the influence of such movements on dramaturgy and theatre practice within the relevant socio-historical context.

*Course Co-ordinator:* Dr Kathleen Gough

### **JBDV THEATRE STUDIES 2:MODERNISM TO POSTMODERNISM**

*Credits:* 20 *Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* 2 lectures per week (M, W, 3-4pm) plus one 2 hour seminar per week (slots Tu 3-5pm, Th 3-5pm, F 10-12 noon; F 12-2pm). No lectures on: M of week 1; after week 8. No seminars in week 1; presentations in week 12.

*Requirements of entry:* To enter 'TS2: Modernism to Postmodernism' students must have successfully completed 'TS2: Classical to Modern', achieving no less than a D pass.

*Assessment:* 1 x 2500 word essay submitted week 8 (weighted 40%); project mark 60% (consisting individual mark 20%, moderated group mark 20%, individual log book/report of no less than 1500 words 20%)

*Aims:* This course aims to: 1. introduce a number of C20 European and American practitioners whose radical approaches to acting, directing and scenography have reoriented the ways texts are used in theatrical performance; 2. analyse C20 performance texts highlighting visual, performative and multi-media aspects of the stage event; 3. consider such work in relation to broader artistic and cultural movements of Modernism and Postmodernism; and, 4. empower students to bring together theoretical and historical knowledge, textual analysis and practical skills in a problem-solving situation that demands independent research and group interaction.

*Course Co-ordinator:* Dr Kathleen Gough

### **9QQF FILM & TELEVISION STUDIES 3H (JOINT)**

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* As per courses

*Requirements of entry:* A B3 for each FTV Level 2 course, or equivalent, achieved at first sitting.

*Assessment:* Courses (Optional, Core and Dissertation, Junior and Senior Honours) contribute to the overall degree in a weight proportional to their credit rating, i.e. 40 credit courses @ 33.33%, 20 credit courses @ 16.67%. A number of different assessment modes will be used throughout the degree, with individual courses assessed in the way that is considered appropriate. Modes of assessment include short and long essays, analyses of films and television programmes, reviews and reports, formal examinations and class tests, individual and group presentations, individual and group project reports. A minimum of 15% of the assessment will be by formal examination or class tests.

*Degree Examination taken in:* May/June

*Aims:* 1. to provide a range of topics, approaches and methodologies which will enable students to begin to construct a learning programme which will explore aspects of film and/or television studies and their own interests within it; 2. to provide a context for the critical understanding of aesthetic debates in the field and to deepen understanding of selected textual practices; 3.

to provide a context for the understanding of the cultural background and industrial practices within which cinema and/or television are produced and consumed; 4. to provide a context for a historical understanding of the development of film and/or television studies; 5. to foster research skills and an understanding of the appropriate methodologies for the study of film and/or television; 6. to encourage confident and effective presentation of applied work in a range of modes.

*Honours Course Prescription:* Junior Honours students take a Core course which can be either Film Analysis (20 credits) or Television Analysis (20 credits). The remaining required 40 credits can be achieved in a variety of ways: by completing the Media and Cultural Policy course (40 credits); by completing the practical course on Video Production (20 credits) and an additional Optional Honours course (20 credits); or by taking two Optional Honours courses (20 credits each). Optional Honours courses are available to both Junior and Senior Honours students and, each year are drawn from a list which includes the following: Hollywood Cinema in the 1970s, Hollywood Cinema in the 1980s, Hollywood Cinema in the 1990s, Contemporary British Cinema, Documentary, Asian Cinemas, Italian Cinema, Popular European Cinemas, Research Project in European Cinema, Genre Case Study, Australian Film and Television, Screen Performance, Television Drama, New German Cinema, Popular Music in Cinema, Silent Cinema, Film and Television Aesthetics, Children and Television, Television Theory, Feminist Film Theory, Screen Violence, Screen Audiences. Courses are usually repeated every two years so that students are offered maximum choice opportunity. Students will be allowed to take up to one outside Honours courses over the period of their Honours programme. The Honours Convenor must approve the choice of outside course.

*Course Co-ordinator:* Dr Ian Garwood

### 9QSH FILM & TELEVISION STUDIES 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* As per courses

*Assessment:* Courses (Optional, Core and Dissertation, Junior and Senior Honours) contribute to the overall degree in a weight proportional to their credit rating, i.e. 40 credit courses @ 16.67%, 20 credit courses @ 8.33%. A number of different assessment modes will be used throughout the degree, with individual courses assessed in the way that is considered appropriate. Modes of assessment include short and long essays, analyses of films and television programmes, reviews and reports, formal examinations and class tests, individual and group presentations, individual and group project reports. A minimum of 15% of the assessment will be by formal examination or class tests.

*Degree Examination taken in:* May/June

*Aims:* 1. to provide a range of topics, approaches and methodologies which will enable students to begin to construct a learning programme which will reflect the breadth of film and television studies and their own interests within it; 2. to provide a context for the critical

understanding of the aesthetic debates in the field and to deepen understanding of selected textual practices; 3. to provide a context for the understanding of the cultural background and industrial practices within which cinema and television are produced and consumed; 4. to provide a context for a historical understanding of the development of film and television studies; 5. to foster skills in independent and group research and an understanding of the appropriate methodologies for the study of film and television

*Honours Course Prescription:* Junior Honours students take three compulsory Core courses: Film Analysis (20 credits), Television Analysis (20 credits) and Media and Cultural Policy (40 credits). Students who decide to take the practical course on Video Production (20 credits) also take one Optional Honours course (20 credits). Alternatively students can take two Optional Honours courses (20 credits each). Optional Honours courses are available to both Junior and Senior Honours students and, each year are drawn from a list which includes the following: Hollywood Cinema in the 1970s, Hollywood Cinema in the 1980s, Hollywood Cinema in the 1990s, Contemporary British Cinema, Documentary, Asian Cinemas, Italian Cinema, Popular European Cinemas, Research Project in European Cinema, Genre Case Study, Australian Film and Television, Screen Performance, Television Drama, New German Cinema, Popular Music in Cinema, Silent Cinema, Film and Television Aesthetics, Children and Television, Television Theory, Feminist Film Theory, Screen Violence, Screen Audiences. Courses are usually repeated every two years so that students are offered maximum choice opportunity. Students will be allowed to take up to two outside Honours courses over the period of their Honours programme. The Honours Convenor must approve the choice of outside courses.

*Course Co-ordinator:* Dr Ian Garwood

### KNRW LEVEL 3: PROJECT FILM & TELEVISION STUDIES

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* flexible - to be agreed

*Requirements of entry:* Normally a 'C' in both Film and Television modules at Level 2

*Assessment:* Normally written project of 8000 words. Exceptionally - and with the prior agreement of the course convener - students may be permitted to submit their work in alternative formats (e.g. a report, a multi-media presentation) providing they still fulfil the published assessment criteria

*Aims:* This course aims to: 1. To demonstrate independent study of a specific topic in Film & Television Studies at Level 3. 2. To acquire advanced skills in using learning resources such as the library and other sources for extended review of a subject. 3. To display writing and discursive skills suitable for an in-depth study of a topic to Level 3.

*Course Co-ordinator:* Dr Ian Garwood

### **KLDW THEATRE STUDIES 3: CRITICAL THEATRE PRACTICE**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Semester 1 – 10 x 4 hour weekly workshops  
Semester 2 – individual tutorials at times to be arranged

*Requirements of entry:* Admission to TS3: Critical theatre practice required a C pass or better averaged overall across both Level 2 Theatre Studies courses (JBCV and JBDV).

*Excluded Courses:* This course is only available within a General Humanities degree: combinations with any and ALL honours courses are excluded.

*Assessment:* The course is assessed by L ONE project completed for the semester 1 exam diet (35% - moderated group mark based on the presentation; 15% - individual contribution - incorporating 'in-class' activities such as running a warm-up, delivering a workshop, giving an oral presentation; 15% - 2500 word reflective journal); and, ONE 3500 word essay submitted for the semester 2 exam diet (35%).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The Level 3 course TS3: Critical Theatre Practice aims to : 1. explore some of the major cultural debates in contemporary theatre practice; 2. provide practical and critical methodologies for the exploration of key issues and themes in the study of theatre; 3. empower students to bring together theoretical and historical knowledge, textual analysis and practical skills in a problem-solving situation that demands independent research and group interaction; 4. encourage a critical understanding of practice as a research methodology and critical output.

*Course Co-ordinator:* Dr Adrienne Scullion

### **KLEW THEATRE STUDIES 3: GROUP PROJECT**

*Credits:* 40

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* 10 x 4 hour weekly workshops

*Requirements of entry:* TS3: Group project is the 'early exit' version of TS3: Critical theatre practice and is only available to suitably qualified visiting students enrolling for semester 1 only. All other categories of student pursuing L3 in TS must enrol in the 60 credit two-semester course.

*Assessment:* The course is assessed by one project completed for the semester 1 exam diet (50% - moderated group mark; 20% - individual contribution - incorporating 'in-class' activities such as running a warm-up, delivering a workshop, giving an oral presentation; 30% - 2500 word reflective journal).

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* The course aims to - 1. explore some of the major cultural debates in contemporary theatre practice; 2. provide practical methodologies for the exploration of key issues and themes in the study of theatre; 3.

empower students to bring together theoretical historical knowledge, textual analysis and practical skills in a problem-solving situation that demands independent research and group interaction; and, 4. encourage a critical understanding of practice as a research methodology and critical output.

*Course Co-ordinator:* Dr Adrienne Scullion

### **101F THEATRE STUDIES 3H (JOINT)**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday, generally p.m.

*Requirements of entry:* B pass or better overall across both Level 2 Theatre Studies courses and fulfilling the normal Faculty requirements for entry to Honours

*Co-requisites:* Acceptance into Joint Honours by another relevant Department and compliance with Arts Faculty regulations on Honours entry.

*Assessment:* Students take 120 credits of TS courses over the two year joint honours programme but must include: two Theatre Studies core courses (Performance Theory and Analysis in the Junior Honours year and Current Issues in the Senior Honours year); and, one Practical option (in the Junior Honours year). In addition all joint honours students must complete one independent research project (Dissertation) as part of their graduating curriculum and, if this is in Theatre Studies, it must be completed in the Senior Honours Year. Courses are generally equally weighted 20 credit courses but may be double-weighted 40 credit courses. A number of different assessment modes are used throughout the degree, with individual courses assessed in a manner appropriate to their learning outcomes. Modes of assessment include short and long essays, practical work, reflective reports, individual and group presentations.

*Aims:* (1) To give students the opportunity to become proficient in a variety of approaches to the study of theatre, viz. the techniques of historical, sociological and theoretical analysis of the theatrical process, past and present. (2) To encourage students to test theoretical concepts by means of practical experimentation and to make a critical assessment of the results achieved. (3) To increase students' awareness of current debates surrounding the provision of theatre and allied arts in the United Kingdom, Europe and beyond, and to facilitate their informed contribution to such debates. (4) To facilitate the establishment of links between students and the professional theatre in Scotland by means of the employment of visiting professional practitioners to teach or lecture, theatre visits and placement schemes. (5) To promote in students a facility to communicate both orally and in writing on topics relevant to the Theatre Studies course. (6) To develop further in students the ability to work together in groups and/or teams, and to develop their ability to report coherently on collective or individual findings with rigour and constructive self-assessment.

*Honours Course Prescription:* 3H year One core course - Performance Theory and Analysis One practical course - chosen from an approved selection. One optional course - chosen from an approved selection.

*Course Co-ordinator:* Dr Anselm Heinrich

### 101H THEATRE STUDIES 3H (SINGLE)

*Credits:* 120

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday, generally p.m.

*Requirements of entry:* B pass or better in both Level 2 Theatre Studies courses and fulfilling the normal Faculty requirements for entry to Honours.

*Assessment:* Students take 240 credits of Theatre Studies courses over the two year joint honours programme but must include: three Theatre Studies core courses (Performance Theory and Analysis and the Group project in the Junior Honours year, and Current Issues in the Senior Honours year); one practical option (in the Junior Honours year); one Project element (in the Senior Honours Year); and, one independent research project (Dissertation) to be completed in the Senior Honours Year. Courses are generally equally weighted 20 credit courses but may be double weighted 40 credit courses. A number of different assessment modes are used throughout the degree, with individual courses assessed in a manner appropriate to their learning outcomes. Modes of assessment include short and long essays, practical work, reflective reports, individual and group presentations.

*Degree Examination taken in:* May/June

*Aims:* (1) To give students the opportunity to become proficient in a variety of approaches to the study of theatre, viz. the techniques of historical, sociological and theoretical analysis of the theatrical process, past and present. (2) To encourage students to test theoretical concepts by means of practical experimentation and to make a critical assessment of the results achieved. (3) To increase students' awareness of current debates surrounding the provision of theatre and allied arts in the United Kingdom, Europe and beyond, and to facilitate their informed contribution to such debates. (4) To facilitate the establishment of links between students and the professional theatre in Scotland by means of the employment of visiting professional practitioners to teach or lecture, theatre visits and placement schemes. (5) To promote in students a facility to communicate both orally and in writing on topics relevant to the Theatre Studies course. (6) To develop further in students the ability to work together in groups and/or teams, and to develop their ability to report coherently on collective or individual findings with rigour and constructive self-assessment.

*Course Co-ordinator:* Dr Anselm Heinrich

### 9QRG FILM & TELEVISION STUDIES 4H (JOINT)

*Credits:* 60

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* As per courses

*Requirements of entry:* A B3 for each FTV Level 2 course, or equivalent, achieved at first sitting.

*Assessment:* Courses (Optional, Core and Dissertation, Junior and Senior Honours) contribute to the overall de-

gree in a weight proportional to their credit rating, i.e. 40 credit courses @ 33.33%, 20 credit courses @ 16.67%. A number of different assessment modes will be used throughout the degree, with individual courses assessed in the way that is considered appropriate. Modes of assessment include short and long essays, analyses of films and television programmes, reviews and reports, formal examinations and class tests, individual and group presentations, individual and group project reports. A minimum of 15% of the assessment will be by formal examination or class tests.

*Degree Examination taken in:* May/June

*Aims:* 1. to provide a range of topics, approaches and methodologies which will enable students to complete a learning programme which explores key areas in film and/or television studies and reflects their own interests in the discipline; 2. to provide a context for the advanced critical understanding of selected aesthetic, cultural and historical debates in film and/or television studies; 3. to provide a context for the confident and critical application of theoretical approaches and methods to specialised areas of cinema and/or television; 4. to refine skills in independent research and encourage advanced levels of scholarship in response to current academic research in selected fields of study; 5. to consolidate effective presentational skills appropriate for the activities being undertaken and the context in which they are presented.

*Honours Course Prescription:* Senior Honours students select two Optional Honours courses (20 credits each) and complete a Joint Honours Dissertation (20 credits). Students who are doing a Dissertation as part of their other subject programme are given the possibility of not doing a Dissertation for Film and Television Studies but taking an Optional Honours course (20 credits) instead.

*Course Co-ordinator:* Prof John Caughie

### 9QXJ FILM & TELEVISION STUDIES 4H (SINGLE)

*Credits:* 120

*Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* as per course

*Assessment:* Courses (Optional, Core and Dissertation, Junior and Senior Honours) contribute to the overall degree in a weight proportional to their credit rating, i. e. 40 credits courses @ 16.67%, 20 credits courses @ 8.33%. A number of different assessment modes will be used throughout the degree, with individual courses assessed in the way that is considered appropriate. Modes of assessment include short and long essays, analyses of films and television programmes, reviews and reports, formal examinations and class tests, individual and group presentations, individual and group project reports. A minimum of 15% of the assessment will be by formal examination or class tests.

*Degree Examination taken in:* May/June

*Aims:* 1. to provide a range of topics, approaches and methodologies which will enable students to complete a learning programme which will reflect the breadth of films and television studies and their own interests within it; 2. to provide a context for the advanced crit-

ical understanding of the aesthetic, cultural and historical debates in film and television studies; 3. to provide a context for the confident and critical application of theoretical approaches and methods to specialised areas of cinema and/or television; 4. to refine skills in independent research and encourage advanced levels of scholarship in response to current academic research in selected fields of study; 5. to consolidate effective presentational skills appropriate for the activities being undertaken and the context in which they are presented.

*Honours Course Prescription:* Senior Honours students select four Optional Honours courses (20 credits each) and complete a Single Honours Dissertation (40 credits). Optional Honours courses are available to both Junior and Senior Honours students and, each year are drawn from a list which includes the following: Hollywood Cinema in the 1970s, Hollywood Cinema in the 1980s, Hollywood Cinema in the 1990s, Contemporary British Cinema, Documentary, Asian Cinemas, Italian Cinema, Popular European Cinemas, Research Project in European Cinema, Genre Case Study, Australian Film and Television, Screen Performance, Television Drama, New German Cinema, Popular Music in Cinema, Silent Cinema, Film and Television Aesthetics, Children and Television, Television Theory, Feminist Film Theory, Screen Violence, Screen Audiences. Courses are usually repeated every two years so that students are offered maximum choice opportunity. Students will be allowed to take up to two outside Honours courses over the period of their Honours programme. The Honours Convenor must approve the choice of outside courses.

*Course Co-ordinator:* Prof John Caughie

### 101G THEATRE STUDIES 4H (JOINT)

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday, generally p.m.

*Requirements of entry:* Theatre Studies 2 at Grade B, obtained at first sitting.

*Co-requisites:* Acceptance into Joint Honours by another relevant Department and compliance with Arts Faculty regulations on Honours entry.

*Assessment:* One core course – Current issues – 15 credits – take away paper One dissertation – 30 credits – 75% finished thesis and 25% 'process' mark One option course – 15 credits – 50% exam and 50% course work

*Degree Examination taken in:* May/June

*Aims:* (1) To give students the opportunity to become proficient in a variety of approaches to the study of theatre, viz. the techniques of historical, sociological and theoretical analysis of the theatrical process, past and present. (2) To encourage students to test theoretical concepts by means of practical experimentation and to make a critical assessment of the results achieved. (3) To increase students' awareness of current debates surrounding the provision of theatre and allied arts in the United Kingdom, Europe and beyond, and to facilitate their informed contribution to such debates. (4) To facilitate the establishment of links between students and the professional theatre in Scotland by means of the em-

ployment of visiting professional practitioners to teach or lecture, theatre visits and placement schemes. (5) To promote in students a facility to communicate both orally and in writing on topics relevant to the Theatre Studies course. (6) To develop further in students the ability to work together in groups and/or teams, and to develop their ability to report coherently on collective or individual findings with rigour and constructive self-assessment.

*Honours Course Prescription:* 4H year One core course – Current issues One dissertation One optional course

*Course Co-ordinator:* Dr Victoria Price

### 101J THEATRE STUDIES 4H (SINGLE)

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* Monday to Friday, generally p.m.

*Requirements of entry:* Theatre Studies 2 at Grade B, obtained at first sitting.

*Assessment:* Students take a total of twelve courses over the two year single honours programme: six in the JH year and six in the SH year. JH: Performance Analysis – course work and essay (7.5%); Practical pathway – project and report (10%); three optional courses – course work and essay (22.5%); one group project – project and report (10%). SH: Current issues – take away paper at the end of the semester (7.5%); Dissertation (10%); two optional courses – course work and exam (15%); Cultural policy – report at the end of the semester (7.5%); Project element – Practical option or Double-weighted dissertation or Work placement (10%). Percentages are of total Honours assessment. Options offered vary from session to session.

*Degree Examination taken in:* May/June

*Aims:* (1) To give students the opportunity to become proficient in a variety of approaches to the study of theatre, viz. the techniques of historical, sociological and theoretical analysis of the theatrical process, past and present. (2) To encourage students to test theoretical concepts by means of practical experimentation and to make a critical assessment of the results achieved. (3) To increase students' awareness of current debates surrounding the provision of theatre and allied arts in the United Kingdom, Europe and beyond, and to facilitate their informed contribution to such debates. (4) To facilitate the establishment of links between students and the professional theatre in Scotland by means of the employment of visiting professional practitioners to teach or lecture, theatre visits and placement schemes. (5) To promote in students a facility to communicate both orally and in writing on topics relevant to the Theatre Studies course. (6) To develop further in students the ability to work together in groups and/or teams, and to develop their ability to report coherently on collective or individual findings with rigour and constructive self-assessment.

*Course Co-ordinator:* Dr Victoria Price

## Theology and Religious Studies

### 8WFU BIBLICAL STUDIES 1A: OLD TESTAMENT/TANAKH

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 1 (September - January)  
*Timetable:* Lectures: Tuesday, Thursday, Friday 9.00 am  
 Tutorials: Monday, Wednesday 9.00am  
*Requirements of entry:* None  
*Co-requisites:* None  
*Excluded Courses:* None  
*Assessment:* 1 essay or project (50%); 1 two hour end of course exam (50%)  
*Degree Examination taken in:* January  
*Resit Examination taken in:* August/September  
*Aims:* To introduce students to critical study of the English Bible and issues in its interpretation, with special reference to the Old Testament.  
*Course Co-ordinator:* Dr Yvonne Sherwood

### 0HTU BIBLICAL STUDIES 1B: NEW TESTAMENT

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 2 (January - June)  
*Timetable:* Lectures: Tuesday, Thursday, Friday 9.00 am  
 Tutorials: Monday, Wednesday 9.00am  
*Requirements of entry:* None  
*Co-requisites:* None  
*Excluded Courses:* None  
*Assessment:* 1 x 1500 word essay (50% weighting); 2 hour end of course examination in May/June(50% weighting);  
*Degree Examination taken in:* May/June  
*Resit Examination taken in:* August/September  
*Aims:* To provide a broad introduction to the criticism and interpretation of the New Testament  
*Course Co-ordinator:* Dr Ward Blanton

### 9GRU CHRISTIANITY 1B: THEOLOGY

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 2 (January - June)  
*Timetable:* Lectures: Monday, Tuesday, Thursday 11am  
 Tutorials: Wednesday and Friday 11am  
*Excluded Courses:* It is not possible to take both this course and its distance learning version.  
*Assessment:* Coursework essay of 1,500 words. Project of 1,500 words (excluding appendices). Students are also required to complete a compulsory but non-assessed record of their learning progress through the course.  
*Degree Examination taken in:* May/June  
*Resit Examination taken in:* August/September  
*Aims:* To explore the various sources (e.g. scripture, tradition, reason and experience) from which Christian theology has emerged within the life of the Church. To

generate an awareness of key concepts in Christian theology and how these form a living tradition which is responsive to historical and cultural change. To provide the resources through which students can engage with Christian theology in order to formulate their own responses to issues of contemporary concern.

*Course Co-ordinator:* Dr Heather Walton

### 156U CLASSICAL HEBREW LANGUAGE I

*Credits:* 20 *Level:* 1  
*When Taught:* Full Session (September - June)  
*Timetable:* Monday, Tuesday 10-11am  
*Assessment:* Assessed homework (25% weighting); 1.5 hours class examination in January (25% weighting); 2 hour end of course examination in May/June (50% weighting).  
*Degree Examination taken in:* May/June  
*Aims:* To cover the basics of classical (Biblical) Hebrew sufficiently to enable independent reading of narrative materials in the Hebrew Bible.  
*Course Co-ordinator:* Dr Sarah Nicholson

### 9GPU HISTORY OF CHRISTIANITY: 1A CHURCH HISTORY

*Credits:* 20 *Level:* 1  
*When Taught:* Semester 1 (September - January)  
*Timetable:* Lectures: Monday, Tuesday, Thursday 3pm  
 Tutorials: Wednesday and Friday 11am  
*Requirements of entry:* None  
*Co-requisites:* None  
*Assessment:* 1 x 1500 word essay (50% weighting); 2 hour end of course examination in January (50% weighting)  
*Degree Examination taken in:* January  
*Resit Examination taken in:* August/September  
*Aims:* Introduction to the broad history of Christianity: origins, major turning points and phases, key personalities and writings, self-understanding and evolving thought-patterns. Content: Lectures follow a series of essential topics illustrating the main contours and landmarks of Christianity's evolution, internal and external, from the first to the twentieth centuries. Highlighted are the varieties of interface between Church, societies and cultures. The origins of modern Christian diversity and pluriformity, nationally and internationally, will be explained. The global approach of the lectures will be balanced by exposure in the tutorials to samples of original documentary sources.  
*Course Co-ordinator:* Prof William Hazlett

### 456U NEW TESTAMENT GREEK 1

*Credits:* 20 *Level:* 1  
*When Taught:* Full Session (September - June)  
*Timetable:* Lectures: Tuesday, Thursday and Fridays 12.00pm - 1.00pm  
*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* Greek 1A

*Assessment:* Assessed Homework (25% weighting) Exams: 1.5 hour Class exam in January (25% weighting) 2 hour end of course exam in May/June (50% weighting)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To acquire a reading knowledge of New Testament Greek.

*Course Co-ordinator:* Mrs Linda Knox

### **8VCU WORLD RELIGIONS 1A: JUDAISM, CHRISTIANITY AND ISLAM**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 1 (September - January)

*Timetable:* Lectures: Monday, Tuesday, Thursday 4.00 pm Seminars: Wednesday, Friday 4.00 pm

*Requirements of entry:* None

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* Class essay (50% weighting); 2 hour end of course exam in May/June (50% weighting)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* Students will examine the approach taken by three major monotheistic religions - Judaism, Christianity and Islam - to three major areas of concern: Belief, Religion in Society and Texts and Scriptures.

*Course Co-ordinator:* Prof Mona Siddiqui

### **8VDU WORLD RELIGIONS 1B: EASTERN RELIGIONS**

*Credits:* 20

*Level:* 1

*When Taught:* Semester 2 (January - June)

*Timetable:* Lectures: Monday, Tuesday, Thursday 4.00 pm Seminars: Wednesday, Friday 4.00 pm

*Requirements of entry:* None

*Assessment:* Class essay (50% weighting); 2 hour end of course exam in June (50% weighting)

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* The course aims to provide an introduction to the history of the major religious traditions of the east, designed to form part of an Arts, Divinity or Social Science degree and to provide a basis for further work in the field of religious studies.

*Course Co-ordinator:* Prof Perry Schmidt-Leukel

### **0GUV BIBLICAL STUDIES 2A: OLD TESTAMENT/ TANAKH TEXTS**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday and Friday, 2-4 p.m.

*Requirements of entry:* Grade D or better in any Level 1 Theology & Religious Studies option.

*Co-requisites:* None

*Excluded Courses:* Old Testament/Tanakh Texts (English)

*Assessment:* One essay of 2000 words (40% weighting); Project (20% weighting); End of course exam (2 hours) (40% weighting).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To build on the general knowledge of the texts gained in Level 1. To engage in close reading of selected texts from Torah and Prophets. To relate biblical texts to a variety of religious and secular contexts.

*Course Co-ordinator:* Dr Alastair Hunter

### **0UAV BIBLICAL STUDIES 2A: OLD TESTAMENT/ TANAKH TEXTS (HEBREW)**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday and Friday, 2-4 p.m.

*Requirements of entry:* Hebrew 1 or equivalent at grade D or better

*Co-requisites:* None

*Excluded Courses:* Old Testament/Tanakh Texts (English)

*Assessment:* One essay of 2000 words (40% weighting); Hebrew class exam (20% weighting); End of course exam (2 hours) (40% weighting).

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To build on the general knowledge of the texts gained in Level 1. To engage in close reading of selected texts from Torah and Prophets. To relate biblical texts to a variety of religious and secular contexts. To acquire advanced skills in reading and interpreting selected Tanakh texts in Hebrew.

*Course Co-ordinator:* Dr Alastair Hunter

### **KDLV BIBLICAL STUDIES 2B: STUDY OF A NEW TESTAMENT TEXT**

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday and Friday, 2-4 p.m.

*Requirements of entry:* Normally grade D or better in any Level 1 course, preferably in BIBS 1B.

*Co-requisites:* None

*Excluded Courses:* Students who follow this course are unable to follow what is the Greek version of this course, Biblical Studies 2B: New Testament Texts (Greek).

*Assessment:* 2 pieces of course work of 2,000 words (60% weighting). 2 hour end of course exam in January (40% weighting)

*Aims:* This course introduces students to the close reading of select New Testament texts. This time round the emphasis will pass on texts reading to Paul. Appropriate attention will be given to questions of method.

*Course Co-ordinator:* Mr Paul Holloway



### KDMV BIBLICAL STUDIES 2B: STUDY OF A NEW TESTAMENT TEXT (GREEK)

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday and Friday, 2-4 p.m.

*Requirements of entry:* Normally grade D or better in any non-language Level 1 course, preferably in BIBS 1B. Level 1 Greek or its equivalent at D or better.

*Co-requisites:* None

*Excluded Courses:* The non-Greek option: Bibs 2B: Study of a New testament Text is not available to those following this Greek option.

*Assessment:* 1 piece of course work of 2,000 words (30% weighting). 2 hour end of course exam in January (40% weighting). Greek class test (30%).

*Aims:* This course introduces students to the close reading of select New Testament texts in Greek. This time round the emphasis will fall on texts relating to Paul. Appropriate attention will be given to questions of method.

*Course Co-ordinator:* Mr Paul Holloway

### JTEV CHRISTIANITY 2 A: CHURCH IN SCOTLAND

*Credits:* 20

*Level:* 2

*When Taught:* Semester 1 (September - January)

*Timetable:* Monday & Friday 9-11am

*Requirements of entry:* Successful completion of Theology level 1 course gaining a D or better.

*Assessment:* · An essay of 2000 words exploring either a particular historical period in the life of the Scottish Church. (30%) · An essay of 2000 words interrogating a theme of particular significance within the Scottish context (30%) · A project of 2,500 words exploring an aspect of the life of a Scottish Christian community (40%)

*Aims:* · To introduce students to the history of Christianity in Scotland since the Victorian era. · To examine major themes that have emerged as significant for the churches in the Scottish context including social responsibility, sectarianism, ecumenism, mission and decline · To demonstrate how the emerging discipline of congregational studies can be used to gain an understanding of the dynamics of Church life at local level. · To explore how local churches and Christian organizations are seeking to develop forms of Christian community appropriate to their contemporary cultural context.

*Course Co-ordinator:* Dr Heather Walton

### JTGV CHRISTIANITY 2B: THEOLOGY AND ETHICS

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Monday & Friday 9-11am

*Requirements of entry:* Grade D or better in any Level 1 theology course

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* 1 x 2000 word essay (40% weighting), 3 hour end of course written examination (60% weighting)

*Aims:* To introduce students to the main developments in Christian theology from 1750 to the present. To introduce students to the study of Christian ethics, and how it has taken shape in the modern era.

*Course Co-ordinator:* Ms Julie Clague

### JUSV CHRISTIANITY 2C: CHURCH, MINISTRY AND WORSHIP

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday & Thursday 9-11

*Requirements of entry:* Normally grade D or better in a level 1 course, preferably either Christianity 1A or 1B.

*Assessment:* · An essay of 2500 words exploring either the nature and mission of the church in terms of the history of doctrine or through the work of a modern/postmodern theologian; OR · An essay of 2500 words on the nature of ordination within episcopal and non-episcopal traditions. (40%) · A project of 3,000 words exploring an aspect of worship practice in contemporary Scottish church life. (60%)

*Aims:* · To address themes and topics relevant to the practice of Christian ministry within the contemporary world, with particular reference to the Scottish context. · To introduce students to major topics within ecclesiology - the nature and mission of the church; theologies of ordination and church order; the history and practice of Christian worship - and to the critical debates surrounding them in contemporary Christian theology. · To develop an informed and critical approach to contemporary worship practice · To consider how missiological concerns should inform the practice of the contemporary church.

*Course Co-ordinator:* Rev Douglas Gay

### JBNV WORLD RELIGIONS 2A: ISLAM

*Credits:* 20

*Level:* 2

*When Taught:* Semester 2 (January - June)

*Timetable:* Tuesday and Thursday 3-5pm

*Requirements of entry:* Grade D or better in any non-language level 1 course in Theology & Religious Studies, or Grade D or better in Arabic Level 1

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* 2 pieces of course work (40%), 2 hour end-of-course exam (60%)

*Aims:* This course seeks to address common misperceptions of Islam's approach to pluralism, the position of women and ethics. It will examine such issues by investigating what the Qur'an says about pluralism, the role of women and various ethical issues. In addition, the course will outline how later Islamic thinkers have interpreted these Qur'anic injunctions and how they have

been perceived and practiced within the Islamic community.

*Course Co-ordinator:* Prof Mona Siddiqui

### **90CE DISSERTATION (GENERAL)**

*Credits:* 60 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* None

*Requirements of entry:* Credits gained at E or better in at least one Level 1 and one Level 2 course in the general field of Theology and Religious Studies. These must be within the topic chosen for the dissertation.

*Co-requisites:* None

*Excluded Courses:* None

*Assessment:* One 12,000 word dissertation.

*Degree Examination taken in:* May/June

*Resit Examination taken in:* August/September

*Aims:* To study a specific topic at an advanced level.

*Course Co-ordinator:* Dr Ward Blanton

### **JXAW DISSERTATION 3 (DIVINITY)**

*Credits:* 30 *Level:* 3

*When Taught:* Semester 2 (January - June)

*Timetable:* None.

*Requirements of entry:* Admission to level 3 programme.

*Co-requisites:* None

*Excluded Courses:* 60 Credit level 3 Dissertation honours dissertation (self-evidently)

*Assessment:* One 6,000 word dissertation.

*Aims:* To demonstrate independent study of specific topic in Theology and Religious Studies at level 3. To acquire advanced skills in using learning resources such as the library and other sources for extended review of a subject. To display writing and discursive skills suitable for in-depth study of a topic to level 3.

*Course Co-ordinator:* Dr Sarah Nicholson

### **4FLH DIVINITY (MINISTRY) HONOURS 3H (SINGLE)**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Religious Studies 1A and 1B; Biblical Studies 1A and 1B; Theology and Church History 1A and 1B; 40 Arts credits; three Level 2 Theology and Religious Studies courses. All courses at average of grade D with at least one grade C.

*Assessment:* Three pieces of course work 30%; One three hour degree examination 70%

*Degree Examination taken in:* May/June

*Aims:* (1) To provide a wide-ranging core curriculum of courses in the disciplines associated with Theology and Religious Studies at Levels 1 and 2. (2) To enable students to pursue independent study of a chosen selection of the relevant disciplines in depth by means of primary and secondary texts, using original languages

where appropriate, discussion with recognised experts in the disciplines, and interaction with fellow students. (3) To help students to make connections between different disciplines and to reflect creatively on the connections thus effected. (4) To encourage and extend students' powers of original thought and to afford a context for this in the form of discussion papers and dissertations using bibliographical resources. (5) To encourage the development of a range of generic and transferable skills such as willingness to learn, good communication skills, analytic ability, logical argument, the ability to summarise key issues, problem solving skills, and the ability to work well with others. (6) To encourage students to reflect on the ways in which both academic learning and generic skills relate to the wider society in which they live.

*Honours Course Prescription:* Four 30-credit courses drawn from Theology and Religious Studies honours courses

*Course Co-ordinator:* Dr Ward Blanton

### **4FKH DIVINITY HONOURS 3H (SINGLE)**

*Credits:* 120 *Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Religious Studies 1A and 1B; Biblical Studies 1A and 1B; Theology and Church History 1A and 1B; 40 Arts Credits; three Level 2 Theology and Religious Studies courses. All courses at average of grade D with at least one grade C.

*Assessment:* Three pieces of course work 30%; One three hour degree examination 70%

*Degree Examination taken in:* May/June

*Aims:* (1) To provide a wide-ranging core curriculum of courses in the disciplines associated with Theology and Religious Studies at Levels 1 and 2. (2) To enable students to pursue independent study of a chosen selection of the relevant disciplines in depth by means of primary and secondary texts, using original languages where appropriate, discussion with recognised experts in the disciplines, and interaction with fellow students. (3) To help students to make connections between different disciplines and to reflect creatively on the connections thus effected. (4) To encourage and extend students' powers of original thought and to afford a context for this in the form of discussion papers and dissertations using bibliographical resources. (5) To encourage the development of a range of generic and transferable skills such as willingness to learn, good communication skills, analytic ability, logical argument, the ability to summarise key issues, problem solving skills, and the ability to work well with others. (6) To encourage students to reflect on the ways in which both academic learning and generic skills relate to the wider society in which they live.

*Honours Course Prescription:* Four 30-credit courses drawn from Theology and Religious Studies honours courses

*Course Co-ordinator:* Dr Ward Blanton

**KXCW EARLY CHURCH HISTORY  
LEVEL 3 (ONLY AVAILABLE IN  
2007-2008)**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Mondays: one two-hour session per week.

*Requirements of entry:* Admission to Level 3 of a General Degree and subject to prerequisite, or to Level 2 but subject to pre-requisite with pass at Grade C at least.

Open to General Degree students admitted to level 3 who have passed Christianity 1A (or approximate equivalent), or General Degree Level 2 students who have passed Christianity 1A with at least a Grade C pass.

*Aims:* To provide the means of acquiring a deeper knowledge and understanding of the development of Christianity in the religious, political and cultural worlds of Late Antiquity. To induct the class further into substantial, original documentary sources in English translation. To enable enhanced awareness of various historiographical and theological interpretations, past and present.

*Course Co-ordinator:* Prof William Hazlett

**JXHW OLD TESTAMENT/TANAKH  
TEXTS 3**

*Credits:* 30

*Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* Tuesdays 11am-1pm

*Requirements of entry:* Completion of courses in Theology & Religious Studies at Levels 1 and 2 at grade D or better, normally including at least one of Biblical Studies 1A or Biblical Studies 2A.

*Assessment:* One essay of 3000 words (40% weighting) Presentation of work in progress towards essay (10% weighting) End of course exam (3 hours) (50% weighting)

*Degree Examination taken in:* May/June

*Aims:* To build on the general knowledge of the texts gained in Levels 1 and/or 2 To engage in close reading of selected texts from different divisions of Tanakh. To relate biblical texts to a variety of religious and secular contexts. To become familiar with a range of theoretical interpretative approaches to texts.

*Course Co-ordinator:* Dr Alastair Hunter

**KYPW PRACTICAL THEOLOGY LEVEL  
3**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Generally one 2-hour lecture or reflection group per week of session. Occasional variations due to placement programme. Dates and times to be arranged.

*Requirements of entry:* Open to general degree students admissible to Level 3 of the programme who have passed Christianity 1b (or appropriate equivalent as agreed with convener) at Grade C at least.

*Aims:* To critically consider significant areas of Christian practice (such as worship, homiletics and pastoral care) in the light of contemporary scholarship To assess a variety of models of Christian practice in order that students become more aware of the values, assumptions and traditions that shape their own understanding of Practical Theology To enable students to think reflexively about their own practice through employing such techniques as journaling, life writing and reflective group work

*Course Co-ordinator:* Dr Heather Walton

**KXBW SUFISM LEVEL 3 (ONLY  
AVAILABLE IN 2007-2008)**

*Credits:* 30

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* Tuesdays: two hours per week.

*Requirements of entry:* Admission to Level 3 of a general degree and subject to prerequisite, or to Level 2 but subject to prerequisite with pass at Grade C at least.

Open to general degree students admitted to level 3 who have passed World Religions 1A (or approximate equivalent); or general degree level 2 students who have passed World Religions 1A with at least a Grade C pass.

*Aims:* To offer a history of Sufism from its origins to the present, showing its diversity in ritual and belief. Topics covered will include the formation of Sufism from various pietistic movements, Sufi theology, Sufism and gender, Sufism and power, and there will also be an examination of Sufism in the modern period covering Africa, the Middle East, the Indian sub-continent and Europe.

*Course Co-ordinator:* Dr Lloyd Ridgeon

**4EXF THEOLOGY AND RELIGIOUS  
STUDIES 3H (JOINT) M.A.**

*Credits:* 60

*Level:* 3

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Two of Biblical Studies 1A and 1B, Theology and Church History 1A and 1B, Religious Studies 1A and 1B, plus two level 2 Divinity courses. All courses at average of grade D with at least one grade C.

*Assessment:* Four papers with course work (30%), 3 hour degree examinations (70%) for each OR three papers as above and a dissertation.

*Degree Examination taken in:* May/June

*Aims:* (1) To provide a wide-ranging core curriculum of courses in the disciplines associated with Theology and Religious Studies at Levels 1 and 2. (2) To enable students to pursue independent study of a chosen selection of the relevant disciplines in depth by means of primary and secondary texts, using original languages where appropriate, discussion with recognised experts in the disciplines, and interaction with fellow students. (3) To help students to make connections between different disciplines and to reflect creatively on the connections thus effected. (4) To encourage and extend students' powers of original thought and to afford a context for

this in the form of discussion papers and dissertations using bibliographical resources. (5) To encourage the development of a range of generic and transferable skills such as willingness to learn, good communication skills, analytic ability, logical argument, the ability to summarise key issues, problem solving skills, and the ability to work well with others. (6) To encourage students to reflect on the ways in which both academic learning and generic skills relate to the wider society in which they live.

### **1AHW WISDOM LITERATURE IN THE OLD TESTAMENT**

*Credits:* 30 *Level:* 3

*When Taught:* Semester 1 (September - January)

*Timetable:* One two hour session per week, plus tutorials

*Requirements of entry:* Grade D or better in at least one Level 1 and Level 2 course in Theology & Religious Studies, including at least one Biblical course.

*Co-requisites:* None

*Excluded Courses:* Level two versions of the wisdom course (including one in distance form).

*Assessment:* One 3,000 word essay (50% weighting) and one three-hour end of course examination (50% weighting)

*Degree Examination taken in:* January

*Resit Examination taken in:* August/September

*Aims:* To explore the definition of wisdom as literary genre and to discuss its significance for the interpretation of certain Old Testament traditions and texts

*Course Co-ordinator:* Dr Alastair Hunter

### **4FLJ DIVINITY (MINISTRY) HONOURS 4H (SINGLE)**

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Religious Studies 1A and 1B; Biblical Studies 1A and 1B; Theology and Church History 1A and 1B; 40 Arts credits; three Level 2 Theology and Religious Studies modules. All courses at average of grade D with at least one grade C.

*Assessment:* Three pieces of course work 30%; One three hour degree examination 70%

*Degree Examination taken in:* May/June

*Aims:* (1) To provide a wide-ranging core curriculum of courses in the disciplines associated with Theology and Religious Studies at Levels 1 and 2. (2) To enable students to pursue independent study of a chosen selection of the relevant disciplines in depth by means of primary and secondary texts, using original languages where appropriate, discussion with recognised experts in the disciplines, and interaction with fellow students. (3) To help students to make connections between different disciplines and to reflect creatively on the connections thus effected. (4) To encourage and extend students' powers of original thought and to afford a context for this in the form of discussion papers and dissertations

using bibliographical resources. (5) To encourage the development of a range of generic and transferable skills such as willingness to learn, good communication skills, analytic ability, logical argument, the ability to summarise key issues, problem solving skills, and the ability to work well with others. (6) To encourage students to reflect on the ways in which both academic learning and generic skills relate to the wider society in which they live.

*Honours Course Prescription:* Two 30-credit courses drawn from Theology and Religious Studies honours courses. One 60-credit dissertation

*Course Co-ordinator:* Dr Alastair Hunter

### **4FKJ DIVINITY HONOURS 4H (SINGLE)**

*Credits:* 120 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Religious Studies 1A and 1B; Biblical Studies 1A and 1B; Theology and Church History 1A and 1B; 40 Arts Credits; three Level 2 Theology and Religious Studies modules. All courses at average of grade D with at least one grade C.

*Assessment:* Three pieces of course work 30%; One three hour degree examination 70%

*Degree Examination taken in:* May/June

*Aims:* (1) To provide a wide-ranging core curriculum of courses in the disciplines associated with Theology and Religious Studies at Levels 1 and 2. (2) To enable students to pursue independent study of a chosen selection of the relevant disciplines in depth by means of primary and secondary texts, using original languages where appropriate, discussion with recognised experts in the disciplines, and interaction with fellow students. (3) To help students to make connections between different disciplines and to reflect creatively on the connections thus effected. (4) To encourage and extend students' powers of original thought and to afford a context for this in the form of discussion papers and dissertations using bibliographical resources. (5) To encourage the development of a range of generic and transferable skills such as willingness to learn, good communication skills, analytic ability, logical argument, the ability to summarise key issues, problem solving skills, and the ability to work well with others. (6) To encourage students to reflect on the ways in which both academic learning and generic skills relate to the wider society in which they live.

*Honours Course Prescription:* Two 30-credit courses drawn from Theology and Religious Studies honours courses. One 60-credit dissertation

*Course Co-ordinator:* Prof David Jasper

### **4EXG THEOLOGY AND RELIGIOUS STUDIES 4H (JOINT) M.A.**

*Credits:* 60 *Level:* 4

*When Taught:* Full Session (September - June)

*Timetable:* To be advised

*Requirements of entry:* Two of Biblical Studies 1A and 1B, Theology and Church History 1A and 1B, Religious Studies 1A and 1B, plus two level 2 Divinity courses. All courses at average of grade D with at least one grade C.

*Assessment:* Four papers with course work (30%), 3 hour degree examinations (70%) for each OR three papers as above and a dissertation.

*Degree Examination taken in:* May/June

*Aims:* (1) To provide a wide-ranging core curriculum of courses in the disciplines associated with Theology and Religious Studies at Levels 1 and 2. (2) To enable students to pursue independent study of a chosen selection of the relevant disciplines in depth by means of primary and secondary texts, using original languages where appropriate, discussion with recognised experts in the disciplines, and interaction with fellow students. (3) To help students to make connections between different disciplines and to reflect creatively on the connections thus effected. (4) To encourage and extend students' powers of original thought and to afford a context for this in the form of discussion papers and dissertations using bibliographical resources. (5) To encourage the development of a range of generic and transferable skills such as willingness to learn, good communication skills, analytic ability, logical argument, the ability to summarise key issues, problem solving skills, and the ability to work well with others. (6) To encourage students to reflect on the ways in which both academic learning and generic skills relate to the wider society in which they live.

## Faculty Course Lists - Courses Available for Degree Programmes

The Faculty course lists below give information on courses available for particular degree programmes within those Faculties. Please note that not all Faculties covered by this Catalogue are included in this section. If you require further information, please contact the relevant Faculty Office.

### Courses Available in the Faculty of Arts

#### Designated MA Degrees

*NB:* from time to time, appropriate subjects or courses may be added to those listed as forming the core in each of the degrees below.

Credit-bearing courses from the Department of Adult and Continuing Education may form part of the core of designated degrees as appropriate, e.g. the Popular Music courses 0QC7 and 0QD7 contribute to the core of the Creative and Cultural Studies degree. Students should consult the Chief Adviser of Studies for further information.

#### MA (Ancient Studies)

*The MA (Ancient Studies) aims to enhance students' cultural and historical awareness through the pursuit of studies in a variety of disciplines focused on the ancient civilisations of Europe and the Near East.*

The core subjects for this degree are:

Archaeology  
Civil Law  
Classical Civilisation (Classics)  
Greek (Classical)  
Humanities Computing (up to 2 courses)  
Latin (Humanity)  
Biblical Studies  
Biblical Texts  
Christianity (Level 1 only)  
Classical Hebrew Language  
New Testament Greek  
World Religions 2C (Hinduism)

#### MA (Creative and Cultural Studies)

*The MA (Creative and Cultural Studies) aims to enable students to develop their understanding and appreciation of the performing/visual arts within a broad cultural context.*

The core subjects for this degree are:

Creative Writing (Level 3)  
Film & Television Studies  
History of Art  
Humanities Computing (up to 2 courses)  
Music  
Space, Cyberspace and the Self 3  
Theatre Studies

#### MA (European Civilisation)

*The MA (European Civilisation) aims to enable students to explore the cultural heritage of Modern Europe through selecting courses drawn from a wide variety of disciplines, linked by their common European context.*

The core subjects for this degree are:

Archaeology  
Celtic Civilisation  
Classical Civilisation (Classics)  
Comparative Literature  
Consciousness and Cognition 3  
Creative Writing (Level 3)  
Education  
Film & Television Studies (specified courses)  
History subjects  
History of Art  
Humanities Computing  
Languages (40 credits in one language other than English are compulsory)  
Music  
Literature subjects  
Philosophy  
Slavonic Studies  
Space, Cyberspace and the Self 3  
Theatre Studies  
The Art of Persuasion L3  
Biblical Studies  
Biblical Texts  
Christianity  
Classical Hebrew Language  
New Testament Greek  
World Religions 1A (Judaism, Christianity & Islam) & World Religions 2A (Islam)

The core curriculum for this degree must include (i) at least 40 credits in a language other than English or English Language level 2 (ii) Philosophy and (iii) a subject from the above list which is not a language or Philosophy; the core curriculum must not consist solely of languages and philosophy.

#### MA (Historical Studies)

*The MA (Historical Studies) aims to enable students to pursue a broadly based programme of historical study incorporating topics from a wide range of countries and periods.*

The core subjects for this degree are:

Archaeology  
Celtic Civilisation  
Civil Law  
Classical Civilisation (Classics)  
Economic and Social History  
History of Art  
History Subjects  
Humanities Computing (up to 2 courses)  
Scottish History  
Biblical Studies  
Biblical Texts  
Christianity  
World Religions

At least 80 credits in this degree must be History

courses which means in this case Archaeology or Economic & Social History or one of a selection of courses in Medieval, Early Modern, Modern, American and Scottish History.

### MA (Linguistic Studies)

*The MA (Linguistic Studies) aims to enable students to develop their knowledge of language and their awareness of linguistic and related cultural issues by following a programme which combines the study of a number of different languages.*

The core subjects for this degree are:

Czech  
Gaelic  
English Language  
French  
German  
Greek (Classical)  
Italian  
Latin (Humanity)  
Polish  
Portuguese  
Russian  
Spanish  
Biblical Texts 2A (OT - Hebrew) and Biblical Texts 2B (NT - Greek)  
Classical Hebrew Language  
New Testament Greek

Courses from the core must include at least two and not more than three languages other than English. However, in the case of a student whose native language is not English, English Language may count towards fulfilment of this requirement.

### MA (Literary Studies)

*The MA (Literary Studies) gives students the opportunity to develop their understanding of literature by studying works which may be drawn from a range of national cultures.*

The core subjects for this degree are:

English Language  
English Literature  
Celtic Civilisation  
Classical Civilisation (Classics)  
Comparative Literature  
Creative Writing (Level 3)  
Humanities Computing (up to 2 courses)  
Language courses which include the study of literature  
Scottish Literature  
Slavonic Studies  
The Art of Persuasion L3  
Biblical Studies  
Biblical Texts  
Classical Hebrew Language  
New Testament Greek

### MA (Philosophical Studies)

*The MA (Philosophical Studies) aims to enhance students' awareness of philosophical issues and of their*

*relevance to other disciplines and areas of life.*

The core subjects for this degree are:

Consciousness and Cognition 3  
Education  
Jurisprudence  
Philosophy  
Politics  
Psychology  
Space, Cyberspace and the Self 3  
Biblical Studies  
Biblical Texts  
Christianity  
World Religions

Courses from the core must include at least 80 credits in Philosophy, at least 20 credits of which must be at least at level two. The Level 3 courses in Consciousness and Cognition and Space, Cyberspace and the Self in this case are considered as Philosophy core courses.

### MA (Scottish Studies)

*The MA (Scottish Studies) aims to enable students to enhance their cultural awareness by studying the history, language and civilisation of Scotland, past and present.*

The core subjects for this degree are:

Archaeology of Scotland  
Celtic Civilisation  
English Language 2  
Gaelic  
History 3: Region, Nation, Culture - Scotland and Northern Europe from the 10th to the 20th centuries  
Scottish History  
Scottish Literature  
Christianity 2A (Church in Scotland) & Christianity 2C (Church, Ministry & Worship)

## Schedules A and B for the BD and BD(Min) degrees

### Schedule A

#### Level 1

Hebrew 1  
NT Greek 1  
Biblical Studies 1A: Old Testament  
Biblical Studies 1B: New Testament  
Christianity 1A: Church History  
Christianity 1B: Theology  
World Religions 1A: Judaism, Christianity, Islam  
World Religions 1B: Eastern Religions

#### Level 2

Biblical Studies 2A: OT/Tanakh (English)  
Biblical Studies 2A: OT/Tanakh (Hebrew)  
Biblical Studies 2B: NT Text (English)  
Biblical Studies 2B: NT Text (Greek)  
Christianity 2A: Church in Scotland  
Christianity 2B: Theology and Ethics  
Christianity 2C: Church, Ministry and Sacraments  
World Religions 2A: Islam

World Religions 2B: Buddhism

**Level 3**

Wisdom

Old Testament Texts (English)

Feminist Biblical Interpretation

Early Church History

Sufism

Practical Theology

30 credit Dissertation (level 3)

60 credit Dissertation (General)

**Schedule B**

Biblical Studies 1A: Old Testament/Tanakh (8WUFU)

Biblical Studies 1B: New Testament (0HTU)

Christianity 1A: Church History (9GPU)

Christianity 1B: Theology (9GRU)

World Religions 1A: Judaism, Christianity & Islam (8VCU)

World Religions 1B: Eastern Religions (8VDU)

**Courses Available in the Faculty of Law, Business and Social Sciences**

**Bachelor of Accountancy and Law**

**List A (compulsory) - Ordinary**

Business Law 1 (20 credits)

Business Statistics 2 (15 credits)

Commercial Law for Business (20 credits)

Finance 1 (20 credits)

Financial Accounting 1 (20 credits)

Financial Accounting 2 (20 credits)

Introduction to Business Statistics (15 credits)

Management Accounting 1 (20 credits)

Management Accounting 2 (20 credits)

Sources and Institutions in Scots Law (40 credits)

Taxation (30 credits)

**List B (optional) - Ordinary**

Accounting and Business Ethics (15 credits)

Accounting for Management Control (15 credits)

Accounting Theory and Policy (15 credits)

Advanced Financial Accounting Practice (15 credits)

Auditing Theory and Practice (15 credits)

Capital Markets Theory (15 credits)

Contemporary Financial Reporting Issues (15 credits)

European Union Law (10 credits)

Finance 2 (15 credits)

Financial Markets and Financial Institutions (15 credits)

Financial Statement Analysis (15 credits)

Information and Computer Systems (20 credits)

International Financial Accounting (15 credits)

International Financial Management (15 credits)

International Private Law 2 (20 credits)

Labour Law (20 credits)

Law and Government (20 credits)

Managerial Accounting and Organisational Behaviour

(15 credits)

Property Law (40 credits)

Social Accounting, Reporting and Finance (15 credits)

Social, Ethical and Environmental Accountability (15 credits)

**List C (optional) - Ordinary**

List C consists of any course included in the *Undergraduate Course Catalogue*, other than those specified in Lists A, B, D or E.

**List D (optional) - Honours courses Accountancy**

Accounting and Literature (15 credits)

Accounting for Management Control (15 credits)

Accounting Theory and Policy (15 credits)

Advanced Financial Accounting Practice (15 credits)

Auditing Theory and Practice (15 credits)

Capital Markets Theory (15 credits)

Contemporary Financial Reporting Issues (15 credits)

Financial Markets and Financial Institutions (15 credits)

Financial Statement Analysis (15 credits)

International Financial Accounting (15 credits)

International Financial Management (15 credits)

Management Accounting and Organisational Behaviour (15 credits)

Research Methodology (Accountancy) (15 credits)

Social Accounting, Reporting and Finance (15 credits)

Social, Ethical and Environmental Accountability (15 credits)

**List E (optional Honours courses Law)**

*Level 3*

Anti-Discrimination Law in Practice (30 credits)

Civil Jurisdiction and Evidence (30 credits)

Commercial Banking (30 credits)

Comparative Law (30 credits)

European Legal History (30 credits)

Fundamental Concepts of Private Law (30 credits)

Human Rights and Scots Law (30 credits)

International Family Law (30 credits)

Intellectual Property Law (30 credits)

Institutions of International Law (30 credits)

Institutions and Judicial Control of the EU (30 credits)

Legal Theory (30 credits)

*Level 4*

Administrative Law (30 credits)

Child Law (30 credits)

Company Law (30 credits)

Comparative Law (30 credits)

Computers and the Law (30 credits)

Constitutional Law (30 credits)

Conveyancing-Commercial Missives (30 credits)

Criminal Law: History and Theory (30 credits)

Environmental Law (30 credits)

European Human Rights Project (30 credits)

European Rules on Competition (30 credits)

European Social Law (30 credits)

Forensic Investigation (30 credits)



Forensic Medical Investigation (30 credits)  
 Genetics and the Law (30 credits)  
 History of Scots Law (30 credits)  
 Human Reproduction and the Law (30 credits)  
 Immigration and Asylum Law (30 credits)  
 International Criminal Law (30 credits)  
 International Economic Law (30 credits)  
 International Private Law (30 credits)  
 International Law and Problems of the Contemporary World (30 credits)  
 International Taxation (30 credits)  
 Law and Ethics (30 credits)  
 Law and Social Theory (30 credits)  
 Law in the Roman World (30 credits)  
 Law, Justice and Morality (30 credits)  
 Legal Aspects of European Ext Relations (30 credits)  
 Medico-Legal Problems (30 credits)  
 Obligations (30 credits)  
 Peoples, Indigenous Peoples and Minorities (30 credits)  
 Prejudice, Discrimination and the Law (30 credits)  
 Professional Negligence (30 credits)  
 Property Law (30 credits)  
 Public Procurement (30 credits)  
 Reception of Laws (30 credits)  
 Socio-Legal Perspectives on Criminal Law (30 credits)  
 The Politics of Labour Law (30 credits)  
 United Nations Law (30 credits)

Any other Law Honours option for which the student holds the necessary prerequisites.

Not all options will be available every session.

## Courses Available in the Faculties of Science

The courses available in the Faculties of Science in session 2006-2007 are listed below, together with the level at which each course is offered and the number of credits which each course is worth.

Further details of each course are given in this Catalogue, under departmental entries, including a description of the syllabus, the course code for matriculation purposes, the name of the organising department(s), the course timetable, the methods of assessment and any pre-requisites or co-requisites or other conditions of entry.

*N.B.* \* available only to students admitted in session 2002-2003 or earlier.

### ANATOMY

Anatomy 3H (Level: 3H; Credits: 120)  
 Anatomy 4H (Level: 4H; Credits: 120)  
 Anatomy Work Placement Year (Credits: 120)  
 Anatomy (Level: 4M; Credits: 120)

### ANIMAL BIOLOGY

Animal Biology 3D (Level: 3; Credits: 80)

### APPLIED MATHEMATICS

See under *Mathematics*

### ARCHAEOLOGY

Archaeology 1X Introduction to Archaeological Practice (Level: 1; Credits: 20)  
 Archaeology 1Y The Archaeology of Scotland (Level: 1; Credits: 20)  
 Archaeology 1Z Archaeology in Contemporary Society (Level: 1; Credits: 20)  
 Archaeology 2G Field Archaeology in Theory and Practice (Level: 2; Credits: 20)  
 Archaeology 2H Analytical Archaeology (Level: 2; Credits: 20)  
 Archaeology 2J Archaeology of Europe and the Mediterranean (Level: 2; Credits: 20)  
 Archaeological Studies 3 (Level: 3; Credits: 80)  
 Archaeology 3H (Single) (Level: 3H; Credits: 120)  
 Archaeology 4H (Single) (Level: 4H; Credits: 120)  
 Archaeology 3H (Combined) (Level: 3H; Credits: 60)  
 Archaeology 4H (Combined) (Level: 4H; Credits: 60)

### ASTRONOMY

Astronomy 1X (Level: 1; Credits: 20)  
 Astronomy 1Y (Level: 1; Credits: 20)  
 Astronomy 2Z (Level: 2; Credits: 30)  
 Astronomy 3P (Level: 3; Credits: 60)  
 Astronomy 3H (Combined) (Level: 3H; Credits: 60)  
 Astronomy 4H (Combined) (Level: 4H; Credits: 60)  
 Astronomy 3M (Combined) (Level: 3M; Credits: 75)  
 Astronomy 4M (Combined) (Level: 4M; Credits: 75)  
 Astronomy 3M\* (Combined) (Level: 3M; Credits: 80)  
 Exploring the Cosmos 1X (Level: 1; Credits: 20)  
 Exploring the Cosmos 1Y (Level: 1; Credits: 20)  
 Exploring the Cosmos 2X (Level: 2; Credits: 10)  
 Exploring the Cosmos 2Y (Level: 2; Credits: 10)

### BIOCHEMISTRY

Biochemistry 3H (Level: 3H; Credits: 120)  
 Biochemistry 4H (Level: 4H; Credits: 120)  
 Biochemistry Work Placement Year (Credits: 120)  
 Biochemistry 4M (Level: 4M; Credits: 120)

### BIOMEDICAL AND LIFE SCIENCES

Biology 1A (Level: 1; Credits: 20)  
 Biology 1B (Level: 1; Credits: 20)  
 Communicating Science (Level: 1; Credits: 20)  
*Level 2 Courses: First Semester*  
 1a Basic Genetics (Level: 2; Credits: 10)  
 2a Forensic Bioscience (Level: 2; Credits: 10)

- 3a Human Physiology (Level: 2; Credits: 10)  
 4a Animal Diversity (Level: 2; Credits: 10)  
 5a Proteins: Structure & Function (Level: 2; Credits: 10)  
 6a Nucleic Acids: Structure & Function (Level: 2; Credits: 10)  
 7a Human Form and Function (Level: 2; Credits: 10)  
 8a Ecology (Level: 2; Credits: 10)  
 9a Micro-organisms (Level: 2; Credits: 10)  
 10a Building an Organism: Cells, Genes and Development (Level: 2; Credits: 10)  
 11a Biological Clocks (Level: 2; Credits: 10)  
 12a Plants, Pollution and Global Change (Level: 2; Credits: 10)  
 13a Immunology (Level: 2; Credits: 10)  
*Level 2 Courses: Second Semester*  
 1b Molecular Genetics (Level: 2; Credits: 10)  
 2b Evolutionary Biology (Level: 2; Credits: 10)  
 3b Infection & Immunity (Level: 2; Credits: 10)  
 5b Plant Science: Food and Famine (Level: 2; Credits: 10)  
 6b Energy Metabolism (Level: 2; Credits: 10)  
 7b Drugs & Disease (Level: 2; Credits: 10)  
 8b Cells and Tissues in Health & Disease (Level: 2; Credits: 10)  
 9b Reproduction and Development (Level: 2; Credits: 10)  
 10b Neuroscience and Behaviour (Level: 2; Credits: 10)  
 11b Practical Microbiology (Level: 2; Credits: 10)  
 14b Biometrics (Level: 2; Credits: 10)  
 15b Extreme Biology (Level: 2; Credits: 10)  
 16b Physical Principles of Biological Processes (Level: 2; Credits: 10)  
 17b Conservation Biology (Level: 2; Credits: 10)  
 18b Exercise Science (Level: 2; Credits: 10)

*Level 3*

Essential Molecular Biology 3<sup>2</sup> (Level: 3; Credits: 60)

**BIOMEDICAL SCIENCES**

- Biomedical Sciences 3H (Level: 3H; Credits: 120)  
 Biomedical Sciences 4H (Level: 4H; Credits: 120)  
 Biomedical Sciences Work Placement Year (Credits: 120)  
 Biomedical Sciences 4M (Level: 4M; Credits: 120)

**BIOMOLECULAR SCIENCES**

Biomolecular Sciences 3D (Level: 3; Credits: 80)

**BIOTECHNOLOGY**

- Biotechnology 3H (Level: 3H; Credits: 120)  
 Biotechnology 4H (Level: 4H; Credits: 120)  
 Biotechnology Work Placement Year (Credits: 120)  
 Biotechnology 4M (Level: 4M; Credits: 120)

**CHEMICAL PHYSICS**

- Chemical Physics 3 (Level: 3; Credits: 120)  
 Chemical Physics 3H (Level: 3H; Credits: 120)  
 Chemical Physics 4H (Level: 4H; Credits: 120)  
 Chemical Physics 3M (Level: 3M; Credits: 120)  
 Chemical Physics 4M (Level: 4M; Credits: 150)  
 Chemical Physics 3M\* (Level: 3M; Credits: 160)  
 Chemical Physics Work Placement Year (Credits: 120)

**CHEMISTRY**

- Chemistry 1 (Level: 1; Credits: 40)  
 Chemistry 2X (Level: 2; Credits: 30)  
 Chemistry 2Y (Level: 2; Credits: 30)  
 Environmental Chemistry 2A (Level: 2; Credits: 30)  
 Environmental Chemistry 2B (Level: 2; Credits: 30)  
 Chemistry 3 (Level: 3; Credits: 120)  
 Chemistry 3H (Single) (Level: 3H; Credits: 120)  
 Chemistry 4H (Single) (Level: 4H; Credits: 120)  
 Chemistry 3H (Combined) (Level: 3H; Credits: 60)  
 Chemistry 4H (Combined) (Level: 4H; Credits: 60)  
 Chemistry 3M (Single) (Level: 3M; Credits: 140)  
 Chemistry 3M (Combined) (Level: 3M; Credits: 60)  
 Chemistry Work Placement Year (Credits: 120)  
 Chemistry European Placement Year (Credits: 120)  
 Chemistry 4M (Single) (Level: 4M; Credits: 160)  
 Chemistry 4M (Combined) (Level: 4M; Credits: 60)  
 Chemistry 5M (Combined) (Level: 5M; Credits: 60)  
 Chemistry with Forensic Studies 3 (Level: 3; Credits: 120)  
 Chemistry with Forensic Studies 3H (Level: 3H; Credits: 120)  
 Chemistry with Forensic Studies 3M (Level: 3M; Credits: 140)  
 Chemistry with Medicinal Chemistry 3 (Level: 3; Credits: 120)  
 Chemistry with Medicinal Chemistry 3H (Level: 3H; Credits: 120)  
 Chemistry with Medicinal Chemistry 4H (Level: 4H; Credits: 120)  
 Chemistry with Medicinal Chemistry 3M (Level: 3M; Credits: 140)  
 Chemistry with Medicinal Chemistry Work Placement Year (Credits: 120)  
 Chemistry with Medicinal Chemistry European Placement Year (Credits: 120)  
 Chemistry with Medicinal Chemistry 4M (Level: 4M; Credits: 160)  
 Environmental Chemistry 3 (Level: 3; Credits: 120)  
 Environmental Chemistry 3H (Level: 3H; Credits: 120)  
 Environmental Chemistry 4H (Level: 4H; Credits: 120)  
 Environmental Chemistry 4M (Level: 4M; Credits: 120)  
 Environmental Chemistry Work Placement Year (Credits: 120)

**CHEMISTRY WITH MEDICINAL CHEMISTRY**

See under *Chemistry*

<sup>2</sup>available only to students taking a combined designated degree in Biology and Chemistry

**COMPUTING SCIENCE**

Computing Science 1P Programming (Level: 1; Credits: 20)

Computing Science 1Q Fundamentals (Level: 1; Credits: 20)

Computing Science 2P Java Programming 2 (Level: 2; Credits: 10)

Computing Science 2R Algorithmic Foundation 2 (Level: 2; Credits: 10)

Computing Science 2T Computer Systems 2 (Level: 2; Credits: 10)

Computing Science 2U Information Management 2 (Level: 2; Credits: 10)

Computing Science 2X Algorithms and Data Structures 2 (Level: 2; Credits: 10)

Computing Science 2Y Object-oriented Software Engineering 2 (Level: 2; Credits: 10)

Computing Science 3P Algorithmics (Level: 3; Credits: 10)

Computing Science 3Q Advanced Programming (Level: 3; Credits: 10)

Computing Science 3S Operating Systems (Level: 3; Credits: 10)

Computing Science 3T Networked Systems Architecture (Level: 3; Credits: 10)

Computing Science 3U Database Systems (Level: 3; Credits: 10)

Computing Science 3W Interactive Systems (Level: 3; Credits: 10)

Computing Science 3X Professional Software Development (Level: 3; Credits: 20)

Computing Science 3Y Team Project (Level: 3; Credits: 20)

Computing Science 3Z Programming Languages (Level: 3; Credits: 10)

Computing Science C (Level: 3; Credits: 10)

Computing Science C3 for ESE (Level: 3)

Computing Science Software Engineering Work Placement (Credits: 10)

Computing Science 3H (Single) (Level: 3H; Credits: 120)

Computing Science 4H (Single) (Level: 4H; Credits: 120)

Computing Science 3H (Combined) (Level: 3H; Credits: 60)

Computing Science 4H (Combined) (Level: 4H; Credits: 60)

Computing Science 4M (Single) (Level: 4M; Credits: 120)

Computing Science 5M (Single) (Level: 5M; Credits: 130)

Computing Science 4M (Combined) (Level: 4M; Credits: 60)

Computing Science 5M (Combined) (Level: 5M; Credits: 60)

See also *Mathematical Sciences*

**EARTH SCIENCE**

Earth Science 1X: Introduction to the Earth: Minerals, Rocks, Structures 1 (Level: 1; Credits: 20)

Earth Science 1Y: Evolution of the Earth: Life and Environments 1 (Level: 1; Credits: 20)

Earth Science 2P The Solid Earth (Level: 2; Credits: 20)

Earth Science 2Q Palaeobiology (Level: 2; Credits: 10)

Earth Science 2R Sediments and Stratigraphy (Level: 2; Credits: 10)

Earth Science 2U Structure Maps and Exploration (Level: 2; Credits: 20)

Earth Science 3E (Level: 3; Credits: 120)

Earth Science 3H (Single) (Level: 3H; Credits: 120)

Earth Science 4H (Single) (Level: 4H; Credits: 120)

Earth Science 3H (Combined) (Level: 3H; Credits: 60)

Earth Science 4H (Combined) (Level: 4H; Credits: 60)

**ELECTRONIC ENGINEERING**

Electronic Engineering 1X (Level: 1; Credits: 20)

Electronic Engineering 1Y (Level: 1; Credits: 20)

Analogue Electronics 2 (Level: 2; Credits: 10)

Digital Electronics 2 (Level: 2; Credits: 10)

Electrical Circuits 2 (Level: 2; Credits: 10)

Electronic Design Project 2 (Level: 2; Credits: 10)

Embedded Processors 2 (Level: 2; Credits: 10)

**ELECTRONIC AND SOFTWARE ENGINEERING**

Electronic and Software Engineering 3H (Level: 3H; Credits: 120)

Electronic and Software Engineering 4H (Level: 4H; Credits: 120)

**ENVIRONMENTAL BIOGEOCHEMISTRY**

Environmental Biogeochemistry 3H (Level: 3H; Credits: 120)

Environmental Biogeochemistry 4H (Level: 4H; Credits: 120)

**ENVIRONMENTAL CHEMISTRY**

See under *Chemistry*

**ENVIRONMENTAL SCIENCE**

Environmental Science 1 (Level: 1; Credits: 40)

**EXPLORING THE COSMOS**

See under *Astronomy*

**GENETICS**

Genetics 3H (Level: 3H; Credits: 120)

Genetics 4H (Level: 4H; Credits: 120)

Genetics Work Placement Year (Credits: 120)

Genetics 4M (Level: 4M; Credits: 120)

### **GEOGRAPHIC INFORMATION AND MAPPING SCIENCES**

Geographic Information and Mapping Sciences 4H (Level: 4; Credits: 120)

### **GEOGRAPHY**

Geography 1 (Level: 1; Credits: 40)  
Geography 2 (Level: 2; Credits: 60)  
Geography 3B (Level: 3; Credits: 90)  
Geography 3C (Level: 3; Credits: 120)  
Geography 3H (Single) (Level: 3H; Credits: 120)  
Geography 4H (Single) (Level: 4H; Credits: 120)  
Geography 3H (Combined) (Level: 3H; Credits: 60)  
Geography 4H (Combined) (Level: 4H; Credits: 60)

### **HUMAN BIOLOGY**

Human Biology 3D (Level: 3; Credits: 80)

### **IMMUNOLOGY**

Immunology 3H (Level: 3H; Credits: 120)  
Immunology 4H (Level: 4H; Credits: 120)  
Immunology Work Placement Year (Credits: 120)  
Immunology 4M (Level: 4M; Credits: 120)

### **INFECTION BIOLOGY**

Infection Biology 3D (Level: 3; Credits: 80)  
Infection Biology 3E (Level: 3; Credits: 80)

### **MARINE & FRESHWATER BIOLOGY**

Marine & Freshwater Biology 3H (Level: 3H; Credits: 120)  
Marine & Freshwater Biology 4H (Level: 4H; Credits: 120)  
Marine & Freshwater Biology Work Placement Year (Credits: 120)  
Marine & Freshwater Biology 4M (Level: 4M; Credits: 120)

### **MATHEMATICAL SCIENCES**

Mathematical Sciences 3H (Level: 3H; Credits: 120)  
Mathematical Sciences 4H (level: 4H; Credits: 120)

### **MATHEMATICS**

Mathematics Skills Test (Level: 1; Credits: 0)  
Mathematics 1R (Level: 1; Credits: 20)  
Mathematics 1S (Level: 1; Credits: 20)  
Mathematics 1T (Level: 1; Credits: 20)  
Mathematics 1X (Level: 1; Credits: 20)  
Mathematics 1Y (Level: 1; Credits: 20)  
Mathematics 2R Algebra I (Level: 2; Credits: 10)  
Mathematics 2U Analysis I (Level: 2; Credits: 10)  
Mathematics 2X Calculus I (Level: 2; Credits: 10)  
Mathematics 2W Linear Algebra I (Level: 2; Credits: 10)  
Mathematics 2P Graphs and Networks (Level: 2; Credits: 10)  
Mathematics 2L Linear Modelling (Level: 2; Credits: 10)  
Mathematics 2F Financial Modelling (Level: 2; Credits: 10)  
Mathematics 2S Algebra II (Level: 2; Credits: 10)  
Mathematics 2V Analysis II (Level: 2; Credits: 10)  
Mathematics 2Y Calculus II (Level: 2; Credits: 10)  
Mathematics 2Z Linear Algebra II (Level: 2; Credits: 10)  
Mathematics 2Q Groups and Symmetry (Level: 2; Credits: 10)  
Mathematics 2N Number Theory and Cryptography (Level: 2; Credits: 10)  
Mathematics 2G Mechanical Modelling (Level: 2; Credits: 10)  
Mathematics 3P Real and Complex Variables (Level: 3; Credits: 20)  
Mathematics 3Q Algebra and Number Theory (Level: 3; Credits: 20)  
Mathematics 3R Finite Mathematics (Level: 3; Credits: 20)  
Mathematics 3S Differential Equations (Level: 3; Credits: 20)  
Mathematics 3H (Single) (Level: 3H; Credits: 120)  
Mathematics 4H (Single) (Level: 4H; Credits: 120)  
Mathematics 3H (Combined) (Level: 3H; Credits: 60)  
Mathematics 4H (Combined) (Level: 4H; Credits: 60)  
Mathematics 3M (Single) (Level: 3M; Credits: 120)  
Mathematics 4M (Single) (Level: 4M; Credits: 120)  
Mathematics 3M (Combined) (Level: 3M; Credits: 60)  
Mathematics 4M (Combined) (Level: 4M; Credits: 60)  
Applied Mathematics 3H (Single) (Level: 3H; Credits: 120)  
Applied Mathematics 4H (Single) (Level: 4H; Credits: 120)  
Applied Mathematics 3H (Combined) (Level: 3H; Credits: 60)  
Applied Mathematics 4H (Combined) (Level: 4H; Credits: 60)  
Applied Mathematics 3M (Single) (Level: 3M; Credits: 120)  
Applied Mathematics 4M (Single) (Level: 4M; Credits: 120)  
Applied Mathematics 3M (Combined) (Level: 3M; Credits: 60)  
Applied Mathematics 4M (Combined) (Level: 4M; Credits: 60)  
See also *Mathematical Sciences*

**MEDICAL BIOCHEMISTRY**

Medical Biochemistry 3H (Level: 3H; Credits: 120)  
 Medical Biochemistry 4H (Level: 4H; Credits: 120)  
 Medical Biochemistry Work Placement Year (Credits: 120)  
 Medical Biochemistry 4M (Level: 4M; Credits: 120)

**MICROBIOLOGY**

Microbiology 3H (Level: 3H; Credits: 120)  
 Microbiology 4H (Level: 4H; Credits: 120)  
 Microbiology Work Placement Year (Credits: 120)  
 Microbiology 4M (Level: 4M; Credits: 120)

**MOLECULAR AND CELLULAR BIOLOGY**

Molecular and Cellular Biology 3H (Level: 3H; Credits: 120)  
 Molecular and Cellular Biology 4H (Level: 4H; Credits: 120)  
 Molecular and Cellular Biology Work Placement Year (Credits: 120)  
 Molecular and Cellular Biology 4M (Level: 4M; Credits: 120)

**NEUROSCIENCE**

Neuroscience 3H (Level: 3H; Credits: 120)  
 Neuroscience 4H (Level: 4H; Credits: 120)  
 Neuroscience Work Placement Year (Credits: 120)  
 Neuroscience 4M (Level: 4M; Credits: 120)

**PARASITOLOGY**

Parasitology 3H (Level: 3H; Credits: 120)  
 Parasitology 4H (Level: 4H; Credits: 120)  
 Parasitology Work Placement Year (Credits: 120)  
 Parasitology 4M (Level: 4M; Credits: 120)

**PHARMACOLOGY**

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